

# 2008 Statewide Emergency Shelter Plan

January 31, 2008



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Governor



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## EXECUTIVE SUMMARY

Annually the State of Florida is subject to the potentially catastrophic impact of a major hurricane striking a heavily-populated area in the State. Shelter surveys and evacuation studies have determined that regional hurricane shelter space deficits can have a significant impact on the ability of local agencies to protect citizens when a major hurricane threatens or strikes Florida.

Pursuant to ss. 1013.372(2) and 252.385(2)(b), Florida Statutes, the Division of Emergency Management (Division) is responsible for preparing a *Statewide Emergency Shelter Plan* (the Plan). The Plan is a guide for local emergency planning. It also provides consultative assistance to school districts contemplating construction of educational facilities and the need to provide public shelter space within those facilities. The Plan is submitted to the Governor and Cabinet for approval by January 31 of each even-numbered year. The Plan is subject to the requirements in s. 1013.37(2) and shall identify the general location and square footage of special needs shelters, by regional planning council region, during the next 5 years. The plan shall also include information on the availability of shelters that accept pets. The Department of Health shall assist the Division in determining the estimated need for special needs shelter space and the adequacy of facilities to meet the needs of persons with special needs based on information from the registries of persons with special needs and other information. In accordance with the statute, the Plan must:

- Identify the general location and square footage of existing shelters by Regional Planning Council regions;
- Identify the general location and square footage of needed shelters by Regional Planning Council regions for the next five years;
- Identify the types of facilities which should be constructed to comply with the public shelter design criteria; and
- Recommend an appropriate and available source of funding for the additional cost of constructing emergency shelters within those public facilities.

Table EX-1 provides a regional summary of the projected regional hurricane shelter space demands between 2008 and 2013 and indicate whether or not there is a surplus or deficit in the region. At this time, only five (5) RPC regions have a surplus of hurricane shelter space in 2008 (West Florida/Region 1, Apalachee/Region 2, East Central Florida/Region 6, Treasure Coast/Region 10 and South Florida/Region 11). Based upon currently available information, surpluses will continue in RPC Regions 1, 2, 6, and 10 through 2013; RPC Region 11 will experience a deficit in 2013, but only if there are no additional hurricane shelter spaces added to the inventory. All other regions have hurricane shelter space deficits, and per ss. 1013.372(1) and 1013.74(4), Florida Statutes, their respective district school boards, community colleges and universities are required to construct all new educational facilities in compliance with the public shelter design criteria.

**Table EX-1.**  
**Regional Summaries of Hurricane Shelter Demand, Capacities, and Deficits/Surpluses for 2008 through 2013**  
**General Population and Special Needs Shelters**

RPC Region	RPC Region Name	General Population Shelter Demand and Capacities					Special Needs Shelter Demand and Capacities				
		2008 Cat. 5 Shelter Demand, persons	2013 Cat. 5 Shelter Demand, persons	2008 Shelter Capacity, persons	2008 Shelter Surplus/ (Deficit), persons	2013 Shelter Surplus/ (Deficit), persons	2008 Cat. 5 Shelter Demand, clients	2013 Cat. 5 Shelter Demand, clients	2008 Shelter Capacity, clients	2008 Shelter Surplus/ (Deficit), clients	2013 Shelter Surplus/ (Deficit), clients
1	West Florida (WF)	53,895	59,916	61,218	7,323	1,302	3,149	3,503	2,851	(298)	(652)
2	Apalachee (APAL)	20,985	22,786	30,676	9,691	7,890	987	1,085	914	(73)	(171)
3	North Central Florida (NCF)	32,642	35,323	27,469	(5,173)	(7,854)	3,149	3,293	1,160	(1,989)	(2,133)
4	Northeast Florida (NEF)	119,794	132,178	78,080	(41,714)	(54,098)	3,979	4,965	2,673	(1,306)	(2,292)
5	Withlacoochee (WITH)	43,639	49,226	23,674	(19,965)	(25,552)	3,880	4,916	1,703	(2,177)	(3,213)
6	East Central Florida (ECF)	95,059	109,034	157,056	61,997	48,022	8,151	9,096	6,656	(1,495)	(2,440)
7	Central Florida (CF)	191,285	209,840	44,052	(147,233)	(165,788)	4,349	4,838	734	(3,615)	(4,104)
8	Tampa Bay (TB)	339,058	370,186	196,734	(142,324)	(173,452)	10,605	11,123	5,862	(4,743)	(5,261)
9	Southwest Florida (SWF)	278,462	319,775	110,209	(168,253)	(209,566)	6,933	7,805	7,098	165	(707)
10	Treasure Coast (TC)	70,732	79,948	94,422	23,690	14,474	1,852	2,140	2,503	651	363
11	South Florida (SF)	124,804	133,045	132,279	7,475	(766)	1,512	1,512	6,346	4,834	4,834
	<b>TOTALS</b>	1,370,355	1,521,257	955,869	(414,486)	(565,388)	48,546	54,276	38,500	(10,046)	(15,776)

With publication of the 2008 Plan, the Division is also monitoring the status of the statewide inventory of Special Needs Shelters (SpNS). Historically, SpNS's have been included in total population hurricane shelter demand estimates, hurricane shelter capacities and surplus/deficit results. Given the findings from the 2004 hurricane season where about half of the designated SpNS's were located in facilities that did not meet the same minimum hurricane safety criteria as general population shelters, the Division was asked to separate the two shelter types (general population and special-needs) and monitor progress towards improving SpNS hurricane safety, client capacity and provision of emergency power supported air-conditioning. As demonstrated in Table EX-1, eight (8) regions currently have client space deficits and a ninth region will have a deficit in 2013 if no additional space is created.

The types of public facilities that should be constructed to comply with the public shelter design criteria include all facilities that are subject to be used as public hurricane shelters under the authority of section 252.385(4)(a), Florida Statutes; that is, public schools, community colleges, universities, and other facilities owned by state and local governments. When appropriately located, designed and constructed, the following types of facilities are normally considered suitable for use as public hurricane shelters:

Community and civic centers, meeting halls, gymnasiums, auditoriums, cafeterias and open floor multipurpose facilities, exhibition halls, sports arenas, field houses, conference and training centers, certain classroom buildings, and other public assembly facilities.

There are only so many types of facilities that can be used as public shelters. Those types of facilities that are not appropriate for use as public shelters are due to the following elements:

- location (facilities within Category 1, 2 or 3 hurricane evacuation zones, and possibly Category 4 and 5, flooding isolation, presence of certain hazardous materials, low evacuation demand, etc.),
- size (e.g., less than 2,000 square feet of usable floor area, etc.), or
- other characteristics (incompatibility of facility's normal use or availability with mass care function, long-range planning considerations, etc.).

During preparation of this Plan, the Division conducted a survey to estimate the compliance rate of school districts adhering to the statutory and code requirements of the public shelter design criteria for new school facilities construction. The Division wanted to determine if compliance with the existing law had improved since 2001. In 2001, the State Auditor General made a finding that of the new schools reviewed, only 65 percent appeared to comply with the law. See State Auditor General's Report No. 02-055 (2001). According to the Florida Inventory of School Houses (FISH) data, there were 1,773 new school buildings constructed between 2000 and 2006, with an estimated total net usable floor area of 47,389,656 square feet. The Division recognizes 406 facilities (13,286,733 square feet) as meeting the requirements of the law (i.e., EHPA's), and another 449 buildings (12,128,584 square feet) were lawfully exempt for statutory and code accepted causes. Therefore, only about 855 of 1,773 new buildings complied with statutory and code EHPA requirements.

Since Regional Planning Council (RPC) Region 11 (Miami-Dade, Broward, and Monroe Counties) had a surplus in 2004, they were exempted from the EHPA requirement, and were excluded from this update.

Since the code requirements are based on achieving a minimum quantity of floor area square footage, the square footage is the most reliable means of estimating compliance. The combined floor area square footage of the non-compliant buildings is 21,974,339 square feet, or a non-compliance rate of about 46 percent. The result of the survey indicates that compliance rate, overall, has not significantly improved. There was sufficient square footage in the non-compliant new buildings to have substantially reduced Florida's current hurricane shelter space deficit. Clearly, the State needs to improve compliance with the EHPA statutory and code requirements.

District school boards have generally been reporting that the construction cost premium for incorporating the criteria is about three (3) to six (6) percent. This is a relatively small, but not necessarily insignificant, cost that must be borne by state and local agencies. Therefore, s. 1013.372(2), F.S. requires that the Division recommend an appropriate and available source of funding for the additional cost of constructing emergency shelters. The Division recommends use of existing state capital outlay funds since there is no dedicated state source of funding to support new hurricane shelter construction.

The Public Education Construction Outlay (PECO) is the only existing state capital outlay fund, available to support new hurricane shelter construction. PECO funds are earmarked for site acquisition and improvements necessary to accommodate buildings, equipment, and other structures of district school boards, community colleges and universities. The Department of Education has distributed about \$1,848,282,746 in new construction funds to district school boards since promulgation of the public shelter requirement into code in 1997. Other state sources of school construction funding have included General Revenue and Lottery funds. From time to time, Federal and State mitigation-related funds may be available to support the construction cost premium for improving hurricane resistance **above** minimum code requirements for new facilities. However, the mitigation funds are not considered normally "available" for most new construction projects, since their grant cycles are often associated with disaster declarations.

The Division has statutory responsibility and authority to administer a statewide program to eliminate the deficit of "safe" hurricane shelter space. To ensure consistency with state and national standards, guidelines and "best practices," the Division has recognized *Standards for Hurricane Evacuation Shelter Selection* (ARC 4496) as the minimum hurricane shelter survey and evaluation criteria. Therefore, at a minimum, meeting ARC 4496 criteria is a required condition for a public facility to be described as "safe", "suitable" or "appropriate" for use as a public hurricane shelter.

To accomplish this objective, the Division has implemented a multifaceted program. This program includes: 1) survey of existing buildings, both public and private,



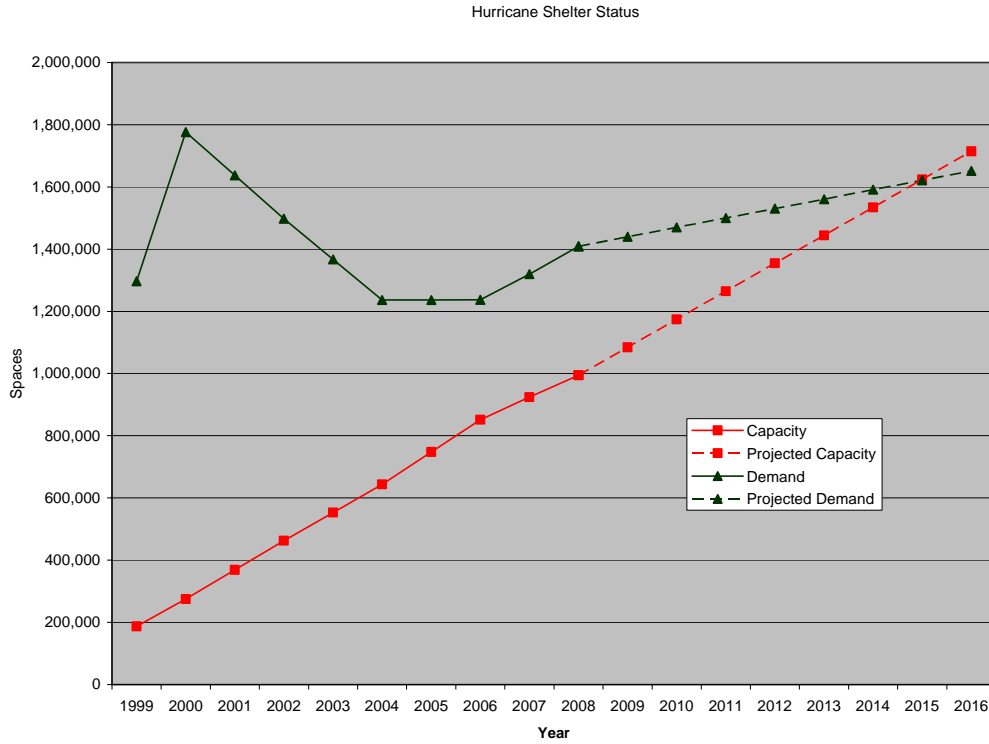
to identify suitable shelter capacity; 2) where cost effective (and practical), support mitigation and retrofitting of existing facilities to increase shelter capacity; 3) construction of new facilities to meet the public shelter design criteria; 4) shelter demand reduction through improved hurricane hazard models and behavioral studies; and 5) improve public information/education to reduce unnecessary “shadow” evacuations.

Since 1995, the Division’s hurricane shelter survey and retrofit program has identified, created or otherwise documented 530,323 hurricane shelter spaces that meet ARC 4496 guidelines. Public school new construction programs have created an additional 464,046 hurricane shelter spaces. Therefore, by the 2008 hurricane season, Florida will have a total of about 994,369 shelter spaces that meet ARC 4496 guidelines. The demand for hurricane shelter space has also been significantly reduced over the past seven years due to improvements in public information, storm hazard models and more accurate census data. Since 2000, Florida’s deficit of hurricane shelter space has been reduced by about 72 percent, and based on current trends the Division estimates that about 90,000 spaces will be added to the state’s inventory each year. As demonstrated in Figure EX-1, the Division estimates that the hurricane shelter space deficit may be eliminated by 2015.

Since publication of the *2000 Statewide Emergency Shelter Plan*, Florida now has 23 counties with demonstrable surpluses of hurricane shelter space. The counties with surpluses include: Bay, Brevard, Broward, Escambia, Gilchrist, Indian River, Lake, Leon, Levy, Liberty, Madison, Manatee, Martin, Miami-Dade, Osceola, Palm Beach, St. Johns, St. Lucie, Santa Rosa, Seminole, Taylor, Union and Washington. Also, five regions have a demonstrable surplus of hurricane shelter space

As Florida’s hurricane vulnerable population continues to grow, it is vitally important that construction of hurricane shelters and retrofitting of existing buildings be considered a priority. If this state is to meet its goal of eliminating the hurricane shelter space deficit, the incorporation of the public shelter design criteria into new construction, improvements in EHPA compliance by school districts, retrofitting of suitable existing buildings and continued use of new technologies must continue to be accomplished. The overall result of full implementation of the Division’s shelter deficit reduction strategy is a greater level of preparedness, a more efficient capability for responding to incidents and a greater ability to meet the needs of disaster victims.

**Figure EX-1. Projected Hurricane Shelter Deficit Reduction**



Note: The “spike” in shelter demand between 1999 and 2000 is an aberration primarily due to the introduction of new census data in 2000 (1999 value of shelter demand is based on 10 year old census data.)

## 1.0 INTRODUCTION

### 1.1 Purpose of Statewide Emergency Shelter Plan

Pursuant to section 1013.372(2), and Section 252.385(2)(b), Florida Statutes (F.S.), the *Statewide Emergency Shelter Plan* (Plan), is prepared and submitted to the Governor and Cabinet for approval. The Plan provides information on existing and long-term hurricane evacuation shelter space requirements. This information is then used by district school boards, community college boards of trustees, university boards of trustees and emergency management agencies in planning for the construction of new educational facilities to comply with the public shelter design criteria. "Board," unless otherwise specified, means a district school board, a community college board of trustees, and a university board of trustees.

This Plan, once approved, will determine which regions and counties are required to construct new educational facilities to comply with the public shelter design criteria. The Plan includes: the general location and square footage of existing shelters by region and county; the general location and square footage of needed shelters by region and county for the next five years; the types of facilities that should comply with the public shelter design criteria; and recommends an appropriate and available source of funding for the additional cost of constructing public hurricane shelters in those public facilities.

Since promulgation of the public shelter design criteria in 1997, the Division has routinely received requests for guidance on certain aspects of the criteria. Therefore, based upon standard responses, this Plan also includes consultative guidance by the Division on subjects relating to implementation of the criteria; minimum mass care/human needs requirements not specified in the code, explanation of exemption criteria, etc. The guidance is not intended to be a comprehensive commentary of the criteria, but is limited to subjects pertinent to the most frequently asked questions. This Plan also includes a brief progress report of statewide hurricane shelter space deficit elimination.

### 1.2 Background and Chronology

On August 24, 1992, Hurricane Andrew made landfall in South Florida as a Category 5 hurricane. Winds in excess of 155 miles per hour spread inland, causing catastrophic damage in and about Miami-Dade County. It has been estimated that 750,000 persons heeded appropriate warnings and evacuated coastal areas, inland flood prone areas and manufactured homes. In some cases, spontaneous (or "shadow") evacuation of persons outside of areas ordered to evacuate also occurred. Though many evacuees sought shelter in motels or the homes of family and friends, many also sought safety in public shelter facilities in the affected area, and in communities along evacuation routes throughout the state. This unprecedented relocation of Florida's residents and visitors in the face of an impending natural disaster stretched the resources of State, local, and private agencies to provide public shelter.

Post-disaster evaluations of evacuation and sheltering operations by the *Governor's Disaster Planning and Response Review Committee*, known as the “Lewis Commission Report”, identified the lack of adequate and appropriate public shelter space as a critical planning issue. The Lewis Commission Report served as the driving force behind the adoption of Chapter 93-211, Laws of Florida, and subsequent revisions to Chapters 235, 240 and 252, Florida Statutes. The educational facilities sections of Chapters 235 and 240 have been superseded by Chapter 1013. Based on those revisions, the Legislature clearly stated its intent that Florida eliminate any deficit of safe public hurricane shelter space in any region of the State.

In consultation with county Board of Commissioners, county emergency management offices and the Division of Emergency Management, the State mandated that the Department of Education develop standards for a public shelter design criteria. These criteria were incorporated into State Requirements for Educational Facilities (SREF). The new criteria were to be designed to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. After promulgation of the criteria, all new educational facilities, or appropriate areas within facilities, for which a design contract was entered into after the effective date of the inclusion of the public shelter criteria in SREF, must be built in compliance with the criteria, unless the facility is exempted by the applicable local emergency management agency or the Division.

The Department of Education entered into a contract with the University of Florida, School of Building Construction, to prepare the shelter design criteria. The university assembled an advisory committee consisting of members from federal, state and local emergency management agencies, architects, engineers, academia, district school boards and shelter operations experts from the American Red Cross (ARC). The task before the advisory committee was to develop criteria that balanced the need to provide a relatively safe and self-sufficient facility, with the need for cost-effective designs and construction methods.

The advisory committee incorporated not only its collective knowledge, experience and existing national codes and standards, but also consulted with Texas Tech and Clemson Universities for severe storm research findings, and with relevant publications, such as the American Red Cross’ *Mass Care—Preparedness and Operations* (ARC 3031, superseded by ARC 3041), *Guidelines for Hurricane Evacuation Shelter Selection* (ARC 4496), and the Department of Energy’s (DOE) *Standard Natural Phenomena Hazards Design and Evaluation Criteria* (DOE-STD-1020).

The product of this process is a set of comprehensive design criteria that includes structural enhancements, potable water and sanitary requirements, provisions for emergency power, and other considerations that improve survivability and shelter management operations. The promulgation process began in 1994, and was finally adopted into SREF on April 28, 1997. Subsequently, along with other sections of SREF, the criteria were incorporated in Chapter 423 of the Florida Building Code, which became effective March 1, 2002. This provided a seamless continuation of the criteria

for new school construction projects. The public shelter design criteria code provisions in effect at the time of publication of this plan can be seen in Appendix B.

The sheltering lessons learned from Hurricane Andrew were further reiterated during 2004 and 2005 hurricane seasons. During these two seasons alone, a combined 8 hurricanes and 2 tropical storms, compelled local and State emergency management officials to order approximately 15 million people to evacuate from their homes. During 2004 and 2005, nearly every county in Florida was under hurricane or inland high wind warnings, prompting mandatory evacuation orders for their coastal storm surge, inland flood vulnerable and manufactured home residents. More than a thousand shelters were opened, which safely protected more than 410,600 evacuees.

Clearly in a large-scale emergency, the availability of shelter space is a statewide challenge. Even, if a small number of counties have surplus shelter space, deficits in others counties will have statewide implications that will have to be addressed. Evacuees that cannot find shelter space within their own county or region will leave those areas in search of viable shelter alternatives elsewhere. Thus, implementation and enforcement of the public shelter design criteria in new educational facilities is a critical component of Florida's hurricane shelter space deficit elimination program.

### **1.3 Statutory Considerations**

There are several statutory authorities that are applicable for implementation of the public shelter design criteria. The following statutes have been selected to provide context for decisions relating to planning, construction and exemption of educational facilities.

**252.38 Emergency management powers of political subdivisions.--**  
Safeguarding the life and property of its citizens is an innate responsibility of the governing body of each political subdivision of the state.

(1) COUNTIES.--

(d) During a declared state or local emergency and upon the request of the director of a local emergency management agency, the district school board or school boards in the affected area shall participate in emergency management by providing facilities and necessary personnel to staff such facilities. Each school board providing transportation assistance in an emergency evacuation shall coordinate the use of its vehicles and personnel with the local emergency management agency.

Section 252.38, F.S., provides that “[S]afeguarding the life and property of its citizens is an innate responsibility of the governing body of each political subdivision of the state.” This places the burden for evacuating and sheltering at-risk citizens during an emergency upon county governing boards (i.e., Board of County Commissioners). Public facilities, including schools, postsecondary education facilities, and other facilities owned or leased by the state or local governments, but excluding hospitals, hospice care facilities, assisted living facilities, and nursing homes, which are suitable for use as public

hurricane evacuation shelters shall be made available at the request of the local emergency management agencies. See s. 252.38(4)(a), F.S.

District public schools are the primary source of public shelter during emergencies, currently accounting for about 96 percent of statewide hurricane shelter space. Therefore, it can be presumed that public schools **will** be used as hurricane shelters, and often staffed by district personnel. It can also be presumed that public schools will be opened as shelters regardless of the storm's intensity and track. Therefore, it is critical that new school facilities be appropriately designed and located to serve the required emergency function.

**252.385 Public shelter space.--**

(1) It is the intent of the Legislature that this state not have a deficit of safe public hurricane evacuation shelter space in any region of the state by 1998 and thereafter.

(2)(a) The division shall administer a program to survey existing schools, universities, community colleges, and other state-owned, municipally owned, and county-owned public buildings and any private facility that the owner, in writing, agrees to provide for use as a public hurricane evacuation shelter to identify those that are appropriately designed and located to serve as such shelters. The owners of the facilities must be given the opportunity to participate in the surveys. The state university board of trustees, district school boards, community college boards of trustees, and the Department of Education are responsible for coordinating and implementing the survey of public schools, universities, and community colleges with the division or the local emergency management agency.

(b) By January 31 of each even-numbered year, the division shall prepare and submit a statewide emergency shelter plan to the Governor and Cabinet for approval, subject to the requirements for approval in s. 1013.37(2). The plan shall identify the general location and square footage of special needs shelters, by regional planning council region, during the next 5 years. The plan shall also include information on the availability of shelters that accept pets. The Department of Health shall assist the division in determining the estimated need for special needs shelter space and the adequacy of facilities to meet the needs of persons with special needs based on information from the registries of persons with special needs and other information.

(4)(a) Public facilities, including schools, postsecondary education facilities, and other facilities owned or leased by the state or local governments, but excluding hospitals or nursing homes, which are suitable for use as public hurricane evacuation shelters shall be made available at the request of the local emergency management agencies. Such agencies shall coordinate with the appropriate school board, university, community college, or local governing board when requesting the use of such facilities as public hurricane evacuation shelters.

Section 252.385, F.S., also states the intent of the State Legislature to eliminate the deficit of "safe" public hurricane shelter space. The Division was given both the responsibility and authority to administer a statewide program to survey public facilities and identify those that are appropriately designed and located to serve as public shelters.

To ensure consistency with State and national standards, guidelines and “best practices,” the Division has recognized ARC 4496 as the minimum hurricane shelter survey and evaluation criteria. Therefore, at a minimum, meeting ARC 4496 criteria is a required condition for any designated public shelter facility to be described as “safe”, “suitable” or “appropriate” for use as a public hurricane shelter. The public hurricane shelter capacities listed as “suitable” in this Plan are recognized by the Division as meeting ARC 4496 safety criteria. See Appendix A. The capacity lists identifies facilities that meet ARC 4496 in their existing condition (i.e., “as-is”), facilities that have been retrofitted to meet ARC 4496, and facilities that have been constructed to meet ARC 4496. New school facilities that are reported by district school boards and local emergency management agencies as having been constructed to the public shelter design criteria are generally assumed by the Division to meet ARC 4496; storm surge flooding hazards may limit recognition to exiting storms only.

It should be noted that the Division does not certify, approve or designate hurricane shelters. Through its survey program, the Division provides data and assistance to local emergency managers, who then use the ARC 4496 criteria as one factor in the selection of shelters. In addition to the ARC 4496 ranking, local emergency managers consider other factors in the selection process, such as, type of event requiring sheltering (known or perceived hazards and risks), location, available staffing resources, internal/external movement circulation, availability of adequate toilets and sanitation, feeding capabilities, back-up or emergency power, types of spaces available and their configuration and contents, type of roof covering and condition, etc. When anticipated demand exceeds available ARC 4496 shelter space, local emergency managers may select other facilities that afford the best available protection.

With the amendment of s. 252.385(2)(b), F.S. in 2006, the Plan is required to include information on the availability of pet-friendly public shelters as well as capacity of special needs shelters. The Department of Health is required to assist in determining need for special needs shelters.

As mentioned above, s. 252.385(4)(a) makes available all suitable public facilities owned or leased by state or local government agencies shall be made available for use as a public hurricane shelter upon request of the applicable local emergency management agency. This broadens the types of facilities that can be used by emergency management officials in a declared emergency, and is consistent with the Division’s authority to survey all appropriate public facilities for use as public hurricane shelters.

**1013.372 Education facilities as emergency shelters.--**

(1) The Department of Education shall, in consultation with boards and county and state emergency management offices, include within the standards to be developed under this subsection public shelter design criteria to be incorporated into the Florida Building Code. The new criteria must be designed to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. A facility, or an appropriate area within a facility, for which a design contract is entered into after the effective date of the inclusion of the public shelter criteria in the code must be built in compliance with the amended code unless the

facility or a part of it is exempted from using the new shelter criteria due to its location, size, or other characteristics by the applicable board with the concurrence of the applicable local emergency management agency or the Department of Community Affairs. Any educational facility located or proposed to be located in an identified category 1, 2, or 3 evacuation zone is not subject to the requirements of this subsection. If the regional planning council region in which the county is located does not have a hurricane evacuation shelter deficit, as determined by the Department of Community Affairs, educational facilities within the planning council region are not required to incorporate the public shelter criteria.

As mandated by law, the Department of Education was required to develop criteria, in consultation with district boards and state and local emergency management offices, to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. The criteria are required to be incorporated into the State Requirements for Educational Facilities (SREF) of the Florida Building Code (i.e., s. 423.25, Florida Building Code--Building), and all facilities for which a design contract is entered into after incorporation of the criteria into the code must be built in compliance with the criteria. The public shelter design criteria are applicable to both district school board and community college facilities, and became effective on April 28, 1997. These criteria were also codified into the Florida Building Code--Building on March 1, 2002.

Section 1013.372 allows a board to exempt a facility from the criteria if the location, size or other characteristics is inappropriate for use as a public shelter.

**It is unlawful and a violation of the Florida Building Code for a board to exempt a new educational facility from the criteria without the written concurrence of the applicable local emergency management agency or the Division.**

A facility that is located, or proposed to be located, in a Regional Planning Council region that is determined by the Division to have a hurricane shelter surplus may also be exempted.

**1013.74 University authorization for fixed capital outlay projects.--**

(4) The university board of trustees shall, in consultation with local and state emergency management agencies, assess existing facilities to identify the extent to which each campus has public hurricane evacuation shelter space. The board shall submit to the Governor and the Legislature by August 1 of each year a 5-year capital improvements program that identifies new or retrofitted facilities that will incorporate enhanced hurricane resistance standards and that can be used as public hurricane evacuation shelters. Enhanced hurricane resistance standards include fixed passive protection for window and door applications to provide mitigation protection, security protection with egress, and energy efficiencies that meet standards required in the 130-mile-per-hour wind zone areas. The board must also submit proposed facility retrofit projects to the Department of Community Affairs for assessment and inclusion in the annual report prepared in accordance with s. 252.385(3). Until a regional planning council region in which a campus is located has sufficient public hurricane evacuation shelter space, any campus building for which a design contract is entered into subsequent to July 1, 2001, and which has been identified by the



board, with the concurrence of the local emergency management agency or the Department of Community Affairs, to be appropriate for use as a public hurricane evacuation shelter, must be constructed in accordance with public shelter standards.

Section 1013.74(4), F.S., provides state university boards of trustees statutory authorities and responsibilities similar as those of district public schools and community colleges. State universities, in consultation with state and local emergency management agencies, are directed to assess existing facilities to identify the extent to which each campus has public hurricane shelter space.

Each campus is then responsible for developing a five-year capital improvements program that identifies potential new and retrofitted facilities that can be used as public hurricane shelters. The statute indicates that the facilities will incorporate “enhanced hurricane resistance standards” and must be constructed in accordance with “public shelter standards,” but does not specify the Florida Building Code’s public shelter design criteria. The Division recommends use of the Florida Building Code’s public shelter design criteria for university facilities that are appropriate for use as public shelters. All campus buildings for which a design contract is entered into after July 1, 2001 are required to be constructed to the standard.

The statute indicates that a university board of trustees may exempt a facility from the criteria with the concurrence of the applicable local emergency management agency or the Division. A facility that is proposed to be located in a Regional Planning Council region that is determined by the Division to have a hurricane shelter surplus may also be exempted. As with district school boards and community colleges, **it is unlawful for a university board of trustees to exempt a new campus facility from the criteria without the written concurrence of the applicable local emergency management agency or the Division.**

**381.0303(2) Special Needs Shelter Plan and Staffing. --**

(d) Local emergency management agencies shall be responsible for the designation and operation of special needs shelters during times of emergency or disaster and the closure of the facilities following an emergency or disaster. The local health department and emergency management agency shall coordinate these efforts to ensure the appropriate designation and operation of special needs shelters. County health departments shall assist the local emergency management agency with regard to the management of medical services in special needs shelters.

Section 381.0303(2)(d), F.S., requires local emergency management agencies designate Special Needs Shelters (SpNS). The Department of Health (through County Health Departments) is given the responsibility to assist with managing the medical service needs of the clients.

The Division strongly recommends that any SpNS shelter designated by local emergency management agency meet the ARC 4496 hurricane safety criteria been designed and constructed to the public shelter design criteria.

## 2.0 EDUCATIONAL FACILITIES AS EMERGENCY SHELTERS

The public shelter design criteria, (a.k.a., Enhanced Hurricane Protection Area (EHPA)) were designed to ensure that appropriate new educational facilities can serve as public shelters for emergency management purposes. Public educational facilities primarily serve an educational purpose. During a declared state of emergency these facilities may function as a public shelter. The public shelter function is a lawfully authorized function, and during a declared state or local emergency can preempt normal educational functions. Therefore, consideration of the emergency management purpose is a critical component of the design of a new educational facility. The following sections will provide consultative guidance for implementing the criteria.

### 2.1 Public Shelter Design Criteria

The EHPA criteria ensure that new educational facilities meet or exceed applicable national design and construction standards, guidelines and “best practices.” The EHPA criteria has been designed to significantly enhance occupant safety and building integrity. One of the main objectives of the EHPA is to ensure that these facilities continue to serve the public after exposure to a major hurricane.

It is highly recommended that prior to a construction design that the facility manager incorporate, the American Red Cross’ ARC 4496 in the planning process for an EHPA, See Appendix C. ARC 4496 is the minimum hurricane shelter selection guideline used by the Division, American Red Cross and local emergency management officials for surveying, evaluating and designating public hurricane shelters. ARC 4496 can also be viewed at the following web address:

<http://www.floridadisaster.org/Response/engineers/documents/newarc4496.pdf>

ARC 4496 requires that public hurricane shelters be designed, constructed and certified as capable of withstanding wind loads according to the American Society of Civil Engineers Standard 7 (ASCE 7). The EHPA code provisions recommend increasing the design map wind speed by 40 miles per hour. The Division endorses this requirement, especially if the EHPA, for example, is constructed with tall exterior walls, long span lightweight roof systems, wide roof overhangs, located in open areas with minimal sheltering, which are particularly vulnerable to damage from severe winds.

Please review Appendix G for additional consultative guidance on design criteria, including wind and debris impact resistance, foundation and floor slab elevation, location and site requirements, shelter capacity, plumbing and sanitation, electrical and emergency power systems, emergency management considerations. There are other useful resources to be considered in the EHPA design process: 1) International Code Council’s *Standard on the Design and Construction of Storm Shelters* (ICC 500), 2) the Department of Energy’s (DOE) *Standard Natural Phenomena Hazards Design and Evaluation Criteria*

(DOE-STD-1020), and 3) the Federal Emergency Management Agency's (FEMA) publication *Design and Construction Guidance for Community Shelters* (FEMA 361).

Special-needs shelters are no different than general population shelters. They should meet the same hurricane safety criteria as general population shelters (ARC 4496 and preferably the Florida Building Code's public shelter design criteria). Following the 2004 hurricane season, the Governor, Division and the Department of Health issued a memorandum stating an expectation that SpNS's be located in facilities that at a minimum meet the ARC 4496 hurricane safety criteria, that SpNS client occupied areas have emergency power supported air-conditioning, and that client shelter spaces be based on 60 square feet per client (20 square feet is used for general population shelter spaces). The 60 square feet of spaces includes an allowance for care-givers and medical equipment. For further guidance, please see the following memorandum dated June 6, 2005:

<http://www.floridadisaster.org/documents/Agwunobi-Fugate%20SpNS%206-7-2005.pdf>.

The State has much work to do in this area. This memorandum follows findings from the 2004 hurricane season that only about half of the designated SpNS's met the minimum safety criteria. For a summary report of the performance of SpNS's during the 2004 hurricane season and mitigative actions taken to improve operations, please see the 2005 *Special Needs Shelter Report* (June, 2005) at the following web address:

[http://floridadisaster.org/documents/SpNS\\_Report.pdf](http://floridadisaster.org/documents/SpNS_Report.pdf)

## **2.2 Exemption Criteria**

All new educational facilities must be designed and constructed to comply with the EHPA criteria unless specifically exempted by the board, with the written concurrence of the applicable local emergency management agency or the Division. See s.1013.372.

**It is unlawful and a violation of the Florida Building Code for a board to exempt a new educational facility from the criteria without the written concurrence of the applicable local emergency management agency or the Division.**

The fact that the EHPA criteria may increase the cost of construction of a facility is not a factor that will be considered for an exemption by the Division. Cost of construction may only be considered as a factor when "selecting a facility" to be designed and constructed to meet the EHPA criteria. Selection may be based upon cost-effectiveness, greatest provision of shelter space, and other factors that enhance shelter utility.

The EHPA requirement applies to any building construction project that is "new construction," as defined in ss. 1013.01(14), F.S. and s. 423.5.8, Florida Building Code--Building; that is, any construction of a building or unit of a building in which the entire work is new, or an entirely new addition connected to an existing building. This includes

replacement buildings and new buildings and additions constructed on existing campuses. The EHPA requirement also applies to reuse and prototype plans, since they are required to be code updated with each new project.

The EHPA requirement is not limited to rooms or spaces defined as “core facilities” in s. 1013.01(5), F.S. The statutory definition is intended for educational facilities purposes, and defines “core facilities” to be media centers, cafeterias, toilet facilities and circulation space (e.g., corridors, lobbies, etc.) Section 1013.372(1), F.S. states that “A facility, or an appropriate area within a facility...must be built in compliance with the (EHPA criteria) unless exempted.” The statute does not limit EHPA’s to “core facilities,” but permits use of an entire facility, or appropriate areas within a facility.

Both the Florida Statutes and the Florida Building Code provide factors to consider in exempting an educational facility from complying with the criteria. The American Red Cross’ publication *Standards for Hurricane Evacuation Shelter Selection* (ARC 4496) also provides supplemental guidance to consider in the exemption process. The following subsections provide consultative guidance when considering an exemption request.

### **2.2.1 Location.**

In general, there are five factors to be considered when making an exemption request due to location: 1) location of the proposed EHPA site within an identified Category 1, 2 or 3 hurricane evacuation zone; 2) location subject to hurricane-related rainfall or storm surge flooding or isolation; 3) location on a coastal barrier island; 4) location within the evacuation zone of facilities that manufacture, use or store certain types and quantities of hazardous materials; and 5) low evacuation demand.

**Category 1, 2 or 3 Evacuation Zone.** New educational facilities located or proposed to be located in an identified Category 1, 2 or 3 hurricane evacuation zone are exempt from the EHPA criteria. “Hurricane Evacuation Zones” are areas designated to be evacuated for particular hurricane scenarios to protect an at-risk population from flooding. Evacuation zones are developed taking into consideration all populated areas having a serious risk of flooding, areas not subject to flooding but may be cut-off or completely surrounded or isolated by flooded areas, and the need to be easily communicated to the public.

Hurricane evacuation zones are applicable to coastal counties, and possibly counties adjacent to Lake Okeechobee. Hurricane evacuation zones include areas that are subject to storm surge inundation, as predicted by the National Weather Service’s Sea, Lake and Overland Surges from Hurricanes (SLOSH) model. Category 1, 2 and 3 evacuation zones are subject to evacuation during land-falling major hurricanes, as well as paralleling and exiting major hurricanes.

Category 4 and 5 hurricanes are relatively uncommon events, and based upon the storm track (land-falling, paralleling or exiting), Category 4/5 hurricane evacuation zones

may not be inundated by storm surge. Therefore, new educational facilities proposed to be located in Category 4/5 evacuation zones are not statutorily exempt from the EHPA criteria.

Also, to facilitate communication of evacuation orders to the public during an emergency, hurricane evacuation zones are normally established using geographic, jurisdictional or transportation/utility boundaries and landmarks that are known and readily identified by the local population. Therefore, hurricane evacuation zone boundaries may extend further inland than the SLOSH model's predicted inundation areas. New educational facilities proposed to be located in a Category 4/5 evacuation zone may in fact be outside of the SLOSH predicted inundation areas. EHPA's located in Category 4/5 evacuation zones may provide emergency managers with additional sheltering options.

Category 4/5-related exemption decisions will be dependent upon the magnitude of the county and regional hurricane shelter space deficit, local logistical support capabilities and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.)

**Rainfall or storm surge flooding or isolation.** New educational facilities proposed to be located in areas subject to flooding or isolation due to rainfall or storm surge related flooding may be unsuitable for use as public hurricane evacuation shelters. Rainfall flooding includes closed-basin, riverine and containment failure of dams and reservoirs. Long-term isolation of a hurricane shelter population presents logistical challenges for emergency managers and mass care support agencies, which normally prefer equally suitable buildings not subject to flooding or isolation. The challenges include staff rotation, resupply of food, water and other consumables, emergency medical assistance, sanitation, security concerns, communication, etc. Flooding and isolation-related exemption decisions will be dependent upon the magnitude of the county and regional hurricane shelter space deficit, design and construction standards of the facility, shelter floor elevation, local logistical support capabilities and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.)

**Coastal Barrier Island.** Coastal barrier islands are often less than two (2) miles wide with very low ground elevations above mean sea level (AMSL). As such, they are exceptionally at-risk to storm surge inundation, isolation, and exposure to the full force of hurricane winds. Also, ARC 4496 states that hurricane evacuation shelters must not be located on barrier islands. Therefore, facilities on coastal barrier islands are often subject to an exemption from the EHPA criteria. Coastal barrier island exemption decisions will be dependent upon the magnitude of the county and regional hurricane shelter space deficit, design and construction standards of the facility, shelter floor elevation, local logistical support capabilities and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.) The Division uses section 161.54(2), Florida Statutes to provide a definition for coastal barrier islands.

**Hazardous Materials.** Location of a proposed new educational facility within the Vulnerability Zone (VZ) of facilities that manufacture, use or store certain types and

quantities of hazardous materials may make it unsuitable for use as public hurricane evacuation shelter. Just as with flooding isolation concerns, the possible impact of a hazardous materials spill or release presents public safety and logistical challenges to emergency managers and mass care support agencies. In addition to the challenges listed for flooding isolation, hazardous materials emergencies include detecting and communicating presence of a hazard, and implementing shelter-in-place or evacuation actions. However, most facilities with reportable quantities of hazardous materials are considered a low risk of hurricane-related spill or release due to presence of mitigation measures (e.g., limited quantities of materials, hardening of containment structures, etc.)

Hazardous materials-related exemption decisions will be dependent upon the potential for and probable impact of a hurricane-related spill or release, potential hurricane shelter's distance from hazardous materials facility, guidance from Local Emergency Planning Committee (LEPC) and local fire department, magnitude of the county and regional hurricane shelter space deficit, communication and warning capabilities, local logistical support capabilities and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.)

It should be noted that many educational facilities use or store hazardous materials that are used for janitorial services and maintenance, vocational or laboratory uses, refrigeration, water treatment, etc. Such materials are normally very limited in quantity, and suitably stored or protected, and therefore rarely a significant consideration for an exemption. The Division recommends consultation with the applicable LEPC and local fire department to determine appropriate precautionary measures.

**Low Evacuation Demand.** New educational facilities proposed to be located in areas with low evacuation demand may be considered for an EHPA exemption. Emergency managers and other mass care providers prefer to locate hurricane shelters in close proximity to the evacuees they will serve. Therefore, the emergency management agency may reduce the EHPA floor area square footage requirement to meet local evacuation demand needs, or possibly exempt the entire facility if a suitable alternative is available. Low evacuation demand exemption decisions will be dependent upon the magnitude of the county and regional hurricane shelter space deficit, local shelter demand needs and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.)

### **2.2.2 Size.**

The required size of a hurricane evacuation shelter is very dependent upon local circumstances. To effectively utilize available resources and operational plans (e.g., staffing, feeding, security, etc.), a hurricane shelter located in an area with low evacuation demand can be significantly smaller than a hurricane shelter located near a highly populated evacuation zone. Public hurricane shelters can range from as small as about 50 spaces to as large as several thousand spaces.

Section 252.385(4)(b), F.S. can serve as a pertinent guide when establishing a minimum size criterion for public hurricane shelters. This statute applies to suitable

Department of Management Services owned or leased facilities, and requires that the facility have a minimum of 2,000 square feet of net usable floor area. The required minimum net usable floor area can be in a single room, or a combination of rooms each having a minimum of 400 square feet of net usable floor area. At 20 square feet per hurricane shelter space, this translates into a minimum capacity of 100 spaces.

Therefore, to be consistent with s. 252.385(4)(b), F.S., the Division generally considers new educational facilities with less than 2,000 square feet of net usable floor area to be small enough for an exemption.

### **2.2.3 Other Considerations.**

“Other Considerations” is, for all intents and purposes, interpreted to mean any factor that, despite the investment in public funds to enhance the hurricane safety of a facility, is determined to make the facility inappropriate for use as a public hurricane evacuation shelter. This will generally be related to incompatibility of a facility’s normal function or availability with public shelter operations.

As examples, the following types of spaces are normally excluded during calculation of net usable occupant capacity of a hurricane shelter, and are therefore often avoided by emergency managers when selecting hurricane shelters:

Mechanical, plumbing, electrical, telephone and communication equipment rooms, storage rooms and closets, exterior/outside circulation and corridors, restrooms and shower areas, kitchen and food preparation rooms, science labs, computer and information technology labs, vocational and industrial technology labs and shops, library and media rooms and labs, exercise rooms with fixed equipment, administrative office and support areas, data and word processing rooms and areas, record vaults, mail rooms, custodial rooms and work areas, medical clinic and first aid rooms, residential and dormitory rooms and areas, radio or television broadcast facilities, attics and crawl spaces, etc.

New educational facilities that are designed exclusively to serve these functions may be exempted from complying with the EHPA criteria.

Other considerations may also include local strategies and long-range plans. As an example, to reduce costs and maximize hurricane shelter utility, a board and local emergency management agency may agree (in writing) that 100 percent of the floor area of new high schools will be constructed to the EHPA criteria, instead of the minimum of 50 percent, in exchange for reducing or eliminating EHPA requirements for middle and elementary schools. The proposed plan eliminates the county hurricane shelter space deficit, plus creates additional space toward reducing the regional deficit, within about five years. Thus the long-range plan achieves statutory intent, and exemptions for applicable middle and elementary schools are acceptable.

#### **2.2.4 Alterations or Maintenance of Existing Buildings.**

Florida Statutes and the Florida Building Code both state that the EHPA criteria apply to “new educational facilities.” Therefore, renovations, remodeling, maintenance and repair of existing buildings, as defined in s. 1013.01, F.S. and s. 423.5, Florida Building Code--Building, are exempt from compliance with the EHPA criteria.

#### **2.2.5 Regional Surplus of “Safe” Hurricane Shelter Space.**

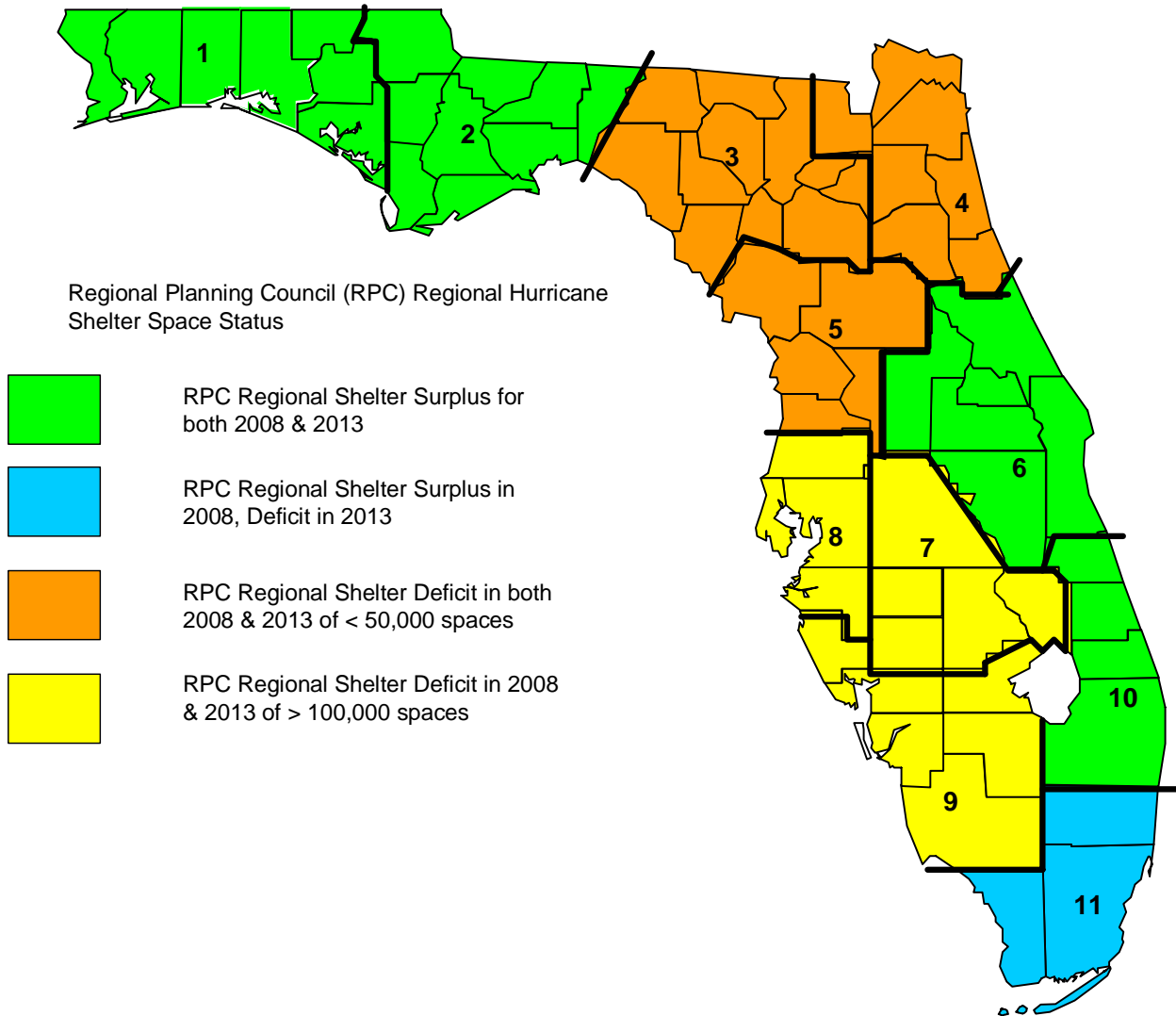
Section 1013.372, F.S. states that new educational facilities proposed to be located in a Regional Planning Council (RPC) region that does not have a hurricane evacuation shelter space deficit are not required to incorporate the EHPA criteria. The hurricane shelter surplus/deficit determination is established by biennial publication and approval of this Plan, which guides exemption decisions over a five year planning period.

As can be seen in Figure 2-1, only five (5) RPC regions have a surplus of hurricane shelter space in 2008: West Florida (region 1), Apalachee (region 2), East Central Florida (region 6), Treasure Coast (region 10) and South Florida (region 11). Based upon currently available information, surpluses will continue in RPC regions 1, 2, 6, and 10 through 2013; RPC region 11 will experience a deficit in 2013, but only if there are no additional hurricane shelter spaces added to the inventory. All other regions have hurricane shelter space deficits, and per section 1013.372(1) and section 1013.74(4), Florida Statutes, their respective district school boards, community colleges and universities are required to construct all new educational facilities in compliance with the public shelter design criteria.

Therefore, this EHPA criteria exemption factor will not be applicable for 38 of 67 counties for at least the next two years, if not more than five years. For more detailed information, please see Section 3.2.



**Figure 2-1. Regional Hurricane Shelter Space Surplus/Deficit Status**



### **2.2.6 Exemption Process.**

In accordance with ss. 1013.372, F.S. and 423.25, F.S. ,Florida Building Code--Building, the following procedures are recommended by the Division when requesting exemptions from the public shelter design criteria/EHPA requirement:

1. The board must notify the local emergency management agency of all new educational facility construction projects.
2. The board must evaluate each new educational facility construction project to determine if a statutory or code specified exemption to the criteria is applicable.
3. If an exemption is not requested, the board should consult with the local emergency management agency to identify those areas of the new facilities that will maximize public shelter capacity, and meet the needs of both the primary educational purpose and the secondary emergency management purpose.
4. If the board requests an exemption, the request must be prepared and submitted in writing to either the local emergency management agency or the Division. The request must identify the specific statutory or code factor(s) to be considered for the exemption, and provide appropriate supporting documentation.
5. If the local emergency management agency or the Division concurs with the exemption request, a written response stating the concurrence will exempt the new educational facility from the criteria.
6. If the local emergency management agency or the Division does not concur in writing with the exemption request, then the board must comply with the criteria.

### **2.3 Estimate of School Board Compliance with EHPA Requirement**

In 2001, staff from the Auditor General's Office performed a hurricane shelter and grant management operational audit of the Department of Community Affairs. See: [http://www.myflorida.com/audgen/pages/pdf\\_files/02-055.pdf](http://www.myflorida.com/audgen/pages/pdf_files/02-055.pdf)

Auditor General Report No. 02-055, dated October, 2001. In Finding No. 2 of the report, the Auditor General found that a significant number of new educational facilities, constructed by district school boards and community colleges, had not complied with the public shelter design criteria, and had not received an exemption (written or otherwise) by local emergency management agencies or the Division.

Given the projected deficits of public hurricane shelter space in this state, the Auditor General indicated that steps must be taken to remedy the situation.

The Auditor General also recommended that the Division, in consultation with the State Legislature, Florida Department of Education and local emergency management officials, continue its efforts to ensure compliance with the provisions of the law. Subsequently, the Department of Education distributed memorandum number DPBM No. 02-42 (from Wayne V. Pierson, dated October 31, 2001) that reiterated the necessity for compliance with the statute. A copy of memorandum DPBM No. 02-42 is included in Appendix I.

Since distribution of the Auditor General's report and the Department of Education's memorandum in 2001, the Division has taken additional steps to encourage compliance with the EHPA criteria through the emergency management community. In 2003, with the assistance of the Department of Education, the Division compiled a list of new school facilities from the Florida Inventory of School Houses (FISH) with construction years between 2000 and 2003. Unless exempted, these school facilities were lawfully required to incorporate the EHPA criteria. The lists were forwarded to local emergency managers to assist them in determining local compliance, as well as assist in identifying additional unreported shelter capacity.

The Division also annually requests hurricane shelter capacity data that is sorted to differentiate new school EHPA's, retrofit, and "as-is" (i.e., ARC 4496 hurricane shelter facilities that are not classified as a retrofit or EHPA) shelter space. This data is used to monitor progress toward eliminating county-level, regional and statewide hurricane shelter space deficits. The data also provides a means of tracking EHPA productivity on an annual basis.

The Division substantially revised the 2004 Statewide Emergency Shelter Plan to incorporate guidance to assist local school boards and emergency managers with implementing the criteria. The Division also participated in workshops at several conferences that included a presentation of EHPA construction requirements, code compliance and implementation strategies. The conferences were attended by emergency managers and their shelter program partners, school board officials, code enforcement officials, architects and engineers (National Hurricane Conference, Governor's Hurricane Conference, Florida Emergency Preparedness Association Meetings, etc.)

In preparation for the 2008 Plan, the Division again collaborated with the Department of Education to compile a list of new school facilities from the FISH data; this time the list of new facilities included those constructed between 2000 and 2006 (only buildings with at least 4,000 net square feet). Universities and community colleges were not included primarily due to the fact that they only account for about two (2) percent of the statewide shelter space inventory. The data was then used in coordination with local emergency managers to estimate compliance by school boards with the EHPA requirement.

The FISH data was analyzed to determine which facilities were located in Category 1, 2 or 3 storm surge evacuation zones, and those that had relatively little usable floor area (i.e., less than 2,000 square feet of net usable space). These characteristics provide a cause for an exemption. The Division also incorporated data from the facilities that were previously recognized as meeting EHPA criteria. The data was then tabulated and distributed to local emergency managers. The Division requested that local emergency managers verify which facilities are recognized as EHPA's, and which facilities (if any) received written exemptions from their office. The Division has not granted an exemption, so any exemptions would have been local. Table 2-1 provides a summary of the findings.

<b>Table 2-1. Estimate of Local Compliance with EHPA Requirements</b>		
<b>Description</b>	<b>Number of Bldgs</b>	<b>Net Square Feet</b>
Total Number of New Buildings for Years 2000 to 2006 (excluding Region 11)	1,773	47,389,656
Division Recognized EHPA Buildings	406	13,286,733
Local Emergency Management Exempted Buildings	296	7,512,532
New Buildings Located in Category 1, 2 or 3 Hurricane Evacuation Zones	153	4,616,052
Total Number of New Buildings that met Lawful Requirements	855	25,415,317
Total Number of New Buildings that did not meet Lawful Requirements	918	21,974,339
Percentage of New Buildings that Complied with the Law	48	54
Percentage of New Buildings that did not Comply with the Law	52	46
Potential EHPA Space Lost (50% required by Code)	---	10,987,170
Potential EHPA Net Square Feet Lost (average 65% usability factor)	---	7,141,660
Potential EHPA Spaces Lost (at Code required 20 square feet each)	---	357,083 spaces

The results are not encouraging. Since Regional Planning Council (RPC) Region 11 (Miami-Dade, Broward, and Monroe Counties) was granted an EHPA exemption because it had a surplus in the 2004 Plan. Therefore, they were excluded from this update. According to the Florida Inventory of School Houses (FISH) data, there were 1,773 new school buildings (based on at least 4,000 net square feet of area per room types listed in Appendix H) constructed between 2000 and 2006, with an estimated total net usable floor area of 47,389,656 square feet. The Division recognizes 406 facilities (13,286,733 square feet) as meeting the EHPA requirements of the law, and another 449 buildings (12,128,584 square feet) were lawfully exempt for statutory and code accepted causes. Therefore, only about 855 of 1,773 new buildings complied with statutory and code EHPA requirements.

Since the EHPA code requirements are based on achieving a minimum quantity of floor area square footage, the square footage is the most reliable means of estimating compliance. The combined floor area square footage of the non-compliant buildings is 21,974,339 square feet, or a non-compliance rate of about 46 percent. The result of the survey indicates that compliance rate, statewide, has not significantly improved. There was sufficient square footage in the non-compliant new buildings to have substantially reduced Florida's current hurricane shelter space deficit. Clearly more needs to be accomplished to improve compliance with the EHPA statutory and code requirements.

### 3.0 REGIONAL HURRICANE EVACUATION SHELTER REQUIREMENTS

#### 3.1 Methodology for Calculating Regional and County Hurricane Evacuation Shelter Status

**Location and Square Footage of Existing Shelters.** The location and square footage of existing shelters can be found in Appendix A, which provides a detailed inventory of shelter locations and capacities within each region and county. The tables in Appendix A use the terms “risk” and “host” shelters. Risk shelters include those shelter spaces designated for use during hurricanes, and host shelters include those spaces available for general use outside of a forecasted hurricane impact area. The terms “risk” and “host” shelters are further defined in Appendix E.

**Location and Square Footage of Needed Shelters.** Region/County estimates for Shelter Capacity, Shelter Demands, and Shelter Surpluses/Deficits are provided in Table 3-1 and are based on worst case scenario. Results contained in Table 3-1 for 2008 and 2013 are displayed in number of persons. Region/County square feet estimates for 2008 and 2013, using the same worst case scenario, are provided in Table 3-2.

**Shelter Demand Sources/Results by County.** 2008 through 2013 county shelter demand estimates for vulnerable populations are provided for Storm Categories 4 and 5. Vulnerable populations are defined as populations located in coastal surge zones, flood prone areas and those living in manufactured housing. Source data for these estimates, including demographics, estimated percent vulnerable populations, estimated percent of vulnerable populations expected to seek public shelter, and data sources (Hurricane Evacuation Studies) can be found in Appendix J.

The 2008 through 2013 population estimates are based on the recently released Bureau of Economic and Business Research April 2007 population estimates (Nov 2007). The Bureau of Economic and Business Research is an applied research center in the Warrington College of Business Administration at the University of Florida. Percent vulnerable populations and percent of vulnerable populations expected to seek public shelter were derived from the most current Hurricane Evacuation Study or updated evacuation study module. Appendix J lists the study used for each region. Using the planning assumption that Florida continues to experience population growth along its coastline the percentages obtained or calculated from data within the studies were then applied to population estimates published by the Bureau of Economic and Business Research.

**Determining County Shelter Capacities.** County shelter capacity data for all 67 counties were updated by local emergency management agencies through 2007, and also cross-referenced with the *2007 Shelter Retrofit Report*. Since 1995, Florida has been implementing ARC 4496 hurricane shelter selection standards and Florida’s *Model Hurricane Evacuation Shelter Selection Guidelines*. Therefore, based upon subsequent results of regional and county hurricane shelter surveys, local emergency management

agencies were requested to provide shelter inventory capacities based on those facilities that met the required ARC 4496 standards, and separately those facilities that did not.

Those facilities that have not yet been surveyed, and therefore have not yet been documented to meet the above standards, were designated as facilities not meeting the ARC 4496 standards. The Division has standardized a consistent methodology of calculating shelter capacities across the state for the purpose of this Plan. For each shelter, a net square footage for the building was pulled from the Florida Department of Education's FISH (Florida Inventory of School Houses) database, including only those room types specified in Appendix H of this Plan. Then, each room's square footage was multiplied by a usability factor based on room type. See Appendix H. This allowed for the space lost to furniture and for walkway space and generated a "lay-down" or square footage area actually usable for bunk space. This figure was then divided by 20 square feet per person for General Population Risk Shelters and 60 square feet per client for Special Needs Risk Shelters. These are the square footages and capacities used to calculate the shelter deficit reduction in this Plan.

The Division recognizes that many counties have local preferences and practices that may further limit usage of buildings. For example, one county may choose to utilize only hallways, gyms or cafeterias, even though the rest of the building (i.e. classrooms) also meets ARC 4496 guidelines. In some cases, the limiting factor is the number of available staff, i.e., they can staff for only 500 people in a given location, even though they have room for many more. Also the local shelter capacity at a specific building may exceed local need. In recognition of these and other variances, the Division has included a column, "Local Planned Usage" in the individual county charts in Appendix A, showing local planned usage of particular shelters. However, it should be noted that the capacities calculated per the method in the paragraph above, still exist and could, in an emergency, be utilized and therefore are counted against the shelter deficit.

**Determining County Shelter Demand.** The hurricane shelter demand percentage for each county reflects the percentage of a county's vulnerable population that is projected to seek public shelter. These percentages are based on the conclusions of the behavioral analyses conducted for each of the regional hurricane evacuation studies. The analyses utilize survey and statistical methodologies to estimate behavioral responses to various hurricane scenarios. It is important to note that results obtained by a survey do NOT always correlate to actual behavior. What people say they will do during a "blue sky" survey often differs from actual behavior, which is influenced by a number of factors. Strength of storm, time since most recent significant disaster, and previous experience (or lack of) with tropical weather are just a few factors that influence a person's decision to evacuate or seek shelter. Hence, shelter demand may fluctuate over time. All estimates are based on a worst case storm scenario and optimal compliance with local evacuation orders.

Most of the behavioral analyses in the state have been prepared on a regional basis by Hazards Management Group (HMG) and are therefore a consistent benchmark relative to the survey methodologies and statistical applications. The public shelter use

percentages in the behavioral section of the hurricane evacuation study are combined with local income characteristics in the hurricane risk area (two important variables in determining public shelter use) to calculate shelter demand numbers. HMG performed behavioral analyses as part of the hurricane evacuation study in all regions and counties, except for the East Central and Central Florida regions. Nonetheless, shelter demand numbers were provided in the hurricane evacuation study and those figures were used for the purposes of this plan.

The hurricane evacuation studies conducted for all regions of Florida between 1988 and 2000 include shelter demand figures for each county. For this Plan, these data served as the basis for estimating the shelter demand for coastal and inland counties between 2008 and 2013. The same methodology for projecting the vulnerable population during this period was used to calculate the estimated shelter demand figures for those years.

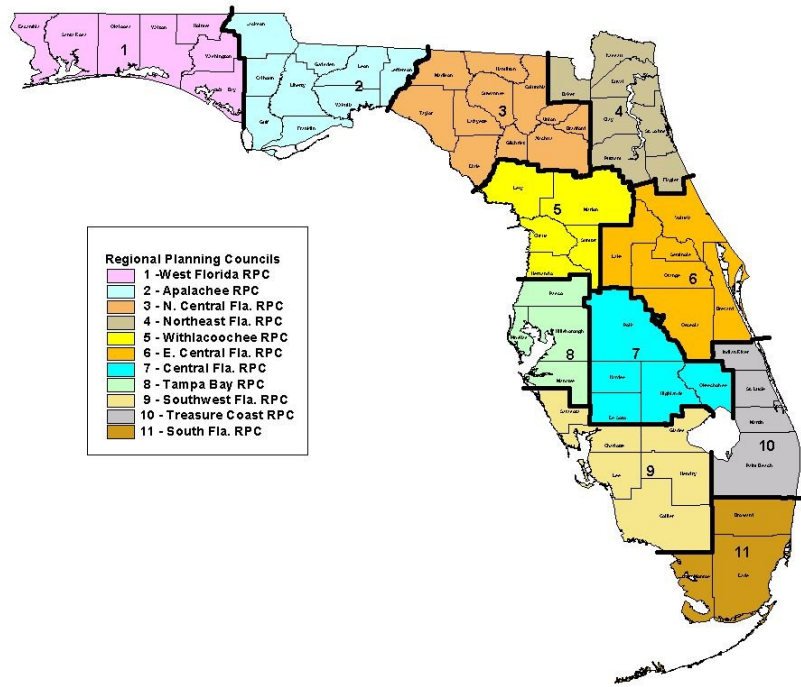
The Shelter Demand for the Persons with Special Needs (PSN) had to be derived differently. There have not been any behavioral studies conducted to date that consider the specific demands for PSN population versus General Population (GP). Lacking this foundation, the PSN demand figures contained in this Plan were generated by selecting the highest figure of three separate factors for each county. The three factors considered were: (1) the maximum daily census of PSN clients in SpNSs in each county during the 2004 and 2005 hurricane seasons; (2) the local Emergency Management Agencies estimate of demand for PSN clients; or (3) thirty-five percent of the current PSN registry in each county. The third “factor” was derived from observations during the 2004-2005 hurricane seasons that supported the contention that in the majority of counties (especially the lesser populated counties) approximately thirty-five percent of the total number of PSN registrants appeared to actually use SpNSs. In each case, the demand was determined by selecting the largest figure of the three factors.

### **3.2 Location and Square Footage of Existing and Needed Shelters**

Tables 3-1 and 3-2 below provide information regarding location and shelter occupant capacity of both existing and needed hurricane shelters (i.e., risk shelters) for each of the 67 Florida counties. The tables also show which regions of the state have a deficit of hurricane shelter space.



**Figure 3-1. Regional Planning Council (RPC) Regions of Florida**



**3.3 Pet-Friendly Shelters Availability**

A recurrent concern noted during past hurricanes is the need to provide for shelters for pets. In many cases, pet-owners are unwilling to go to shelters during hurricanes due the lack of facilities to keep their pets. Most shelters will only allow guide dogs or similar service animals. In some counties provisions have been made at local Agricultural Centers for horses and large animals. In a few cases, rooms (i.e. locker rooms) were set aside in risk/storm shelters for pets that were brought anyway. Pursuant to s. 252.385(2)(b), F.S., the Division is tasked with tracking the availability of pet-friendly shelters across the state. As of this time, the best available information indicates the following:

In 42 counties- pet-owners are advised of local hotels that will accept pets. No pet-friendly public risk shelters are provided.

In 6 counties- No public risk shelters are pet-friendly. And no local hotels are recognized as accepting pets.

In 19 counties- some pet-friendly shelters are provided with a total of 20,094 risk shelter spaces (state-wide) located in the pet-friendly shelters. These pet-friendly shelters are designated with an “A” under the General (G), People with Special Needs (P), Pet-Friendly (A) column in the by-county listings. See Appendix A.

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In People (estimated)	2013 Category 5 Shelter Demand In People (estimated)	2008 Risk Shelter Capacity In People	2008 Shelter Surplus/ Deficit In People	2013 Shelter Surplus/ Deficit In People	2008 Category 5 Shelter Demand In Clients (estimated)	2013 Category 5 Shelter Demand In Clients (estimated)	2008 Risk Shelter Capacity In Clients	2008 Shelter Surplus/ Deficit In Clients	2013 Shelter Surplus/ Deficit In Clients
1	BAY	13,071	14,100	18,501	5,430	4,401	2,233	2,511	1,136	(1,097)	(1,375)
1	ESCAMBIA	11,959	12,628	15,163	3,204	2,535	512	544	671	159	127
1	HOLMES	1,120	1,192	1,100	(20)	(92)	20	21	38	18	17
1	OKALOOSA	13,171	14,354	5,206	(7,965)	(9,148)	79	85	67	(12)	(18)
1	SANTA ROSA	7,793	9,311	11,837	4,044	2,526	127	144	704	577	560
1	WALTON	5,650	7,052	4,919	(731)	(2,133)	44	56	91	47	35
1	WASHINGTON	1,131	1,279	4,492	3,361	3,213	134	142	144	10	2
<b>Region 1 Subtotals:</b>		<b>53,895</b>	<b>59,916</b>	<b>61,218</b>	<b>7,323</b>	<b>1,302</b>	<b>3,149</b>	<b>3,503</b>	<b>2,851</b>	<b>(298)</b>	<b>(652)</b>
2	CALHOUN	1,072	1,098	0	(1,072)	(1,098)	51	60	0	(51)	(60)
2	FRANKLIN	948	982	0	(948)	(982)	48	52	176	128	124
2	GADSDEN	2,923	2,998	2,535	(388)	(463)	250	277	0	(250)	(277)
2	GULF	993	1,031	335	(658)	(696)	20	21	0	(20)	(21)
2	JACKSON	3,116	3,398	3,034	(82)	(364)	180	190	33	(147)	(157)
2	JEFFERSON	1,065	1,113	809	(256)	(304)	32	37	0	(32)	(37)
2	LEON	9,156	10,169	22,413	13,257	12,244	175	183	705	530	522
2	LIBERTY	702	749	1,150	448	401	185	206	0	(185)	(206)
2	WAKULLA	1,010	1,248	400	(610)	(848)	46	59	0	(46)	(59)
<b>Region 2 Subtotals:</b>		<b>20,985</b>	<b>22,786</b>	<b>30,676</b>	<b>9,691</b>	<b>7,890</b>	<b>987</b>	<b>1,085</b>	<b>914</b>	<b>(73)</b>	<b>(171)</b>
3	ALACHUA	6,909	7,546	5,705	(1,204)	(1,841)	2,500	2,564	487	(2,013)	(2,077)
3	BRADFORD	2,173	2,247	1,068	(1,105)	(1,179)	138	157	217	79	60
3	COLUMBIA	6,171	6,621	2,297	(3,874)	(4,324)	75	87	0	(75)	(87)
3	DIXIE	2,514	2,784	2,051	(463)	(733)	55	60	83	28	23

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In People (estimated)	2013 Category 5 Shelter Demand In People (estimated)	2008 Risk Shelter Capacity In People	2008 Shelter Surplus/ Deficit In People	2013 Shelter Surplus/ Deficit In People	2008 Category 5 Shelter Demand In Clients (estimated)	2013 Category 5 Shelter Demand In Clients (estimated)	2008 Risk Shelter Capacity In Clients	2008 Shelter Surplus/ Deficit In Clients	2013 Shelter Surplus/ Deficit In Clients
3	GILCHRIST	2,117	2,386	3,243	1,126	857	52	60	101	49	41
3	HAMILTON	1,532	1,570	1,397	(135)	(173)	10	10	101	91	91
3	LAFAYETTE	1,000	1,048	238	(762)	(810)	1	1	60	59	59
3	MADISON	1,735	1,811	4,311	2,576	2,500	30	30	28	(2)	(2)
3	SUWANNEE	5,053	5,796	3,484	(1,569)	(2,312)	73	77	50	(23)	(27)
3	TAYLOR	2,276	2,299	2,424	148	125	135	155	0	(135)	(155)
3	UNION	1,162	1,215	1,251	89	36	80	92	33	(47)	(59)
<b>Region 3 Subtotals:</b>		<b>32,642</b>	<b>35,323</b>	<b>27,469</b>	<b>(5,173)</b>	<b>(7,854)</b>	<b>3,149</b>	<b>3,293</b>	<b>1,160</b>	<b>(1,989)</b>	<b>(2,133)</b>
4	BAKER	2,678	2,854	1,676	(1,002)	(1,178)	146	177	0	(146)	(177)
4	CLAY	21,696	24,735	5,759	(15,937)	(18,976)	400	534	152	(248)	(382)
4	DUVAL	68,833	74,134	48,792	(20,041)	(25,342)	1,850	2,065	1,488	(362)	(577)
4	FLAGLER	4,505	5,731	4,130	(375)	(1,601)	650	1,052	0	(650)	(1,052)
4	NASSAU	3,696	4,204	3,657	(39)	(547)	265	323	123	(142)	(200)
4	PUTNAM	9,017	9,431	2,796	(6,221)	(6,635)	163	167	144	(19)	(23)
4	ST.JOHN'S	9,369	11,089	11,270	1,901	181	505	647	766	261	119
<b>Region 4 Subtotals:</b>		<b>119,794</b>	<b>132,178</b>	<b>78,080</b>	<b>(41,714)</b>	<b>(54,098)</b>	<b>3,979</b>	<b>4,965</b>	<b>2,673</b>	<b>(1,306)</b>	<b>(2,292)</b>
5	CITRUS	8,379	9,206	4,750	(3,629)	(4,456)	450	525	138	(312)	(387)
5	HERNANDO	2,971	3,158	2,856	(115)	(302)	1,700	2,020	666	(1,034)	(1,354)
5	LEVY	2,270	2,513	2,473	203	(40)	155	172	136	(19)	(36)
5	MARION	24,011	27,470	13,051	(10,960)	(14,419)	1,000	1,136	763	(237)	(373)
5	SUMTER	6,008	6,879	544	(5,464)	(6,335)	575	1,063	0	(575)	(1,063)
<b>Region 5 Subtotals:</b>		<b>43,639</b>	<b>49,226</b>	<b>23,674</b>	<b>(19,965)</b>	<b>(25,552)</b>	<b>3,880</b>	<b>4,916</b>	<b>1,703</b>	<b>(2,177)</b>	<b>(3,213)</b>
6	BREVARD	16,647	18,128	49,570	32,923	31,442	2,000	2,223	1,967	(33)	(256)

TABLE 3-1											
RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In People (estimated)	2013 Category 5 Shelter Demand In People (estimated)	2008 Risk Shelter Capacity In People	2008 Shelter Surplus/ Deficit In People	2013 Shelter Surplus/ Deficit In People	2008 Category 5 Shelter Demand In Clients (estimated)	2013 Category 5 Shelter Demand In Clients (estimated)	2008 Risk Shelter Capacity In Clients	2008 Shelter Surplus/ Deficit In Clients	2013 Shelter Surplus/ Deficit In Clients
6	LAKE	18,886	22,193	26,696	7,810	4,503	1,100	1,355	322	(778)	(1,033)
6	ORANGE	12,651	14,698	11,009	(1,642)	(3,689)	3,153	3,340	1,101	(2,052)	(2,239)
6	OSCEOLA	11,986	15,071	29,269	17,283	14,198	1,195	1,464	1,331	136	(133)
6	SEMINOLE	3,519	3,947	13,525	10,006	9,578	67	75	415	348	340
6	VOLUSIA	31,370	34,997	26,987	(4,383)	(8,010)	636	639	1,520	884	881
<b>Region 6 Subtotals:</b>		<b>95,059</b>	<b>109,034</b>	<b>157,056</b>	<b>61,997</b>	<b>48,022</b>	<b>8,151</b>	<b>9,096</b>	<b>6,656</b>	<b>(1,495)</b>	<b>(2,440)</b>
7	DESOTO	5,708	6,363	2,645	(3,063)	(3,718)	100	106	159	59	53
7	HARDEE	5,221	5,464	557	(4,664)	(4,907)	90	75	75	(15)	0
7	HIGHLANDS	9,450	10,234	3,050	(6,400)	(7,184)	142	152	0	(142)	(152)
7	OKEECHOBEE	10,600	11,129	2,939	(7,661)	(8,190)	150	158	0	(150)	(158)
7	POLK	160,306	176,650	34,861	(125,445)	(141,789)	3,867	4,347	500	(3,367)	(3,847)
<b>Region 7 Subtotals:</b>		<b>191,285</b>	<b>209,840</b>	<b>44,052</b>	<b>(147,233)</b>	<b>(165,788)</b>	<b>4,349</b>	<b>4,838</b>	<b>734</b>	<b>(3,615)</b>	<b>(4,104)</b>
8	HILLSBOROUGH	132,510	146,056	91,043	(41,467)	(55,013)	4,500	4,983	1,850	(2,650)	(3,133)
8	MANATEE	36,994	41,382	39,905	2,911	(1,477)	1,325	1,366	764	(561)	(602)
8	PASCO	59,873	68,751	31,445	(28,428)	(37,306)	1,580	1,812	815	(765)	(997)
8	PINELLAS	109,681	113,997	34,341	(75,340)	(79,656)	3,200	2,962	2,433	(767)	(529)
<b>Region 8 Subtotals:</b>		<b>339,058</b>	<b>370,186</b>	<b>196,734</b>	<b>(142,324)</b>	<b>(173,452)</b>	<b>10,605</b>	<b>11,123</b>	<b>5,862</b>	<b>(4,743)</b>	<b>(5,261)</b>
9	CHARLOTTE	31,095	34,291	3,127	(27,968)	(31,164)	651	679	0	(651)	(679)
9	COLLIER	43,885	53,760	23,286	(20,599)	(30,474)	1,687	1,775	394	(1,293)	(1,381)
9	GLADES	5,818	6,144	637	(5,181)	(5,507)	10	9	216	206	207
9	HENDRY	12,348	13,146	6,311	(6,037)	(6,835)	35	33	0	(35)	(33)
9	LEE	133,211	155,001	36,432	(96,779)	(118,569)	1,150	1,422	2,550	1,400	1,128
9	SARASOTA	52,105	57,433	40,416	(11,689)	(17,017)	3,400	3,887	3,938	538	51

TABLE 3-1											
RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In People (estimated)	2013 Category 5 Shelter Demand In People (estimated)	2008 Risk Shelter Capacity In People	2008 Shelter Surplus/ Deficit In People	2013 Shelter Surplus/ Deficit In People	2008 Category 5 Shelter Demand In Clients (estimated)	2013 Category 5 Shelter Demand In Clients (estimated)	2008 Risk Shelter Capacity In Clients	2008 Shelter Surplus/ Deficit In Clients	2013 Shelter Surplus/ Deficit In Clients
<b>Region 9 Subtotals:</b>		278,462	319,775	110,209	(168,253)	(209,566)	6,933	7,805	7,098	165	(707)
10	INDIAN RIVER	5,764	6,447	7,286	1,522	839	500	560	582	82	22
10	MARTIN	8,933	9,929	18,841	9,908	8,912	400	415	455	55	40
10	PALM BEACH	47,288	53,474	52,910	5,622	(564)	290	287	800	510	513
10	ST.LUCIE	8,747	10,098	15,385	6,638	5,287	662	878	666	4	(212)
<b>Region 10 Subtotals:</b>		70,732	79,948	94,422	23,690	14,474	1,852	2,140	2,503	651	363
11	BROWARD	36,194	39,462	39,975	3,781	513	349	317	2,221	1,872	1,904
11	MIAMI-DADE	68,308	72,890	92,304	23,996	19,414	884	921	3,928	3,044	3,007
11	MONROE	20,302	20,693	0	(20,302)	(20,693)	279	274	197	(82)	(77)
<b>Region 11 Subtotals:</b>		124,804	133,045	132,279	7,475	(766)	1,512	1,512	6,346	4,834	4,834
<b>Totals</b>		1,370,355	1,521,257	955,869	(414,486)	(565,388)	48,546	54,276	38,500	(10,046)	(15,776)

Table 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF	2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF
1	BAY	261,420	282,000	344,185	82,765	62,185	133,980	150,660	68,228	(65,752)	(82,432)
1	ESCAMBIA	239,180	252,560	352,647	113,467	100,087	30,720	32,640	40,386	9,666	7,746
1	HOLMES	22,400	23,840	22,012	(388)	(1,828)	1,200	1,260	2,280	1,080	1,020
1	OKALOOSA	263,420	287,080	96,643	(166,777)	(190,437)	4,740	5,100	4,020	(720)	(1,080)
1	SANTA ROSA	155,860	186,220	228,517	72,657	42,297	7,620	8,640	42,262	34,642	33,622
1	WALTON	113,000	141,040	106,732	(6,268)	(34,308)	2,640	3,360	5,502	2,862	2,142
1	WASHINGTON	22,620	25,580	94,484	71,864	68,904	8,040	8,520	8,666	626	146
	<b>Region 1 Totals:</b>	<b>1,077,900</b>	<b>1,198,320</b>	<b>1,245,220</b>	<b>167,320</b>	<b>46,900</b>	<b>188,940</b>	<b>210,180</b>	<b>171,344</b>	<b>(17,596)</b>	<b>(38,836)</b>
2	CALHOUN	21,440	21,960	0	(21,440)	(21,960)	3,060	3,600	0	(3,060)	(3,600)
2	FRANKLIN	18,960	19,640	75,863	56,903	56,223	2,880	3,120	10,560	7,680	7,440
2	GADSDEN	58,460	59,960	46,192	(12,268)	(13,768)	15,000	16,620	0	(15,000)	(16,620)
2	GULF	19,860	20,620	7,307	(12,553)	(13,313)	1,200	1,260	0	(1,200)	(1,260)
2	JACKSON	62,320	67,960	58,021	(4,299)	(9,939)	10,800	11,400	1,980	(8,820)	(9,420)
2	JEFFERSON	21,300	22,260	14,790	(6,510)	(7,470)	1,920	2,220	0	(1,920)	(2,220)
2	LEON	183,120	203,380	362,379	179,259	158,999	10,500	10,980	42,380	31,880	31,400
2	LIBERTY	14,040	14,980	21,121	7,081	6,141	11,100	12,360	0	(11,100)	(12,360)
2	WAKULLA	20,200	24,960	6,711	(13,489)	(18,249)	2,760	3,540	0	(2,760)	(3,540)
	<b>Region 2 Totals:</b>	<b>419,700</b>	<b>455,720</b>	<b>592,384</b>	<b>172,684</b>	<b>136,664</b>	<b>59,220</b>	<b>65,100</b>	<b>54,920</b>	<b>(4,300)</b>	<b>(10,180)</b>
3	ALACHUA	138,180	150,920	120,086	(18,094)	(30,834)	150,000	153,840	29,309	(120,691)	(124,531)
3	BRADFORD	43,460	44,940	16,038	(27,422)	(28,902)	8,280	9,420	13,139	4,859	3,719
3	COLUMBIA	123,420	132,420	44,185	(79,235)	(88,235)	4,500	5,220	0	(4,500)	(5,220)
3	DIXIE	50,280	55,680	44,204	(6,076)	(11,476)	3,300	3,600	5,039	1,739	1,439
3	GILCHRIST	42,340	47,720	65,218	22,878	17,498	3,120	3,600	6,115	2,995	2,515

Table 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF	2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF
3	HAMILTON	30,640	31,400	27,049	(3,591)	(4,351)	600	600	6,071	5,471	5,471
3	LAFAYETTE	20,000	20,960	3,576	(16,424)	(17,384)	60	60	3,600	3,540	3,540
3	MADISON	34,700	36,220	64,806	30,106	28,586	1,800	1,800	1,680	(120)	(120)
3	SUWANNEE	101,060	115,920	69,691	(31,369)	(46,229)	4,380	4,620	3,000	(1,380)	(1,620)
3	TAYLOR	45,520	45,980	37,994	(7,526)	(7,986)	8,100	9,300	0	(8,100)	(9,300)
3	UNION	23,240	24,300	29,705	6,465	5,405	4,800	5,520	2,010	(2,790)	(3,510)
<b>Region 3 Totals:</b>		<b>652,840</b>	<b>706,460</b>	<b>522,552</b>	<b>(130,288)</b>	<b>(183,908)</b>	<b>188,940</b>	<b>197,580</b>	<b>69,963</b>	<b>(118,977)</b>	<b>(127,617)</b>
4	BAKER	53,560	57,080	33,520	(20,040)	(23,560)	8,760	10,620	0	(8,760)	(10,620)
4	CLAY	433,920	494,700	115,407	(318,513)	(379,293)	24,000	32,040	9,170	(14,830)	(22,870)
4	DUVAL	1,376,660	1,482,680	1,046,143	(330,517)	(436,537)	111,000	123,900	89,269	(21,731)	(34,631)
4	FLAGLER	90,100	114,620	0	(90,100)	(114,620)	39,000	63,120	0	(39,000)	(63,120)
4	NASSAU	73,920	84,080	73,115	(805)	(10,965)	15,900	19,380	7,406	(8,494)	(11,974)
4	PUTNAM	180,340	188,620	55,887	(124,453)	(132,733)	9,780	10,020	8,677	(1,103)	(1,343)
4	ST.JOHN'S	187,380	221,780	235,872	48,492	14,092	30,300	38,820	76,000	45,700	37,180
<b>Region 4 Totals:</b>		<b>2,395,880</b>	<b>2,643,560</b>	<b>1,559,944</b>	<b>(835,936)</b>	<b>(1,083,616)</b>	<b>238,740</b>	<b>297,900</b>	<b>190,522</b>	<b>(48,218)</b>	<b>(107,378)</b>
5	CITRUS	167,580	184,120	83,104	(84,476)	(101,016)	27,000	31,500	8,290	(18,710)	(23,210)
5	HERNANDO	59,420	63,160	54,246	(5,174)	(8,914)	102,000	121,200	40,000	(62,000)	(81,200)
5	LEVY	45,400	50,260	37,699	(7,701)	(12,561)	9,300	10,320	8,209	(1,091)	(2,111)
5	MARION	480,220	549,400	309,141	(171,079)	(240,259)	60,000	68,160	45,886	(14,114)	(22,274)
5	SUMTER	120,160	137,580	9,549	(110,611)	(128,031)	34,500	63,780	0	(34,500)	(63,780)
<b>Region 5 Totals:</b>		<b>872,780</b>	<b>984,520</b>	<b>493,739</b>	<b>(379,041)</b>	<b>(490,781)</b>	<b>232,800</b>	<b>294,960</b>	<b>102,385</b>	<b>(130,415)</b>	<b>(192,575)</b>
6	BREVARD	332,940	362,560	1,109,099	776,159	746,539	120,000	133,380	118,147	(1,853)	(15,233)
6	LAKE	377,720	443,860	545,421	167,701	101,561	66,000	81,300	19,409	(46,591)	(61,891)

Table 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF	2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF
6	ORANGE	253,020	293,960	340,342	87,322	46,382	189,180	200,400	66,216	(122,964)	(134,184)
6	OSCEOLA	239,720	301,420	603,397	363,677	301,977	71,700	87,840	79,810	8,110	(8,030)
6	SEMINOLE	70,380	78,940	273,211	202,831	194,271	4,020	4,500	22,958	18,938	18,458
6	VOLUSIA	627,400	699,940	534,442	(92,958)	(165,498)	38,160	38,340	91,386	53,226	53,046
<b>Region 6 Totals:</b>		<b>1,901,180</b>	<b>2,180,680</b>	<b>3,405,912</b>	<b>1,504,732</b>	<b>1,225,232</b>	<b>489,060</b>	<b>545,760</b>	<b>397,926</b>	<b>(91,134)</b>	<b>(147,834)</b>
7	DESOTO	114,160	127,260	50,702	(63,458)	(76,558)	6,000	6,360	9,594	3,594	3,234
7	HARDEE	104,420	109,280	7,784	(96,636)	(101,496)	5,400	4,500	4,500	(900)	0
7	HIGHLANDS	189,000	204,680	77,004	(111,996)	(127,676)	8,520	9,120	0	(8,520)	(9,120)
7	OKEECHOBEE	212,000	222,580	63,577	(148,423)	(159,003)	9,000	9,480	0	(9,000)	(9,480)
7	POLK	3,206,120	3,533,000	676,928	(2,529,192)	(2,856,072)	232,020	260,820	30,038	(201,982)	(230,782)
<b>Region 7 Totals:</b>		<b>3,825,700</b>	<b>4,196,800</b>	<b>875,995</b>	<b>(2,949,705)</b>	<b>(3,320,805)</b>	<b>260,940</b>	<b>290,280</b>	<b>44,132</b>	<b>(216,808)</b>	<b>(246,148)</b>
8	HILLSBOROUGH	2,650,200	2,921,120	1,804,506	(845,694)	(1,116,614)	270,000	298,980	111,000	(159,000)	(187,980)
8	MANATEE	739,880	827,640	823,565	83,685	(4,075)	79,500	81,960	45,820	(33,680)	(36,140)
8	PASCO	1,197,460	1,375,020	646,047	(551,413)	(728,973)	94,800	108,720	49,005	(45,795)	(59,715)
8	PINELLAS	2,193,620	2,279,940	686,654	(1,506,966)	(1,593,286)	192,000	177,720	146,057	(45,943)	(31,663)
<b>Region 8 Totals:</b>		<b>6,781,160</b>	<b>7,403,720</b>	<b>3,960,772</b>	<b>(2,820,388)</b>	<b>(3,442,948)</b>	<b>636,300</b>	<b>667,380</b>	<b>351,882</b>	<b>(284,418)</b>	<b>(315,498)</b>
9	CHARLOTTE	621,900	685,820	46,902	(574,998)	(638,918)	39,060	40,740	0	(39,060)	(40,740)
9	COLLIER	877,700	1,075,200	455,133	(422,567)	(620,067)	101,220	106,500	23,705	(77,515)	(82,795)
9	GLADES	116,360	122,880	11,780	(104,580)	(111,100)	600	540	12,982	12,382	12,442
9	HENDRY	246,960	262,920	118,060	(128,900)	(144,860)	2,100	1,980	0	(2,100)	(1,980)
9	LEE	2,664,220	3,100,020	778,972	(1,885,248)	(2,321,048)	69,000	85,320	153,000	84,000	67,680
9	SARASOTA	1,042,100	1,148,660	788,138	(253,962)	(360,522)	204,000	233,220	236,300	32,300	3,080
<b>Region 9 Totals:</b>		<b>5,569,240</b>	<b>6,395,500</b>	<b>2,198,985</b>	<b>(3,370,255)</b>	<b>(4,196,515)</b>	<b>415,980</b>	<b>468,300</b>	<b>425,987</b>	<b>10,007</b>	<b>(42,313)</b>



Table 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF	2008 Category 5 Shelter Demand In SF (estimated)	2013 Category 5 Shelter Demand In SF (estimated)	2008 Risk Shelter Capacity In SF	2008 Shelter Surplus/ Deficit In SF	2013 Shelter Surplus/ Deficit In SF
10	INDIAN RIVER	115,280	128,940	246,985	131,705	118,045	30,000	33,600	34,920	4,920	1,320
10	MARTIN	178,660	198,580	401,952	223,292	203,372	24,000	24,900	27,356	3,356	2,456
10	PALM BEACH	945,760	1,069,480	1,262,892	317,132	193,412	17,400	17,220	48,000	30,600	30,780
10	ST.LUCIE	174,940	201,960	361,338	186,398	159,378	39,720	52,680	41,161	1,441	(11,519)
	<b>Region 10 Totals:</b>	<b>1,414,640</b>	<b>1,598,960</b>	<b>2,273,167</b>	<b>858,527</b>	<b>674,207</b>	<b>111,120</b>	<b>128,400</b>	<b>151,437</b>	<b>40,317</b>	<b>23,037</b>
11	BROWARD	723,880	789,240	1,479,056	755,176	689,816	20,940	19,020	133,349	112,409	114,329
11	MIAMI-DADE	1,366,160	1,457,800	1,849,915	483,755	392,115	53,040	55,260	235,779	182,739	180,519
11	MONROE	406,040	413,860	0	(406,040)	(413,860)	16,740	16,440	11,864	(4,876)	(4,576)
	<b>Region 11 Totals:</b>	<b>2,496,080</b>	<b>2,660,900</b>	<b>3,328,971</b>	<b>832,891</b>	<b>668,071</b>	<b>90,720</b>	<b>90,720</b>	<b>380,992</b>	<b>290,272</b>	<b>290,272</b>
	<b>Totals</b>	<b>27,407,100</b>	<b>30,425,140</b>	<b>20,457,641</b>	<b>(6,943,459)</b>	<b>(9,967,499)</b>	<b>2,912,760</b>	<b>3,256,560</b>	<b>2,341,490</b>	<b>(571,270)</b>	<b>(915,070)</b>

#### **4.0 TYPES OF PUBLIC FACILITIES THAT SHOULD COMPLY WITH PUBLIC SHELTER DESIGN CRITERIA**

By statute, all suitable public facilities are subject to being used as public hurricane evacuation shelters in a declared state or local emergency. See s. 252.38, F.S. Therefore, any suitable new public facility should include the EHPA criteria. This includes not only public educational facilities, but also certain types of state and local government facilities. In general, facilities that are designed for public assembly, either as a primary or auxiliary use, may be appropriate for use as public shelters during an emergency. At this time, only public educational facilities are subject to the EHPA criteria by statute and code. This is primarily due to the fact that public educational facilities account for more than 98 percent of current public hurricane shelter space, and relatively few other state and local facilities are appropriate for use as public shelters.

The public shelter space may be located in a single building or a complex of buildings, placed in a single large room or a complex of rooms in close proximity to each other, or in one or more stories of multistory building(s); preferably with a means of inside circulation and convenient access to toilets.

To determine if a proposed new public facility should be subject to the EHPA criteria, regardless of non-educational function or agency with ownership, the proposed facility should be reviewed based upon the exemption criteria given in Section 2.2 of this Plan. Facilities not subject to an exemption may be appropriate for use as public hurricane shelters. The decision to incorporate the EHPA criteria into a new public facility must be coordinated with the local emergency management agency(s) or the Division.

##### **4.1 Public Schools and Community Colleges**

District public schools (K-12) are the primary source of public hurricane shelter space in Florida, accounting for about 96 percent of current capacity. This is due to the fact that schools are widely distributed in populated areas, school facilities are designed for large assembly occupancies with many inherent mass care features (e.g., adequate quantity of toilets, dining/feeding areas, etc.), access to the facilities can be coordinated through a single local agency, etc. The types of school buildings that are potentially appropriate for use as public shelters include gymnasiums, cafeterias, multipurpose facilities, auditoriums, certain classroom buildings, etc.

Community colleges account for only about one (1) percent of current public shelter capacity. Community colleges are regionally distributed, and potentially located in areas with high demands for public hurricane shelter space. Like K-12 public schools, community colleges are normally designed for large assembly occupancies and possess many inherent mass care features. The types of college buildings that are potentially appropriate for use as public shelters include gymnasiums, cafeterias, multipurpose facilities, auditoriums, certain classroom buildings, etc.

## **4.2 Charter Schools**

Charter schools appear to have a general exemption from meeting many of the requirements of the K-20 Education Code; reference s. 1002.33(16)(a), F.S. However, s. 1002.33(18), requires charter schools to utilize facilities which comply with the generally applicable provisions of the Florida Building Code, and may opt to comply with the State Requirements of Educational Facilities (SREF). According to this statute it appears that new charter school facilities are subject to Chapter 423, Florida Building Code--Building, and to the EHPA criteria.

Charter schools may be used to expand the capacity of the public school system. Therefore, under some circumstances, a charter school may replace construction of a new public school facility within a geographic area of a county or region where there is significant demand for public hurricane shelter space. Under normal circumstances, a new public school facility would be lawfully required by statute and code to incorporate the EHPA criteria. If charter schools were exempt, this would limit the ability of both the board and emergency management agencies to reduce the public hurricane shelter space deficit.

Charter schools are eligible to receive state capital outlay funding to support construction, operation, maintenance, repair or other purposes, and such facilities, when located on district property, are subject to reversion to the district school board in the event that a charter school terminates operation. Given the public investment in the facilities, and the magnitude of the hurricane shelter space deficit, certain charter schools should be required to comply with the EHPA criteria.

The following are factors to be considered in determining if a specific new charter school facility should incorporate the EHPA criteria: 1) are state capital outlay funds supporting the construction project; 2) does the project meet the definition of "new construction" as defined in ss. 1013.01(14), F.S. or 423.5.8, Florida Building Code; 3) would the facility be subject to an exemption per s. 1013.372(1), F.S., due its location, size or other characteristic; 4) would the facility be subject to reversion to the district board if charter school operations terminate; or 5) will the facility be subject to use as a public hurricane shelter per s. 252.385(4)(a), F.S., because it is owned or leased by a state or local governmental entity.

## **4.3 State Universities**

State university facilities account for only about one (1) percent of current public hurricane shelter capacity. Unlike K-12 public schools and community colleges, state university campuses may not be as widely distributed, though several are potentially located in areas with high demands for public hurricane shelter space (Florida Gulf Coast University, University of South Florida, etc.) Main campuses and some satellite campuses may have several appropriate buildings concentrated in one (or more) proximate geographic area. This concentration of shelter spaces reduces staffing and logistical resource demands of a sheltering operation.

State university facilities are normally designed for large assembly occupancies, with many having inherent mass care features. The types of university buildings that are potentially appropriate for use as public shelters include gymnasiums, field houses and sports arenas, cafeterias, multipurpose facilities, auditoriums, certain classroom buildings, etc.

State universities must consider two separate populations when developing their public shelter strategies: 1) campus staff, faculty and their families, and students (both commuters and residential); and 2) the general public. University facilities may be designated for sole use by one population, or concurrent use by both populations, at the discretion of the university board with the concurrence of local emergency management agency or the Division. Residential facilities are not normally subject to the EHPA criteria, but incorporation of the criteria into new residential housing or dormitories (or portions thereof) will free up additional hurricane shelter space for the general public in appropriate non-residential facilities.

#### **4.4 State and Local Public Facilities**

Local public facilities account for about two (2) percent of current public hurricane shelter capacity. Given their administrative function (and essential emergency function of certain facilities) most state-owned, county-owned and municipally-owned facilities are not appropriate for use as public hurricane shelters. Administrative office and support areas, data and word processing rooms and areas, record vaults, etc., are exempt from the EHPA criteria. However, certain other types of public facilities may be appropriate, such as community or civic centers, meeting halls, auditoriums, exhibition halls, sports arenas, conference or training centers, and other public assembly facilities.

## 5.0 RECOMMENDED SOURCES OF FUNDING

School districts have generally been reporting that the construction cost premium for incorporating the EHPA criteria is about three (3) to six (6) percent. For most new facilities, this appears to translate into a construction cost premium of less than \$500,000. These are small, but not necessarily inconsequential, costs that must be borne by State and local governments. Therefore, pursuant to s. 1013.372(2), F.S., recommends use of existing state capital outlay funds to fund construction of public shelters. There is no dedicated state source of funding to support construction of EHPA's, so the Division recommends use of existing state capital outlay funds.

### 5.1 Public Schools, Community Colleges and University Facilities

The only significant and applicable funding source available at this time for district public schools, community colleges and universities is Public Education Construction Outlay (PECO) funds. These funds are earmarked for site acquisition and improvements necessary to accommodate buildings, equipment, and other structures of district school boards, community colleges and universities. The Division recommends the use of these because they are an appropriate and available source of State funding.

Table 5-1 provides a summary of estimated PECO funds that have been distributed to local school boards from Fiscal Year 1997/98, when the EHPA requirement was promulgated by code, through Fiscal Year 2007/08. The PECO funding information was provided by the Department of Education. Universities and community colleges are not included in Table 5-1 due to the fact that only about two (2) percent of the statewide public hurricane shelter capacity is located on their campuses. The comparison column provides a means of evaluating EHPA production versus PECO funds distributed during the eleven (11) years that the EHPA has been a code requirement. The average PECO funds distributed per EHPA space created is \$12,221. School boards with comparison values near or below this average were more productive than those that were significantly higher than either the average or have a value of zero (0).

<b>County</b>	<b>New Construction PECO Funds, \$</b>	<b>Cumulative EHPA Spaces @ 20 sf each</b>	<b>Ratio of PECO Funds Received to EHPA Spaces Built, \$</b>
Alachua	\$11,259,601	684*	\$16,461
Baker	\$11,661,291	306	\$38,109
Bay	\$10,859,453	2,583*	\$4,204
Bradford	\$2,249,719	0	\$0
Brevard	\$26,106,770	24,376*	\$1,071
Broward	\$142,470,762	46,638*	\$3,055
Calhoun	\$784,430	0	\$0

<b>County</b>	<b>New Construction PECO Funds, \$</b>	<b>Cumulative EHPA Spaces @ 20 sf each</b>	<b>Ratio of PECO Funds Received to EHPA Spaces Built, \$</b>
Charlotte	\$8,155,417	0	\$0
Citrus	\$9,098,566	414	\$21,977
Clay	\$33,357,803	2,365	\$14,105
Collier	\$32,671,979	14,140*	\$2311
Columbia	\$23,754,518	2,297	\$10,342
DeSoto	\$18,058,774	0	\$0
Dixie	\$14,154,220	249*	\$56,844
Duval	\$41,218,480	14,058*	\$2,932
Escambia	\$12,981,817	2,095	\$6,196
Flagler	\$24,435,936	1,178*	\$20,744
Franklin	\$29,850,898	0	\$0
Gadsden	\$43,397,909	2,535	\$17,119
Gilchrist	\$12,714,107	0	\$0
Glades	\$9,792,870	648*	\$15,112
Gulf	\$1,273,642	103	\$12,365
Hamilton	\$21,616,613	1,200*	\$18,014
Hardee	\$36,541,386	557	\$65,604
Hendry	\$5,854,106	1,000	\$5,854
Hernando	\$19,757,185	2,777*	\$7,115
Highlands	\$6,671,647	1,167	\$5,717
Hillsborough	\$116,732,512	63,541	\$1,837
Holmes	\$26,719,353	1,035*	\$25,816
Indian River	\$9,177,687	1,746*	\$5,256
Jackson	\$19,522,153	2,237*	\$8,727
Jefferson	\$16,446,824	809	\$20,330
Lafayette	\$761,887	0	\$0
Lake	\$34,318,997	25,896*	\$1,325
Lee	\$58,199,909	22,559*	\$2,580
Leon	\$13,465,772	0	\$0
Levy	\$11,412,955	276	\$41,351
Liberty	\$880,984	548	\$1,608
Madison	\$26,041,583	0	\$0
Manatee	\$26,244,894	24,331*	\$1,079
Marion	\$30,843,129	6,455*	\$4,778
Martin	\$11,185,632	5,722*	\$1,955
Miami-Dade	\$137,663,557	16,671*	\$8,258
Monroe	\$2,669,409	0	\$0
Nassau	\$7,473,742	3,421*	\$2,185
Okaloosa	\$8,682,205	0	\$0

<b>Table 5-1. Estimate of PECO Funds Distributed to School Districts 1997 – 2008 Comparison to EHPA Spaces Created</b>			
<b>County</b>	<b>New Construction PECO Funds, \$</b>	<b>Cumulative EHPA Spaces @ 20 sf each</b>	<b>Ratio of PECO Funds Received to EHPA Spaces Built, \$</b>
Okeechobee	\$3,028,213	1,011	\$2,995
Orange	\$92,781,612	11,185*	\$8,295
Osceola	\$45,617,993	6,282*	\$7,262
Palm Beach	\$90,417,384	46,780*	\$1,933
Pasco	\$52,659,792	15,173*	\$3,471
Pinellas	\$47,136,756	19,161*	\$2,460
Polk	\$70,220,218	33,025*	\$2,216
Putnam	\$3,940,227	1,243*	\$3,170
St. Johns	\$31,478,473	8,241*	\$3,820
St. Lucie	\$42,737,691	3,890*	\$10,987
Santa Rosa	\$14,078,992	7,413	\$1,899
Sarasota	\$29,289,602	31,717*	\$923
Seminole	\$30,294,339	1,000	\$30,294
Sumter	\$2,160,982	200	\$10,805
Suwannee	\$10,203,465	3,484	\$2,929
Taylor	\$9,786,460	2,424	\$4,037
Union	\$5,928,295	411*	\$14,424
Volusia	\$27,744,381	8,848*	\$3,136
Wakulla	\$27,205,638	400	\$68,014
Walton	\$3,790,551	1,508	\$2,514
Washington	\$38,588,597	1,455	\$26,521
<b>Statewide Total</b>	<b>\$1,848,282,746</b>	<b>501,467</b>	<b>\$12,221</b>
* - Spaces shown have been adjusted to reflect Persons with Special Needs (PSN) space capacity at an equivalent rate of three (3) times the general population spaces (i.e., 1 PSN space @ 60 sf each = 3 GP spaces @ 20 sf each). Note: <u>\$12,221</u> is an average of the ratios, less those with a value of "\$0".			

The Department of Education also reported that under the Classrooms for Kids (CFK) program the state has distributed an additional \$2.5 Billion in capital outlay funds. The CFK funds are allocated to reduce class sizes and can be used for construction, renovation, remodel or repair of permanent facilities, or purchase or lease-purchase of relocatables. Since some of these activities are not subject to EHPA code requirements they have not been included in Table 5-1. The CFK funds were derived from Lottery proceeds, General Revenue and PECO funds.

## **5.2 Department of Management Services Facilities**

The Department of Management Services (DMS) has reported that the premium costs associated with constructing to the EHPA criteria can be included in existing funding sources. If the additional cost of adding emergency shelter capabilities to a new

DMS building is not very large (e.g., less than five percent) such that the project remains financially supportable by the rental rate, then the EHPA-related cost premium can be included in the overall construction amount financed via bond issue.

Alternatively, the additional cost can be added to the General Revenue component of the project funding request. Although the construction of buildings may be financed, some general revenue funding must be included in the overall budget request for various non-construction costs such as architectural and engineering fees, land acquisition and impact assessments. The funding for non-standard items (e.g. equipment, ancillary facilities) are also typically included as general revenue in request.

### **5.3 Mitigation Funds**

From time to time, some Federal and State mitigation-related funds may be available to support the construction cost premium for improving hurricane-resistance **above** minimum code requirements for new facilities. By example, some mitigation programs may share the cost of increasing the design wind speed by the EHPA criteria's recommended 40 miles per hour. The principal Federal/State mitigation program is the Hazard Mitigation Grant Program (HMGP). However, the HMGP is not considered "available" for most new construction projects because its grant cycles are often tied to the Federal disaster declaration. The HMGP also has a pre-disaster mitigation (PDM) grant cycle which is nationally competitive. Information on the mitigation programs can be obtained through state and local emergency management agencies.



## **6.0 STATEWIDE PROGRESS TOWARD ELIMINATING THE PUBLIC HURRICANE EVACUATION SHELTER SPACE DEFICIT**

The Division has statutory responsibility and authority to administer a statewide program to eliminate the deficit of “safe” hurricane shelter space. See s.252.385, F.S. To accomplish this objective, the Division has implemented the following program. 1) surveying of existing buildings, both public and private, to identify suitable shelter capacity; 2) where cost effective (and practical), support mitigation and retrofitting of facilities to increase shelter capacity; 3) require construction of new facilities to meet the EHPA criteria; 4) reduce shelter demand through improved hurricane hazard models and behavioral studies; and 5) improve public information/education to reduce unnecessary “shadow” evacuations.

Since 1995, the Division has been performing a survey of existing designated and potential hurricane shelters. The initial findings of the survey were not encouraging. The vast majority of the designated hurricane shelters were in buildings that did not meet the ARC 4496 guidelines. As examples, the pre-survey designated hurricane shelters rarely had adequate (if any) window protection (83 percent), and were often constructed with long span roofs (41 percent) and unreinforced masonry walls (43 percent). The initial results of the survey began, for the first time, to quantify the actual condition of Florida’s hurricane shelter inventory, instead of relying on anecdotal concerns that had been expressed for more than 20 years. However, during the survey process, hundreds of thousands of spaces were identified that only required minor retrofitting (e.g., window protection) to meet the ARC 4496 guidelines.

Between 1995 and 2000, the reported hurricane shelter space deficit increased considerably; from about 361,000 in 1996 to more than 1.5 million in 2000. During this time-frame, less than 200,000 hurricane shelter spaces could be documented, primarily in the southeastern and east-central coastal regions of the state. This capacity was principally the result of post-Hurricane Andrew HMGP funding of public school window protection projects. No other significant source of funding had been identified to support the minor retrofit projects being documented during the survey process.

Concurrently, s. 235.26(9)(a), F.S. (superseded by 1013.372(1)) stated that all new educational facilities for which a design contract was entered into after July 1, 1995 were required to incorporate the public shelter design criteria. However, the criteria did not become effective until April 28, 1997. It is also not unusual for there to be a three-year delay between promulgation and availability of the first group of compliant facilities. Therefore, minimal progress was made prior to 2000 via construction of new public schools to the EHPA criteria.

By 2000, the reported hurricane shelter space deficit peaked as the strategy originally directed by Chapter 93-211, Laws of Florida, began to produce results. As a benchmark, the *2000 Statewide Emergency Shelter Plan* reported that Florida had a statewide hurricane shelter space deficit of more than 1.5 million spaces. This reported deficit affected every region of the state, but especially the southern and central regions

of the peninsula. This did not imply that in any given storm that 1.5 million evacuees would simultaneously seek public shelter, but reflects the State's cumulative hurricane shelter space deficit. State and local emergency managers and other public officials prefer that persons ordered to evacuate for a hurricane stay within their home county or region, and not evacuate long distances. The *2000 Statewide Emergency Shelter Plan's* published statewide and regional deficits served to quantify the challenge that lay ahead.

In 1999, the State Legislature appropriated more than \$2.2 million to support a hurricane shelter retrofitting initiative. The appropriation stipulated that the funds be used to shutter school buildings for use as hurricane shelters. The Division used the *1999 Shelter Retrofit Report* to identify and prioritize projects to receive the funds. A total of 58 projects were selected, which created an estimated 34,928 spaces. In 2000, the State Legislature appropriated an additional \$18 million (combined Federal, State and local funds) to complete the projects listed in the *1999 Shelter Retrofit Report*. The 2000 appropriation included funds from the Hurricane(s) Floyd and Irene (Federal HMGP declaration), which were earmarked to support the state's effort to reduce the deficit of hurricane shelter space.

The *2007 Shelter Retrofit Report* can provide additional information concerning Florida's hurricane shelter survey and retrofit program. The *2007 Shelter Retrofit Report* can be viewed at the following web address:

<http://www.floridadisaster.org/Response/engineers/index.htm>

Since 1995, through Federal, State, and local retrofitting of suitable facilities, Florida has created a total of approximately 486,023 public hurricane shelter spaces. The "Retrofitted / Mitigated Capacity Gained" column of Table 6-1 demonstrates county-by-county progress toward eliminating the hurricane shelter space deficit by retrofitting appropriate facilities to meet ARC 4496. Retrofitted facilities account for about forty-nine (49) percent of the state's total capacity of ARC 4496 hurricane shelter spaces. The majority of this retrofit capacity has been created since 1999. Though regions and counties with the greatest deficits received priority for available retrofit funds, there has been a more widespread distribution of the retrofit funds due to the statewide nature of the deficit. Some of the retrofitted facilities have less than preferred mass care characteristics (e.g., conveniently located toilet facilities, etc.), but the retrofit program produced a rapid improvement in the safety of Florida's hurricane shelter inventory.

Creation of hurricane shelter capacity through construction of new school facilities to the EHPA criteria has also increased since 1999. Local emergency management and school board officials have reported that about 464,046 EHPA shelters spaces have been created. The "EHPA Capacity Gained" column of Table 6-1 demonstrates county-by-county progress toward eliminating the hurricane shelter space deficit via EHPA construction. The application of the EHPA criteria has been inconsistent across the state, with several counties reporting construction of relatively few (if any) EHPA's. EHPA spaces account for about forty-seven (47) percent of the state's

total capacity of ARC 4496 hurricane shelter spaces. However, as with any program, “institutionalization” takes time to evolve, and progress is being made.

About 44,300 spaces were identified through surveys as meeting ARC 4496 guidelines (“as-is”) without further retrofitting needed. These facilities however, did not meet all the EHPA code requirements. These Pre-Mitigation ARC 4496 spaces account for about four (4) percent of the state’s total spaces.

Since 1995, the Division’s hurricane shelter survey and retrofit program has directly or indirectly led to identification or creation of about 530,323 hurricane shelter spaces that meet ARC 4496 guidelines. The EHPA construction program has created about 464,046 hurricane shelter spaces. Therefore, by the 2008 hurricane season, Florida will have a total of approximately 994,369 shelter spaces that meet ARC 4496 guidelines.

<b>Totals Per County</b>	<b>Pre-Mitigation ARC 4496 Capacity (persons)</b>	<b>EHPA Capacity Gained (persons)</b>	<b>Retrofitted / Mitigated Capacity Gained (persons)</b>	<b>Total ARC 4496 (Non-SpNs) Spaces</b>
ALACHUA	0	0	5,705	5,705
BAKER	0	306	1,370	1,676
BAY	0	2,007	16,494	18,501
BRADFORD	0	0	1,068	1,068
BREVARD	1,103	20,272	28,195	49,570
BROWARD	0	39,975	0	39,975
CALHOUN	0	0	0	0
CHARLOTTE	0	0	3,127	3,127
CITRUS	252	0	4,498	4,750
CLAY	0	2,365	3,394	5,759
COLLIER	0	12,958	10,328	23,286
COLUMBIA	0	2,297	0	2,297
DESOTO	0	0	2,645	2,645
DIXIE	0	0	2,051	2,051
DUVAL	4,141	12,462	32,189	48,792
ESCAMBIA	254	2,095	12,814	15,163
FLAGLER	1,677	650	1,803	4,130
FRANKLIN	0	0	0	0
GADSDEN	0	2,535	0	2,535
GILCHRIST	0	0	3,243	3,243
GLADES	0	0	637	637
GULF	232	103	0	335
HAMILTON	0	896	501	1,397
HARDEE	0	557	0	557
HENDRY	939	1,000	4,372	6,311
HERNANDO	0	779	2,077	2,856
HIGHLANDS	1,136	1,167	747	3,050
HILLSBOROUGH	446	63,541	27,056	91,043
HOLMES	0	921	179	1,100
INDIAN RIVER	75	0	7,211	7,286

TABLE 6-1				
Totals Per County	Pre-Mitigation ARC 4496 Capacity (persons)	EHPA Capacity Gained (persons)	Retrofitted / Mitigated Capacity Gained (persons)	Total ARC 4496 (Non-SpNs) Spaces
JACKSON	0	2,138	896	3,034
JEFFERSON	0	809	0	809
LAFAYETTE	0	0	238	238
LAKE	0	24,930	1,766	26,696
LEE	9,793	17,459	9,180	36,432
LEON	822	517	21,074	22,413
LEVY	70	276	2,127	2,473
LIBERTY	0	548	602	1,150
MADISON	0	0	4,311	4,311
MANATEE	0	22,039	17,866	39,905
MARION	0	6,089	6,962	13,051
MARTIN	5,003	4,900	8,938	18,841
MIAMI-DADE	2,061	14,970	75,273	92,304
MONROE	0	0	0	0
NASSAU	0	3,052	605	3,657
OKALOOSA	166	0	5,040	5,206
OKEECHOBEE	0	1,011	1,928	2,939
ORANGE	1,802	8,878	329	11,009
OSCEOLA	0	4,632	24,637	29,269
PALM BEACH	0	46,030	6,880	52,910
PASCO	0	14,084	17,361	31,445
PINELLAS	5,488	16,251	12,602	34,341
POLK	1,007	31,525	2,329	34,861
PUTNAM	0	811	1,985	2,796
SANTA ROSA	597	7,413	3,827	11,837
SARASOTA	0	21,478	18,938	40,416
SEMINOLE	0	1,000	12,525	13,525
ST.JOHNS	0	6,741	4,529	11,270
ST.LUCIE	3,584	2,888	8,913	15,385
SUMTER	0	200	344	544
SUWANNEE	0	3,484	0	3,484
TAYLOR	0	2,424	0	2,424
UNION	0	312	939	1,251
VOLUSIA	2,145	7,114	17,728	26,987
WAKULLA	0	400	0	400
WALTON	1,507	1,508	1,904	4,919
WASHINGTON	0	1,023	3,469	4,492
<b>Totals- General Pop</b>	<b>44,300</b>	<b>443,820</b>	<b>467,749</b>	<b>955,869</b>
<b>Totals SpNS</b>	<b>0</b>	<b>20,226</b>	<b>18,274</b>	<b>38,500</b>
<b>Grand Total</b>	<b>44,300</b>	<b>464,046</b>	<b>486,023</b>	<b>994,369</b>

Florida is also reducing its hurricane shelter deficit by implementing new technologies, such as Light Detection And Ranging (LIDAR), and improved SLOSH computer models. These new technologies have been able to more precisely determine which areas are vulnerable to hurricane storm surge. As a result of these improved techniques, new hurricane evacuation studies have been performed, which in many cases either removed certain areas from storm surge zones, or minimized the surge height predicted.

Armed with new storm tide atlases and hurricane evacuation studies, local emergency management officials are able to refine their designated evacuation zones for each storm scenario. Smaller evacuation areas represent less people at risk. Fewer people at risk means fewer evacuees. Fewer evacuees translates into reduced shelter demand. Two examples of this application are Broward and Miami-Dade counties. Through its LIDAR project, Broward County was able to reduce its number of hurricane evacuees by about 250,000 residents, which reduced shelter demand by an estimated 37,500 spaces. Miami-Dade County was also able to reduce its evacuation zones through more precise ground survey methods. Its new evacuation zones reduce the number of those who must evacuate by approximately 395,000, which reduced shelter demand by an estimated 59,250 spaces.

Hurricane shelter demand has also been reduced through adjustments to reflect more current and accurate census information (i.e., 2000 census vs. 1990 census), and changes in the methodology of Hurricane Evacuation Studies. Historically, 25 percent or more of a hurricane vulnerable population were projected to seek safety in public shelters. Many of the post-1998 Hurricane Evacuation Studies are now indicating that fewer than 15 percent will seek public shelter for a Category 5 hurricane. The 2004 hurricane season provides an example of the relatively low public shelter use. Though none of the storms made landfall as a Category 5 hurricane, two storms approached Florida at near Category 5 strength before making landfall as a Category 3 and 4; (Hurricane Ivan and Hurricane Charley respectively). For Hurricane Ivan, an estimated 544,900 persons were under evacuation orders and only 33,472 evacuees were housed in public shelters (6 percent). For Hurricane Charley, which rapidly intensified a few hours before landfall, there were an estimated 2.7 million persons under evacuation orders and only 102,094 evacuees were housed in public shelters (3.75 percent).

Since publication of the *2000 Statewide Emergency Shelter Plan*, the statewide average demand has fallen from about 24 percent to about 19 percent with publication of this Plan. The practical effect is an apparent reduction in hurricane shelter space demand since 2000, though in reality this means federal, state and local agencies do not have to invest public funds to create the additional “bricks-and-mortar” shelter spaces. Currently, the Division has ongoing contracts to conduct LIDAR studies and Hurricane Evacuation Studies for all 11 Regional Planning Council (RPC) regions. The final study results were not completed in time for this document, but are expected in early 2008, and will be utilized in subsequent Plans.

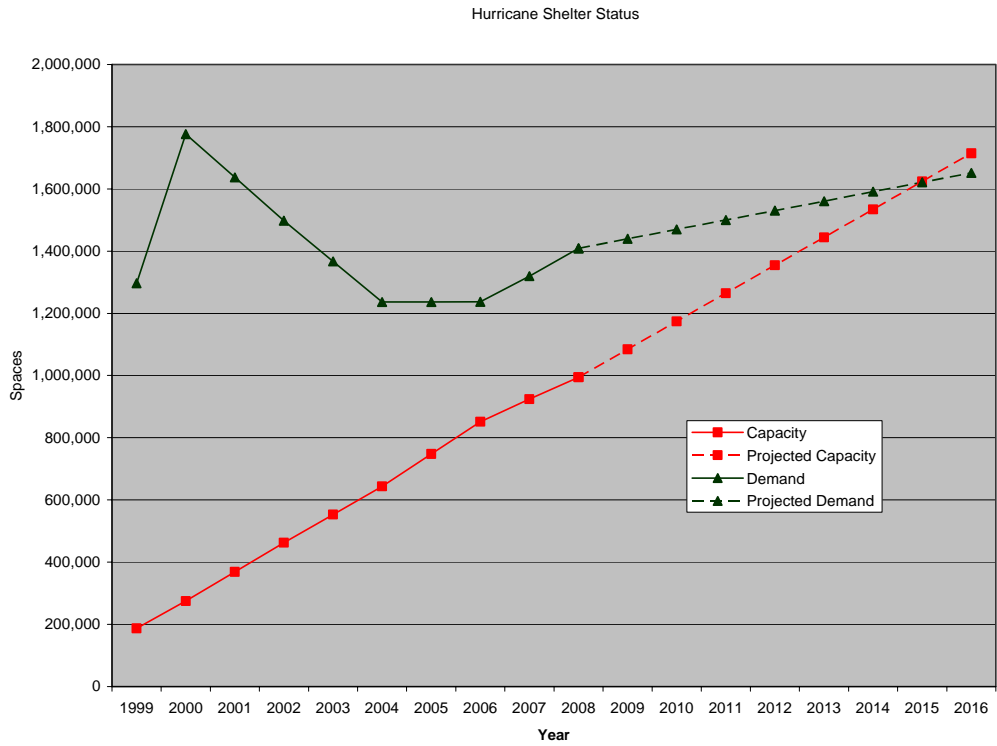
The Division has also developed a public information program to compliment the other hurricane shelter deficit reduction efforts. The Division educates residents on the

hazards they face and how to best deal with them. A key issue is whether or not to evacuate and, if so, to where. Education on the hazards and how they affect a community lead to residents making better-informed decisions in a crisis. That effort is being supported by public service announcements, hurricane expositions, training of local responders and volunteers, and through emergency messages during times of crisis. This is expected to be a long-term process that will help to reduce the need for public hurricane shelter space.

Since 1995, the Division's hurricane shelter survey and retrofit program has identified, created or otherwise documented 530,323 hurricane shelter spaces that meet ARC 4496 guidelines. Public school new construction programs have created an additional 464,046 hurricane shelter spaces. Therefore, by the 2008 hurricane season, Florida will have a total of about 994,369 shelter spaces that meet ARC 4496 guidelines. The demand for hurricane shelter space has also been significantly reduced over the past five years due to improvements in public information, storm hazard models and more accurate census data. Since 2000, Florida's deficit of hurricane shelter space has been reduced by about 72 percent, and based on current trends the Division estimates that about 90,000 spaces will be added to the State's inventory each year. As can be seen in Figure 6-1, the Division estimates that the hurricane shelter space deficit may be eliminated by 2015.

Since publication of the *2000 Statewide Emergency Shelter Plan*, Florida now has 23 counties with demonstrable surpluses of hurricane shelter space. The counties with surpluses include: Bay, Brevard, Broward, Escambia, Gilchrist, Indian River, Lake, Leon, Levy, Liberty, Madison, Manatee, Martin, Miami-Dade, Osceola, Palm Beach, St. Johns, St. Lucie, Santa Rosa, Seminole, Taylor, Union, and Washington. Also, five regions have a demonstrable surplus of hurricane shelter space.

Figure 6-1. Projected Hurricane Shelter Deficit Reduction



Note: The “spike” in shelter demand between 1999 and 2000 is an aberration primarily due to the introduction of new census data in 2000 (1999 value of shelter demand is based on 10 year old census data.)

## 7.0 CONCLUSIONS

As a result of Hurricane Andrew and the Lewis Commission Report, the State of Florida recognized the necessity of providing safe hurricane shelter space for its residents during disasters. In support of this goal, the Division, every two year, submits to the Governor and Cabinet, the *Statewide Emergency Shelter Plan*. The Plan provides a listing of “safe” public shelter spaces (and square footage) versus estimated shelter demand for each county, Regional Planning Council Region, and the State overall.

The 2008 Plan shows significant progress in reducing the deficit of “safe” public hurricane shelter space in Florida. Since 1995, more than 994,369 hurricane shelter spaces have been identified, created through retrofitting of existing buildings, or through new construction (e.g., EHPAs). As the Division continues to map Florida’s coastlines through LIDAR mapping and other improved topographic survey techniques, it is estimate that the public hurricane shelter demand will be reduced to 1,418,901 spaces for 2008. In contrast, there was an estimated shelter demand of 1,776,606 shelter spaces in 2000. Despite an increasing state population, the overall State public hurricane shelter deficit continues to shrink.

Lastly, if the current rate of shelter space production is maintained, the State’s public hurricane shelter deficit should be eliminated by 2015. this, however, cannot be achieved unless we maintain current designated hurricane shelter buildings and replace facilities that will over the years be decommissioned due to age and other issues (e.g., more preferred alternatives available, etc.) Thus, even once the deficit is eliminated, a “maintenance level” of shelter space production will be necessary to avoid falling back into a deficit situation.



**APPENDIX**

**2008 Statewide Emergency Shelter Plan**

**ALACHUA**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Alachua Elementary -	Bldg 6	13800 NW 152 Place	Alachua	32615	N	G	0	0	0		0	
Archer Community	Bldg 6/ Cafeteria	14533 SW 170 Street	Archer	32618	R	G	260	0	0			
Buchholz High -	Bldg 8	5510 NW 27th Avenue	Gainesville	32606	R	P	231	0	0	0		8/31/06-retrofitted
Buchholz High -	Bldg 9	5510 NW 27th Avenue	Gainesville	32606	R	G		0	0			
Buchholz High -	Bldg. 5/Gym	5510 NW 27th Avenue	Gainesville	32606		P	394	0	0	0		
Eastside High	Bldg 15	1201 SE 45th Terrace	Gainesville	32641	R	P	250	836	16,719		250	8/31/06-retrofitted
Eastside High	Bldg 9	1201 SE 45th Terrace	Gainesville	32641	R	G	0	0	0	73		
Eastside High -	Bldg. 7/Gym	1201 SE 45th Terrace	Gainesville	32641		P	394	0	0	0		
Fort Clarke Middle -	Bldg. 2/Gym	9301 NW 23rd Avenue	Gainesville	32606		G	297	0	0	0		
Gainesville High -	Bldg. 15/Gym	1900 NW 13th Street	Gainesville	32609		G	464	0	0	0		
Gainesville High -	Bldg. 22/Halls	1900 NW 13th Street	Gainesville	32609		G	0	0	0	58		
Hawthorne High -	Bldg. 2/Gym	602 W Lake Avenue	Hawthorne	32640		G	311	0	0	0		
Hidden Oak Elementary -	Bldg. 1/Halls	9205 NW 23rd Avenue	Gainesville	32606		G	0	0	0	173		
High Springs Community School	Bldg 5	1015 N. Main Street	High Springs	32643		G	296	0	0	296	296	
High Springs Elementary -	Bldg. 4/Halls	1015 N Main Street	High Springs	32643		G	0	0	0	116		
High Springs Elementary -	Bldg. 5/Halls	1015 N Main Street	High Springs	32643		G	0	0	0	48		
Idylwild Elementary -	Bldg. 14/Halls	4601 SW 20th Terrace	Gainesville	32608		G	0	0	0	32		
Kanapaha Middle	Bldg 3	5005 SW 75th Street	Gainesville	32608	R	G	407	407	10,200		407	8/31/06-retrofitted
Kanapaha Middle	Bldg 4	5005 SW 75th Street	Gainesville	32608	R	G	405	405	10,238		405	8/31/06-retrofitted
Kanapaha Middle	Bldg 7	5005 SW 75th Street	Gainesville	32608	R	G	0	0	0	115	0	
Kanapaha Middle	Bldg 9	5005 SW 75th Street	Gainesville	32608	R	G	0	0	0	115	0	
Kanapaha Middle	Bldg. 3/Halls	5005 SW 75th Street	Gainesville	32608		G	407	0	0	115		
Kanapaha Middle	Bldg. 4/Halls	5005 SW 75th Street	Gainesville	32608		G	405	0	0	115		
Kanapaha Middle	Bldg. 5/Gym	5005 SW 75th Street	Gainesville	32608		G	295	0	0	0		
Kanapaha Middle	Bldg. 6/Cafeteria	5005 SW 75th Street	Gainesville	32608		G	0	0	0	158		
Lincoln Middle -	Bldg. 1/Halls/Gym	1001 SE 12th Street	Gainesville	32641		G	484	0	0	0		
Mebane Middle -	Bldg. 7/Gym	1335 NE 1st Street	Alachua	32615		G	362	0	0	0		
Newberry High -	Bldg. 2/Gym	645 SW 9th Avenue	Newberry	32669		G	333	0	0	0		
Oakview Middle -	Bldg 3	701 N Main Street	Newberry	32669	R	G	405	405	9,213		405	8/31/06-retrofitted
Oakview Middle -	Bldg 4	701 N Main Street	Newberry	32669	R	G	405	405	10,216		405	8/31/06-retrofitted
Oakview Middle -	Bldg. 3/Halls	701 N Main Street	Newberry	32669		G	0	0	0	115		
Oakview Middle -	Bldg. 4/Halls	701 N Main Street	Newberry	32669		G	0	0	0	115		
Oakview Middle -	Bldg. 5/Halls/Gym	701 N Main Street	Newberry	32669		G	310	0	0	0		
Rawlings ES	Bldg 4/ Café	3500 NE 15th Street	Gainesville	32609	N	P	448	0	0			
Santa Fe High -	Bldg. 12/ Gym	US Hwy. 441	Alachua	32615		P,A	340	0	0	0		
Santa Fe HS	Bldg 34	16213 NW US Hwy 4	Alachua	32615	N	G	0	0	0			
Shell ES	Bldg 2/ Café	21633 SE 65h Avenue	Hawthorne	32640	R	G	214	0	0	214	214	
Spring Hill Middle -	Bldg. 10/ Gym	1015 N Main Street	Gainesville	32643		G	280	0	0	0		
Tacachalee	some Non-Residence Bldg	1621 NE Waldo road	Gainesville	32609			2,533					host only (60sfperclint)
Talbot Elementary	bldg 1	5701 NW 3rd Str	Gainesville	32608	R	G		0	0	0	0	
Talbot Elementary	Bldg 2	5701 NW 3rd Str	Gainesville	32608	R	G		0	0	0	0	
Talbot Elementary	Bldg 3	5701 NW 3rd Str	Gainesville	32608	R	G		172	2,000	0	172	8/31/06-retrofitted
University of Florida SW Rec	Bldg 316	Building 316	Gainesville	32607	R	G	0	2,375	47,500	0	0	
University of Florida	Reitz Union	Building 686	Gainesville	32607	R	G	0	700	14,000	0	0	
Westwood Middle -	18, Food Service	3215 NW 15th Avenue	Gainesville	32605	N	P	0	0	0			
Westwood Middle -	Bldg. 16/Gym	3215 NW 15th Avenue	Gainesville	32605		G	0	0	0	0		
<b>TOTALS FOR ALACHUA COUNTY</b>							<b>10,930</b>	<b>5,705</b>	<b>120,086</b>	<b>1,858</b>	<b>2,554</b>	
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			

2008 Statewide Emergency Shelter Plan

ALACHUA

Storm Category 4/5	5,705	6,909	-1,204	120,086			138,180	-18,094				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Comments
Buchholz High -	Bldg 8	5510 NW 27th Avenue	Gainesville	32606	R	P	0	259	15,569	0	231	8/31/06-retrofitted
Rawlings Elementary	bldg 4/ Café	3500 NE 15th Street	Gainesville	32609	N	P	0	149	8,960		120	
Westwood Middle -	18, Food Service	3215 NW 15th Avenue	Gainesville	32605	N	P		79	4,780		120	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	487	2,500	-2,013	29,309			150,000	-120,691				

**2008 Statewide Emergency Shelter Plan**

**BAKER**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Baker County Ag Center								0	0			
Baker High School	Bldg 6	1 Wildcat Drive	Glen St. Mary	32040			160	0	0	160		
Baker High School	Bldg 7	1 Wildcat Drive	Glen St. Mary	32040			160	0	0	160		
Baker High School	Bldg 8	1 Wildcat Drive	Glen St. Mary	32040			160	0	0	160		
Baker Middle School		211 E Jonathon Street	Macclenny	32063			560	0	0	560		
Frasier Memorial Hospital		159 N 3rd Street	Macclenny	32063			50	0	0	50		
Keller/Family Service Center		420 S 8th Street	Macclenny	32063			260	0	0	260		
New Macclenny Elementary	cafeteria	1 Wildkitten Drive	Macclenny	32063	N	G	295	306	6,120		306	
New Macclenny ES	A,C,D,E,F	1 Wildkitten Drive	Macclenny	32063	R	G		1,370	27,400			
Westside Elementary		1 Pather Circle	Glen St. Mary	32040				0	0			
								0	0			
<b>Totals for Baker County</b>					<b>0</b>	<b>0</b>	<b>1,645</b>	<b>1,676</b>	<b>33,520</b>	<b>1,350</b>	<b>306</b>	
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result			
Storm Category 4/5	1,676	2,678	-1,002	33,520			53,560	-20,040				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
TBD								0	0	0		
Year 2008	SpNs Shelter Capacity In Spaces(meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result			
Storm Category 4/5	0	146	-146	0			8,760	-8,760				

**2008 Statewide Emergency Shelter Plan**

<b>BAY</b>												
<b>Name</b>	<b>Bldg. #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>	<b>Retrofitted (R) or New Construction (N)</b>	<b>General (G), PSN (P), Pet-Friendly (A)</b>	<b>Host Capacity In People</b>	<b>Total Risk Capacity In People (Meets ARC 4496)</b>	<b>Total Risk Capacity (ft<sup>2</sup>) (Meets ARC 4496)</b>	<b>Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)</b>	<b>Local Planned Usage (capacity reported)</b>	<b>Comments</b>
A. Crawford Mosely High School		501 Mosley Drive	Lynn Haven	32444	R	G	3,130	0	0	0		
Bay County Fair	25	2230 E. 15th Street	Panama City	32412	R	G		0	0			HB7121
Bay Haven Charter Academy		922 Harrison Avenue	Panama City	32401	N	G		0	0	0		
Bay High School	7	1204 Harrison Avenue	Panama City	32405	R	G		967	19,340	237	967	
Bay High School		1204 Harrison Avenue	Panama City	32405	R	G	1,979	0	0			
Bozeman Learning Center	1	13410 Highway 77	Southport	32409	R	G		267	5,340	0	267	
Bozeman Learning Center	2	13410 Highway 77	Southport	32409	R	G		587	11,740	0	587	
Bozeman Learning Center	3	13410 Highway 77	Southport	32409	R	G		641	12,820	1,492	641	
Bozeman Learning Center	4	13410 Highway 77	Southport	32409	R	G		580	11,600		580	
Bozeman Learning Center	5	13410 Highway 77	Southport	32409	R	G		686	13,720		686	
Bozeman Learning Center	6	13410 Highway 77	Southport	32409	R	G		604	12,080		604	
Bozeman Learning Center	7	13410 Highway 77	Southport	32409	R	G		826	16,520		826	waived by county
Bozeman Learning Center K-8	8 (Gym)	13410 Highway 77	Southport	32409	N	G		0	0		?	EHPA? see below, frail elderly
Bozeman Learning Center K-8	9 (Dining)	13410 Highway 77	Southport	32409	N	G		0	0			
Callaway Elementary School		7115 State Road 22	Callaway	32404	R	G	972	0	0			
Cedar Grove Admin/EOC	1	2728 E. 14th Street	Cedar Grove	32401	R	G		0	0			HMGP
Cedar Grove ES	12	2826 East 15th Street	Panama City	32405	R	G		306	6,120		306	
Cedar Grove ES	13	2826 East 15th Street	Panama City	32405	R	G		206	4,120		206	
Cedar Grove PD	2	2728 E. 14th Street	Cedar Grove	32401	R	G		0	0			HMGP
Emerald Bay Academy		1515 June Ave	Panama City	32401	N	G		0	0			
Everitt Ms	9	608 School Avenue	Panama City	32401	R	G		236	4,127			
Highland Park Elementary School		2507 E Baldwin Road	Panama City	32405	R	G	2,177	0	0			
Jinks JrHS	6	600 West 11th Street	Panama City	32401	R	G		125	2,500		125	
Jinks JrHS	10	600 West 11th Street	Panama City	32401	R	G		76	1,520		76	
Lewis center	5	1527 Lincoln Avenue	Panama City	32405	R	G		55	1,100		55	waived by county
Lynn Haven Elementary School		301 W 9th Street	Lynn Haven	32444	R	G	1,068	0	0			
Merriam-Cherry St. ES	11	1125 Cherry Street	Panama City	32401	N	G		510	10,204			EHPA-per county-2007
Merritt Brown Elementary School	4	5601 Merritt Brown Road	Panama City	32404	R	G	2,694	1,237	19,969			
Millville Elementary School		203 N East Avenue	Panama City	32401	R	G	1,990	0	0			
MK Lewis (Disabled)	1	1527 Lincoln Avenue	Panama City	32405	R	G	167	167	3,338	167		HB7121
Moore Elementary School	10 or 2	1900 Michigan Avenue	Panama City	32405	R	G		171	3,115			
Moore Elementary School	11 or 3	1900 Michigan Avenue	Panama City	32405	R	G		435	9,216			
Moore Elementary School	12 or 4	1900 Michigan Avenue	Panama City	32405	R	G		396	7,380			
Moore Elementary School	13 or 5	1900 Michigan Avenue	Panama City	32405	R	G		60	925			
Mowat MS	11	1903 Hwy 390	Panama City	33444	R	G		139	2,780		139	
New Horizons Learning C	2	3100 Minnesota Ave	Panama City	32405	N	G		628	12,558			EHPA-per county-2007
Northside Elementary School		2001 Northside Drive	Panama City	32401	R	P		0	0			
Oakland Terrace ES	9	2010 W. 12th Street	Panama City	32401	N	G		400	8,003			EHPA-per county-2007
Oakland Terrace ES	13	2010 West 12th Street	Panama City	32401	R	G		294	5,880		294	
Oakland Terrace ES	14	2010 West 12th Street	Panama City	32401	R	G		258	5,160		258	
Parker ES	2	640 S. Hwy. 22A	Panama City	32404	N	G		469	9,380			EHPA-per county-2007
Pattersen ES	2	1025 Redwood Avenue	Panama City	32401	R	G	292	291	5,828	291		HB7121
Pattersen ES	16	1025 Redwood Avenue	Panama City	32401	R	G	427	427	8,542	427		HB7121
rosenwald JrHS	13	1310 East 11th Street	Panama City	32401	R	G		202	4,040	1,351	202	
Rutherford High School	2	1000 School Avenue	Panama City	32401	R	G		237	4,740		237	
Rutherford High School	12	1000 School Avenue	Springfield	32401	R	G	180	180	3,585	180		HB7121
Rutherford High School	13	1000 School Avenue	Springfield	32401	R	G	572	572	7,170	572		HB7121
Rutherford High School	14	1000 School Avenue	Springfield	32401	R	G	351	351	7,017	351		HB7121
Rutherford High School	15	1000 School Avenue	Springfield	32401	R	G	219	219	4,377	219		HB7121

**2008 Statewide Emergency Shelter Plan**

<b>BAY</b>													
Rutherford High School		1000 School Avenue	Panama City	32401	R	G	3,782	0	0	375			
Springfield Elementary School	14	520 School Avenue	Panama City	32401	R	G		245	4,900		245		
Springfield Elementary School	15	520 School Avenue	Panama City	32401	R	G		255	5,100	0	255		
Suffside Middle School	4	300 Nautilus Street	Panama City Beach	32407	R	G		1,111	16,668				
Surfside Middle School	5	300 Nautilus Street	Panama City Beach	32407	R	G		302	4,537				
T. Smith Elementary School	1	5044 Tommy Smith Way	Panama City	32404	R	G	2,344	504	7,346				
T. Smith Elementary School	2	5044 Tommy Smith Way	Panama City	32404	R	G		518	7,777				
T. Smith Elementary School	3	5044 Tommy Smith Way	Panama City	32404	R	G		201	3,735				
T. Smith Elementary School	4	5044 Tommy Smith Way	Panama City	32404	R	G		249	3,746	240			
Waller Elementary School	1	11332 Highway 388	Fountain	32466	R	G	526	526	10,527	526		HB7121	
Waller Elementary School	3	11332 Hwy 338	Youngstown	32466	R	G		109	1,638				
Waller Elementary School	4	11332 Hwy 338	Youngstown	32466	R	G		235	3,538				
Waller Elementary School	5	11332 Highway 388	Fountain	32466	R	G	441	441	8,819	441		HB7121	
<b>TOTALS FOR BAY COUNTY</b>								<b>23,311</b>	<b>18,501</b>	<b>344,185</b>	<b>5,662</b>	<b>7,556</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>				
Storm Category 4/5	18,501	13,071	5,430	344,185			261,420	82,765					
<b>Special Needs Storm Shelters</b>													
<b>Name</b>	<b>Bldg #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>			<b>Emergency Powered HVAC?</b>	<b>SpNS Capacity (spaces @ 60sf) (meets ARC 4496)</b>	<b>SpNs Capacity (sf) (meets ARC 4496)</b>	<b>SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)</b>	<b>Local Planned Usage (capacity reported)</b>	<b>Comments</b>	
Bozeman Learning Center K-7	Cafeteria 9	13410 Highway 77	Southport	32409	N	P	No	123	7,434		108		
Bozeman Learning Center K-8	8 (Gym)	13410 Highway 77	Southport	32409	N	P	No	192	11,534				
Haney Votech	1-Admin/3-St	3016 Hwy 77	Panama City	32405	N	P	No	821	49260		594	No official capacity	
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>				
Storm Category 4/5	1,136	2,233	-1,097	7,434			133,980	-126,546					

**2008 Statewide Emergency Shelter Plan**

<b>BREVARD</b>												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496, or Not Yet Surveyed)	Local Planned Usage (capacity reported)	Comments
Anderson Elementary School	2 (3,4,5)	3011 S Fiske Boulevard	Rockledge	32955	R	G	700	700.00	17,491		473	
Anderson Elementary School	3	3011 S Fiske Boulevard	Rockledge	32955	R	G						
Anderson Elementary School	4	3011 S Fiske Boulevard	Rockledge	32955	R	G						
Anderson Elementary School	5	3011 S Fiske Boulevard	Rockledge	32955	R	G						
Apollo Elementary School	2,3,4,5	3085 Knox McCreath Drive	Titusville	32780	R	G	700	602.00	10,610		602	
Astronaut High School	400wing & 800 wing	800 War Eagle Boulevard	Titusville	32796	R	G	150	264.00	6,594		75	
Atlantis Elementary	1 thru 6	7300 Briggs Avenue	Port St. John	32927	R	G	900	1,045.00	26,134		760	
Bayside High School	1	1901 DeGroot	Palm Bay	32908	R	G		96.00	1,911			
Bayside High School	2	1901 DeGroot	Palm Bay	32908	R	G		357.00	7,143			
Bayside High School	3	1901 DeGroot	Palm Bay	32908	R	G		353.00	7,054			
Bayside High School	5	1901 DeGroot	Palm Bay	32908	R	G		318.00	6,350			
Bayside High School	6	1901 DeGroot	Palm Bay	32908	R	G		2,304.00	46,078			
Bayside High School	7							1,323.00	26,453			
Bayside High School	4-Gym	1901 DeGroot	Palm Bay	32908	N	P	3,100	1,028.00	20,566			
Bayside High School	campus	1901 DeGroot	Palm Bay	32908	N	G		0.00	0		1,875	
Brevard Community College- Palm Bay	5	250 Community college Pkwy	Palm Bay	32905	N		773	0.00	0		580	no information
Brevard Community College - Cocoa	3	1519 Clearlake Drive	Cocoa	32922	R	G		1,222.00	30,550		900	
Brevard Community College - Cocoa-Allied He	Bldg 20	1519 Clearlake Drive	Cocoa	32922	R	G	3,400	0.00	0		675	
Brevard Community College - Melbourne	1	3865 N Wickham Road	Melbourne	32935	R	G	1,500	596.00	8,940		750	
Brevard Community College - Melbourne	10	3865 N Wickham Road	Melbourne	32935	R	G		167.00	2,505		450	Orig- 500 spaces
Brevard Community Collgege - Melbourne	5	3865 N Wickham Road	Melbourne	32935	R	G		0.00	0			dropped
Cambridge Elementary School	12 Classrms/ 15 & 16	2000 Cambridge Drive	Cocoa	32922	N	G	550	550.00	11,000		413	
Central Middle School	4-Jan	2600 Wingate Boulevard	W Melbourne	32904	R	G	1,600	1,539.00	38,477		729	
Central Reference Library	1		Cocoa	32922	R	G		1,088.00	27,200		750	Orig- 2000 spaces
City of Palm Bay	EOC		Palm Bay	32908	N	G		150.00	3,000		113	
Discovery Elementary School	1	1275 Glendale Avenue NW	Palm Bay	32905	R	G	900	204.00	4,073		300	Orig- 1500 spaces
Discovery Elementary School	2	1275 Glendale Avenue NW	Palm Bay	32905	R	G		294.00	5,880		1,048	bldg 1-6 totalled only
Discovery Elementary School	3	1275 Glendale Avenue NW	Palm Bay	32905	R	G		400.00	7,999			
Discovery Elementary School	4	1275 Glendale Avenue NW	Palm Bay	32905	R	G		335.00	6,693			
Discovery Elementary School	5	1275 Glendale Avenue NW	Palm Bay	32905	R	G		386.00	7,729			
Discovery Elementary School	6	1275 Glendale Avenue NW	Palm Bay	32905	R	G		135.00	2,690			
Discovery Elementary School	10	1275 Glendale Avenue NW	Palm Bay	32905	N	G		283.00	5,653			EHPA
Eau Gallie High School	22-Aud	1400 Commodore Blvd	Melbourne	32935	R	G		800.00	10,519		600	
Eau Gallie High School	37-Science	1400 Commodore Blvd	Melbourne	32935	R	G	1,700	0.00	0		439	
Endeavor Elementary School	13-12 Rms	905 Pineda Street	Cocoa	32922	N	G	600	600.00	12,000		450	
Enterprise Elementary School	1 thru 6	7000 Enterprise Road	Port St. John	32927	R	G	900	1,147.00	28,669		701	
High School (CCC)	3A and Bldg 7	Malabar Rd	Palm Bay	32908	N	G		3,599.00	71,979			Aug 2009 completion
Imperial Estates Elementary School	5 thru 8	5525 Kathy Drive	Titusville	32780	R	G	850	556.00	13,882		436	
John F. Turner Sr. Elementary School	2- & 3 (14 Rooms)	3175 Jupiter Blvd SE	Palm Bay	32909	N	G	600	600.00	12,000		450	
Jupiter Elementary School	1 thru 6	950 Tupelo Road SW	Palm Bay	32908	R	G	900	1,039.00	25,982		750	
Long Leaf Elementary School		4290 N Wickham Road	Melbourne	32935	R	G	1,000	1,506.00	37,646		1,101	
Manatee Elementary School	1	3425 Solerno Boulevard	Viera	32940	N	G	1,100	1,100.00	22,000		947	
Meadowlane Elementary School	1 thru 6	2800 Wingate Boulevard	Melbourne	32904	R	G	900	983.00	24,563		731	
Meadowlane IS	1	Wingate Blvd	Melbourne	32904	N	G		6,686.00	6,686	133,719		Sept 2007 completion
Melbourne High School	1 & 8	74 Bulldog Way	Melbourne	32901	R	G	1,200	1,095.00	27,380		599	
Melbourne HS	18	74 Bulldog Blvd	Melbourne	32901	N	G		1,892.00	1,892	37,834		Aug 2008 completion
Mims Elementary School	13 (new wing)	2582 US 1	Mims	32754	N	G	600	292.00	7,295		228	
Oak Park Elementary School	2,5,6,7,8	3395 Dairy Road		32796	R	P	500	0.00	0		375	
Pinewood Elementary School	4	3654 Lionel Road	Mims	32754	R	G	900	405.00	10,130		360	

**2008 Statewide Emergency Shelter Plan**

<b>BREVARD</b>													
Port St. John Community Center	Center	6650 Corto Rd	Port St. John	32927	R	A		331.00	4,962		375	Orig - 600	
Quest Elementary School	1	8751 Trafford Drive	Melbourne	32940	N	G	1100	1,100.00	22,000		1,056		
Ralph Williams Junior Elementary	1	1700 Clubhouse Drive	Rockledge	32955	N	P	750	0.00	0		750		
Riviera Elementary School	1 thru 6	351 Riviera Drive NE	Palm Bay	32905	R	G	900	1,106.00	27,650		981		
Rockledge High School	1,2,8,16	220 Raider Drive	Rockledge	32955	R	G	1,500	400.00	12,603		513	Orig- 500 spaces	
Roy Allen ES	6	2601 Fountianhead	Melbourne	32909	N	G	1,000	1,142.00	28,542		750		
Sherwood Elementray School	1	2541 Post Road	Melbourne	32935	R	P	750	1,882.00	37,640		563		
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976	N	P	350	0.00	0		225	Orig- 650	
South Mainland (Micco)	Main (1)	3700 Allen Avenue	Micco	32976	R	G	150	150.00	3,000		68		
Southwest Junior High School		451 Eldron Boulevard SE	Palm Bay	32909				1,000	0.00	0	750		
Space Coast Jr/Sr HS	1	6150 Banyan Street	Port St. John	32927	R,N	G	1,300	300.00	6,000		300	EHPA	
Space Coast Middle School	1st floor	6150 Banyan Street	Port St. John	32927	R	G	1,300	600.00	12,000		675		
Space Coast Middle School	2nd floor	6150 Banyan Street	Port St. John	32927	R	G		600.00	12,000		600		
Suntree Elementary School	1 thru 6	900 Pinehurst Avenue	Melbourne	32940	R	G	900	1,061.00	26,534		907		
Viera HS	2, 6	6103 Stadium Parkway	Viera	32940	N	G		1,100.00	58,751		1,100	Ehpa per County-Aug 06 completed	
Westside Elementary School	1	2175 DeGroot Road SW	Palm Bay	32908	R	G	1,000	1,571.00	39,281		998		
Westside Elementary School	4 (2005)	2175 DeGroot Road SW	Palm Bay	32908	R	G		188.00	3,765				
<b>TOTALS FOR BREVARD COUNTY</b>								<b>38,023</b>	<b>49,570</b>	<b>946,124</b>	<b>171,553</b>	<b>29,271</b>	
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>				
Storm Category 4/5	49,570	16,647	32,923	946,124			332,940	613,184					
<b>Special Needs Storm Shelters</b>													
<b>Name</b>	<b>Bldg #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>			<b>Emergency Powered HVAC?</b>	<b>SpNS Capacity (spaces @ 60sf) (meets ARC 4496)</b>	<b>SpNs Capacity (sf) (meets ARC 4496)</b>	<b>SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)</b>	<b>Local Planned Usage (capacity reported)</b>	<b>Comments</b>	
Oak Park ES (Prio 4)	2,5,6,7,8	3395 Dairy Road	Titusville	32796	R	P	no	199	11981		333		
Quest ES	1	8751 Trafford Drive	Melbourne	32940	N	P		366	22000		350	EHPA	
Ralph Williams ES (pri 1)	Main	1700 Clubhouse Drive	Rockledge	32955	N	P	no	636	38206		666		
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976	R	P	no	400	24000		400	Generator completed jan1, 2008	
Sunrise ES	Main	1651 Mara Loma Blvd SE	Palm Bay	32909	N	P		366	21960		366	EHPA	
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>				
Storm Category 4/5	1,967	2,000	-33	118,020			120,000	-1,980					



2008 Statewide Emergency Shelter Plan

**BROWARD**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Arthur Ashe Middle School/Rock	1 or 3701	1701 NW 23 Avenue	Ft. Lauderdale	33311	N	G		2,400	38,356		2,400	Primary Shelter
Challenger Elementary	1 or 3771	5703 NW 94th Avenue	Tamarac	33321	N	Alt Arc		815	51,039		800	Primary Shelter,
Coconut Creek High School		1400 NW 44th Avenue	Coconut Creek	33066			900	0	0	1,800		
Coconut Palm Elementary	1	13601 Monarch lakes Blvd	Miramar	33027	N	G		1,210	48,905		800	Secondary Shelter
Coral Cove ES		5100 SW 148 Ave	Miramar	33027							800	Tertiary Shelter
Coral Glades High School	3	2700 Sportsplex Dr.	Coral Springs	33065	N	G	900	1,800	43,192		1,800	Primary Shelter
Coral Springs High School		7201 W Sample Road	Coral Springs	33065			900	0	0	1,800		
Dolphin Bay ES		16450 Miramar Parkway	Miramar	33027	N	G		815	48,700			
Everglades Elementary	1 or 2942	2900 Bonaventure Blvd	Weston	33331	N	G	450	815	48,697		800	Secondary Shelter
Everglades High School	2 or 3731	17100 SW 48th Ct	Miramar	33027	N	G		1,800	58,672		1,800	Secondary Shelter
Falcon Cove Middle School	3 or 2431	4251 Bonaventure Blvd	Weston	33332	N	G	500	1,440	25,547		1,200	Primary Shelter
Floranda Elementary School	851	5251 NE 14th Way	Ft. Lauderdale	33334	N&R	G	0	0	0		800	Tertiary Shelter
Fox Trail Elementary School	1 or 3531	1250 Nob Hill Road	Davie	33324	N	G	450	1,210	50,923		800	Primary Shelter
Gator Run Elementary	1 or 3641	1101 Arvida Parkway	Weston	33327	N	G		815	48,846		800	Secondary Shelter
Hallandale Elementary	3 or 131	900 SW 8th Street	Hallandale	33009	N	G	450	575	33,645		300	Tertiary Shelter
Lakeside Elementary School	1 or 3591	900 NW 136 Avenue	Pembroke Pines	33026	N	G	450	1,210	50,535		800	Secondary Shelter
Liberty Elementary	1 or 3821	2450 Banks Road	Margate	33063	N	G		815	49,044		800	Tertiary Shelter
Lyons Creek Middle School	1 or 3101	4333 Sol Press Blvd	Coconut Creek	33073	N	G	500	1,790	66,952		1,200	Primary
Manatee Bay Elementary	1 or 3831	19200 SW 36	Weston	33331	N	G		815	48,897		800	Tertiary Shelter
Millenium MS		5803 NW 94th Avenue	Tamarac	33321	N	A	500	0	0		500	Primary, Pet-Friendly
Monarch High School	2 or 3541	5050 Wiles Rd	Coconut Creek	33073	N	G		1,800	26,731		1,800	Primary Shelter
New Renaissance Middle	3 or 3671	10701 Miramar	Miramar	33025	N	G		2,430	25,203		1,200	Primary Shelter
Orange Brook ES		715 S. 46th Avenue	Hollywood	33021	N	G		815	48,700			
Panther Run Elementary School	1 or 3571	801 NW 172 Avenue	Pembroke Pines	33328	N	G	450	1,210	50,685		800	Tertiary Shelter
Park Lake Elementary	1 or 3761	3925 N. State Road 7	Lauderdale Lakes	33319	N	G		1,210	50,797		800	Primary Shelter
Park Trails Elementary	1	10700 Trails End	Parkland	33076	N	G		1,210	51,735		800	Tertiary Shelter
Parkside Elementary School	1 or 3631	10257 NW 29th Street	Coral Springs	33065	N	G	450	890	49,068		800	Secondary Shelter
Pines MS		200 NW Douglas Road	Pembroke Pines	33024	N	G		1,210	50,700			
Plantation Elementary	1 or 941	651 NW 42nd Avenue	Plantation	33317	N	G	450	815	51,246		800	Primary Shelter
Pompano Beach High School	181	600 NE 13 th Avenue	Pompano Beach	33060	N	G		1,800	36,000		1,800	Primary Shelter
Silver Lakes Elementary School	1 or 3371	2300 SW 173 Avenue	Miramar	33029	N	G	400	1,210	51,090		800	Tertiary Shelter
Silver Palms Elementary School	1 or 3371	1209 NW 155th Avenue	Pembroke Pines	33028	N	G	450	1,210	49,844		800	Secondary Shelter
Silver Shores Elementary	1 or 3581	1701 SW 160 Avenue	Miramar	33027	N	G		815	48,950		800	Tertiary Shelter
Silver Trails Middle School	2 or 3331	18300 Sheridan Street	Pembroke Pines	33331	N	G	500	1,790	26,481		1,200	Primary Shelter
Sunset Lakes Elementary	1 or 3661	18400 SW 25th Street	Miramar	33027	N	G		1,210	49,317		800	Tertiary Shelter
Tradewinds Elementary	1 or 3481	5400 Johnson Road	Coconut Creek	33073	N	G	450	1,210	49,528		800	Secondary Shelter
Watkins Elementary School	1 or 511	6250 SW 52nd Ave	Pembroke Park	33023	N	G	450	815	51,031		800	Primary Shelter
								0	0			
<b>TOTALS FOR BROWARD COUNTY</b>							<b>9,600</b>	<b>39,975</b>	<b>1,479,056</b>	<b>3,600</b>	<b>32,000</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft<sup>2</sup>)</b>			<b>Shelter Demand (ft<sup>2</sup>)</b>	<b>Surplus/ Deficit (ft<sup>2</sup>)</b>	<b>Result</b>			
Storm Category 4/5	39,975	36,194	3,781	1,479,056			723,880	755,176				
<b>Special Needs Storm Shelters</b>												

**2008 Statewide Emergency Shelter Plan**

**BROWARD**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	
Indian Ridge MS (3rd Priority)	2 or 3471	1355 Nob Hill Road	Davie	33324	N	P	No	441	26,481		250	
McNichols MS (2nd Priority)		1602 S. 27th Ave.	Hollywood	33020	N	P	No	423	25,390		250	
New River MS (4th Priority)		3100 Riverland Rd	Ft. Lauderdale	33312	N	P	No	404	24,295		250	
Sunset Learning Cntr (1st Priority) (Sunset School)		3775 SW 16th St.	Ft. Lauderdale	33312	N	P	No	533	31,980		25	
WestGlades MS (5th Priority)	3	11000 Holmnerg Road	Parkland	33076	N	P	No	420	25,203		25	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	2,221	349	1,872	133,260			20,940	112,320				

**2008 Statewide Emergency Shelter Plan**

<b>CALHOUN</b>												
Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Construct ion (N)	Gener al (G), PSN (P), Pet - Friend ly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planne Usage (reported capacity)	Comments
Altha High School		Main Street	Altha	32421			0	0	0			
Carr Elementray/Middle School		Highway 73 North	Altha	32430			0	0	0			
Blountstown Elementray School		Fuller Warren Drive	Blountstown	32424			1,626	0	0			
Blountstown Middle School		611 Mathaw Drive	Blountstown	32424			893	0	0			
Blountstown High School		614 North Main Street	Blountstown	32424			1,884	0	0			
								0	0			
<b>TOTALS FOR CALHOUN COUNTY</b>							<b>4,403</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	0	1,072	-1,072	0			21,440	-21,440				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planne Usage (reported capacity)	Comments
<b>Uses Regional Shelter</b>												
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	0	51	-51	0			3,060	-3,060				

**2008 Statewide Emergency Shelter Plan**

**CHARLOTTE**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Local Planned usage (capacity reported)	Comments	
Liberty ES	café & hallways	23000 Midway Blvd NE	Port Charlotte	33952	R	G	500	351	5,259	500	exiting storm only (open span?)	
Port Charlotte MS	café & hallways	370 Atwater Street	Port Charlotte	39952	R	G	1000	916	13,739	1,000	exiting storm only	
Kingsway ES	1st floor	23300 Quasar Blvd	Port Charlotte	33980	R	G		1,860	27,904	2,000	0	
							0	0				
<b>TOTALS FOR CHARLOTTE COUNTY</b>							<b>1,500</b>	<b>3,127</b>	<b>46,902</b>	<b>3,500</b>	<b>0</b>	

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/Deficit In People	Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/Deficit (ft <sup>2</sup> )	Result
Storm Category 4/5	3,127	31,095	-27,968	46,902			621,900	-574,998	

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	local planned usage	Comments
First Christian Church		20212 Peachland Blvd	Port Charlotte	33954	R	P	Portable	0	0		
								0	0		

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/Deficit In Spaces	SpNs Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/Deficit (ft <sup>2</sup> )	Result
Storm Category 4/5	0	651	-651	0			39,060	-39,060	

2008 Statewide Emergency Shelter Plan

CITRUS

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (capacity reported)	Comments
Beverly Hills Lions Club		72 Beverly Hills Center	Beverly Hills	N/A			350	0	0	0		0
Church of God		416 South Hwy 41	Inverness	N/A			1,394	0	0	0		0
Citrus High School	16	600 West Highland Blvd	Inverness	N/A	R	G		254	6,357		227	
Citrus High School	17	600 West Highland Blvd	Inverness	N/A	R	G		247	5,940		247	
Citrus High School	café/21	600 West Highland Blvd	Inverness	34452	N	G	2,418	0	0	2,418	544	0
Citrus Springs Elementary School		3570 West Century Blvd	Citrus Springs	N/A			1,500	0	0	1,500		0
Citrus Springs MS	1	150 W Citrus Springs Blvd	Citrus Springs	N/A	R	G		76	1,574		107	0
Citrus Springs MS	2	150 W Citrus Springs Blvd	Citrus Springs	N/A	R	G		262	6,542		171	0
Citrus Springs MS	3	150 W Citrus Springs Blvd	Citrus Springs	N/A	R	G		437	7,319		379	0
Citrus Springs MS	4	150 W Citrus Springs Blvd	Citrus Springs	N/A	R	G		437	7,319		379	0
Citrus Springs MS	8	150 W Citrus Springs Blvd	Citrus Springs	N/A	R	G		237	5,922		208	0
First Assembly Church		4201 South Pleasant Grove Rd	Inverness	N/A			800	0	0	0		0
First Baptist Church		8545 E Magnolia	Floral City	N/A			400	0	0	0		0
First Baptist Church of Inverness		123 S Seminole Avenue	Inverness	N/A			200	0	0	0		0
First Christian Church		1005 Hillside Court	Inverness	N/A			400	0	0	0		0
First Lutheran Church		1900 W Highway 44	Inverness	N/A			400	0	0	0		0
First Presbyterian Church		206 Washington Avenue	Inverness	N/A			400	0	0	0		0
Floral City Community Center		8370 E. Orange Avenue	Floral City	N/A			200	0	0	0		0
Floral City Elementary School		8457 E Marvin Street	Floral City	N/A			543	0	0	543		0
Forest Ridge Elementary School	1	2927 North Forest Ridge	Hernando	34442	R	G		2,800	42,131		2,800	
Hernando Elementary School		2353 N Croft Avenue	Hernando	N/A			1,500	0	0	600		0
Highlands Emergency Center		4325 S Little Al Point	Inverness	N/A			400	0	0	0		0
Hope Evangelical Lutheran Church		9425 N Citrus Springs Blvd	Citrus Springs	N/A			150	0	0	0		0
Inverness Middle School		1950 North US Highway 41	Inverness	N/A			2,157	0	0	2,157		0
Inverness Primary School		206 South Lime Avenue	Inverness	N/A			1,299	0	0	1,299		0
Lecanto High School		3810 W Education Path	Lecanto	N/A			3,400	0	0	3,400		0
Lecanto Middle School		3800 W Education Path	Lecanto	N/A			2,519	0	0	0		0
Lecanto Primary School		3790 W Education Path	Lecanto	N/A		P	1,869	0	0	1,869		0
Main Street Baptist Church		960 S Highway 41	Inverness	N/A			400	0	0	0		0
Our Lady of Fatima		550 S Highway 41	Inverness	N/A			400	0	0	0		0
Pleasant Grove Elementary		630 Pleasant Grove Road	Inverness	N/A			1,500	0	0	600		0
Riverside Christian Church		7771 N Carl G. Rose Hwy	Hernando	N/A			100	0	0	0		0
Rock Crusher Elementary		814 S Rock Crusher Road	Crystal River	N/A			1,500	0	0	1,500		0
St. Elizabeth Anne Seton Hall		1180 Country Club B	Dunnellon	N/A			450	0	0	0		0
St. Margaret Episcopal Church		114 N Osceola Avenue	Inverness	N/A			100	0	0	0		0
V.F.W. Leroy Rokks		1930 S Highway 200	Hernando	N/A			200	0	0	0		0
Withlacoochee Vocational Technical School		1201 W Main Hwy 44 West	Inverness	N/A		P	2,075	0	0	2,075		0
<b>TOTALS FOR CITRUS COUNTY</b>							<b>29,024</b>	<b>4,750</b>	<b>83,104</b>	<b>17,961</b>	<b>5,062</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	4,750	8,379	-3,629	83,104			167,580	-84,476				
<b>Special Needs Storm Shelters</b>												

2008 Statewide Emergency Shelter Plan

CITRUS

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
Citrus High School	café/21	600 West Highland Blvd	Inverness	34452	N	P		138	8,290	806		
Inverness MS		1950 North US Highway 41	Inverness			P	No	0	0	0		
Lecanto MS		3800 W Education Path	Lecanto			P	No	0	0	100		
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	138	450	-312	8,280			27,000	-18,720				

**2008 Statewide Emergency Shelter Plan**

CLAY												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Const ruction (N)	Gener al (G), PSN (P), Pet - Friend ly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Argyle Elementary	Cafeteria, 2	2625 Spencer Plantation Blvd	OP	32073	N	G		225	5,285		225	
C.E. Bennett Elementary School		1 South Oakridge Avenue	Gr Cove Springs	32043			397	0	0	397		
Clay High School	Cafeteria, 8	2025 SR 16 West	Gr Cove Springs	32043		G	932	0	0	932		
Clay Hill Elementary School	5	6345 CR 218	Jacksonville	32234	R	G	200	263	5,074		263	ARC 4496
Coppergate Elementary	Cafeteria	2250 CR 209 North	Middleburg	32068	N	G	311	311	6,220			ARC 4496
Doctor's Inlet Elementary School		2634 SR 220	Doctor's Inlet	32030			200	0	0	200		
Elementary "Z"	Cafetorium	4150 Plantation Oaks Blvd	Orange Park	32065	N	G	273	273	5,448		273	Projected online Aug 09
Fleming Island Elementary School		4425 Lake Shore Drive	Orange Park	32073			200	0	0	200		
Fleming Island High		2233 Village Square Parkway	Orange Park	32003			466	0	0		466	EHPA EXEMPT
Green Cove Springs HS	Cafeteria, 8	1220 Bonaventure Avenue	Gr Cove Springs	32043	R	G	443	0	0	341	443	will not meet aRC4496-roof overhangs
Grove Park Elementary School		1643 Miller Street	Orange Park	32073			383	0	0	383		
Keystone Heights Elementary School		335 South Pecan Street	Keystone Heights	32656			343	0	0	343		
Keystone Heights HS	Band, 7	900 SW Orchid Avenue	Keystone Heights	32656	R	G	184	184	3,683		184	
Keystone Heights HS	Cafeteria,5	900 SW Orchid Avenue	Keystone Heights	32656			584	0	0	584	584	No ARC 4496
Keystone Heights HS	Gym, 9	900 SW Orchid Avenue	Keystone Heights	32656	R	G	859	859	17,186		859	
Lake Asbury Elementary School	6	2901 Sandridge Road	Gr Cove Springs	32043	R	G	245	265	5,410		245	
Lake Asbury Elementary School	7	2901 Sandridge Road	Gr Cove Springs	32043	R	G	267	265	5,959		267	
Lake Asbury Junior HS	1	2851 Sandridge Rd	GCS	30243	N	G	343	343	5,971		349	
Lakeside Elementary School	6	2752 Moody Road	Orange Park	32073	R	G	257	263	5,154		257	
Lakeside Elementary School	7	2752 Moody Road	Orange Park	32073	R	G	247	263	4,956		247	
Lakeside Jr. High School		2750 Moody Road	Orange Park	32073			200	0	0	200		
McRae Elementary School	Cafeteria , 2	6770 CR 315	Keystone Heights	32656			252	0	0	252	252	
Middleburg Elementary School		3985 Main Street	Middleburg	32068			200	0	0	200		
Middleburg High School		3802 SR 220	Middleburg	32068			500	0	0	500		
Montclair Elementary School	4	2398 Moody Road	Orange Park	32073	R	G	243	265	5,409		243	01CP-10-04-2003-103
Montclair Elementary School	5	2398 Moody Road	Orange Park	32073	R	G	218	265	5,372		218	
Oakleaf Elementary	Bldg 1 (café and multipurpose)	4085 Plantation Oaks Blvd	Orange Park	32073	N	G	272	272	5,448		272	EHPA
Oakleaf Village ES	Cafetorium	410 Oakleaf Village Park	Orange Park	32065	N	G	273	273	5,448		273	online August 08
Orange Park Elementary School		1401 Plainfield Avenue	Orange Park	32073			254	0	0	254		
Orange Park High School	Cafeteria, 10	2300 Kingsley Avenue	Orange Park	32073			746	0	0	746	746	Shuttered-needs wall reinforcement
Orange Park Jr. High School		1500 Gano Avenue	Orange Park	32073			200	0	0	200		
Paterson Elementary School		5400 Pine Avenue	Orange Park	32073			200	0	0	200		
Rideout Elementary School	1	3065 Apalachicola Blvd	Middleburg	32068	N	G	1,945	395	7,900		1,945	only north wing is EHPA
Ridgeview Elementary School		421 Jefferson Avenue	Orange Park	32065			200	0	0	200		
Ridgeview High School		466 Madison Avenue	Orange Park	32065			500	0	0	500		
S. Bryan Jennings Elementary School		215 Corona Drive	Orange Park	32073			482	0	0	482		
Shadowlawn ES	Cafetorium	2945 CR 218	Green Cove Springs	32043	N	G	273	273	5,448		273	online August 08
St. Johns River Com Col (Thrasher Bldg	2	285 College Drive	Orange Park	32065	R	P		0	0			00-EO-C9-13-00-22-017
St. Johns River Community College	D	285 College Drive	Orange Park	32065	R	P	302	0	0			
St. Johns River Community College	V	285 College Drive	Orange Park	32065	R	P		0	0			
Tynes Elementary School - Bldg. 1/Cafe	1	1550 Tynes Boulevard	Middleburg	32068				0	0	350		
Tynes ES	Cafeteria,2	1550 Tynes Boulevard	Middleburg	32068	R	G	213	244	4,881		213	roof questions?
W.E. Cherry Elem School - Wilkinson ES	Bldg 1/Cafetorium	420 Edson Avenue	Orange Park	32073			380	0	0	380		
Wilkinson ES	5	4965 CR 218 West	Middleburg	32068	R	G	256	258	5,155		256	ANSI A58.1
Wilkinson Jr. High School		5005 CR 218 West	Middleburg	32068				0	0	500		
								0	0			
								0	0			

**2008 Statewide Emergency Shelter Plan**

<b>CLAY</b>												
TOTALS FOR CLAY COUNTY							15,243	5,759	115,407	8,344	9,353	0
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	5,759	21,696	-15,937	115,407			433,920	-318,513				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local planned usage	Comments
St. Johns River Community College	Thrasher/ 2	285 College Drive	Orange Park	32065	R	P	Yes	52	3,130		98	
St. Johns River Community College	D	285 College Drive	Orange Park	32065	R	P		51	3,100		155	
St. Johns River Community College	V	285 College Drive	Orange Park	32065	R	P		49	2,940		147	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	152	400	-248	9,120			24,000	-14,880				



2008 Statewide Emergency Shelter Plan

COLLIER												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Ave Maria University	Main	SR 858	Immokalee	34121	N	G	500	0	0		500	not public shelter att
Baron Collier High School	Main/Café/Gym	5600 Cougar Lane	Naples	34105	R	P	2500	2,344	46,895			exiting storm only
Big Cypress Elementary	2	3250 Golden Gate Blvd	Naples	34116	R	G	750	256	3,845		750	exiting storm only - ARC exception
Calusia Park Elementary	Café& 4 clrms	4600 Santa Barbara Blvd	Naples	34104	N	G	250	975	24,384		500	exiting storm only
Corkscrew Middle School	Gym/café	419 First Street	Immokalee	34142	R	G	750	392	5,876		1,000	
Cypress Palm Middle School	2&4	4255 18th Ave, NE	Naples	34120	N		750	750	20,000			Available 2008-exiting storm?-Cat 5-
Elementary School "G"	Café	2900 Titan Way	Naples	34116	N			500	20,000			exiting storm?
Golden Gate High School	1,2,3,4 (café/gym)	29215 Magnolia Pond Rd	Naples	34116	N	G		2,233	33,495		2,500	exiting storm only-new school-ehpa
Golden Gate Elementary		491 1 20th Pl, SW	Naples	34116	N	G	375	1,500	30,826		1,500	exiting storm only - ARC exception
Golden Gate Middle School		2701 48th Terr Sw	Naples	34116	N	G	375	1,500	30,000		1,500	exiting storm only
Golden Terrace Elementary	Café/Gym	2711 44th Terrace SW	Naples	33999	R	G	500	280	4,199		400	exiting storm only
Gulf Coast High School	Gym	7878 Immokalee Blvd	Naples	34110	R	G	1,500	1,442	21,624		2,500	exiting storm only
Highlands Elementary School	Café/Lib	1101 Lake Trafford Road	Immokalee	34142	R	G	250	500	10,000			
Immokalee Friendship House	Main	602 West Main Street	Immokalee	34112	N	G	500	600	12,000		600	
Immokalee High School		710 Immokalee Road	Immokalee	34142			600	0	0		2,000	need to confirm shutters and which bldgs.
Immokalee Middle School	Café 8/9	3500 Lake Trafford Road	Immokalee	34142	R	G	1,000	857	12,860		1,000	
Lake Trafford Elementary School	Café/Gym	3500 Lake Trafford Road	Immokalee	34142	R	G	250	500	10,000			
Laurel Oak Elementary	2	7800 Immokalee Road	Naples	33942			250	264	3,954		500	exiting storm only - ARC exception
Lely High	Gym	1 Lely High School Blvd	Naples	34113	N	G	500	2,500	50,000		2,500	exiting storm only
Manatee Elementary	Gym	1880 Manatee RD	Naples	34114	N	G	250	0	0			
North Naples Middle School	Café/Gym	16165 Livingston Rd	Naples	34119	N	G	500	1,000	18,853		1,000	new School- ehpa- exiting storm only?
North Naples Regional Park	Admin	15000 Livingston Road	Naples	34109	N	G/A	500	500	10,000		500	Pet Friendly-exiting storm only
Oak Ridge Middle School	Café 8/9	151 State Rd 951	Naples	33999	R	G	1,000	741	11,121		1,500	exiting storm only - ARC exception
Palmetto Ridge High School	Café/Gym	1655 CR 858	Naples	34120	N	G/P		0	0			new School - primary PSN
Parkside Elementary School	Main	5322 Texas Ave	Naples	34112	N		500	500	10,000			Will replace Lely Elementary 2008-exiting storm
Pelican Marsh ES	Café	9480 airport Rd North	Naples	34109	R	G	500	0	0	334	500	exiting storm only-long span roof issues.
Pine Ridge Middle School	Main	213 S 9th Street	naplesw	34142	R	G	360	0	0		1,500	
Pinecrest Elementary School		313 9th Street South	immokalee	34142			1,000	500	10,000			
Sable Palm ES	Admin/Gym	4095 18th Ave,NE	Naples	34116	N	G	250	500	10,000		500	exiting storm only
Veterans Memorial ES	1,4	15960 Veterans Memoria	Naples	34110	N	G	500	500	10,000			
Village Oaks Elementary School	Admin	1501 SR 29	Immokalee	34142	R	G	350	750	12,647	750	750	
Vineyards Elementary School	Café/Gym	6225 Arbor Boulevard	North Naples	34119	R	G	300	902	22,554		750	exiting storm only- ARC exception
<b>TOTALS FOR COLLIER COUNTY</b>							<b>17,610</b>	<b>23,286</b>	<b>455,133</b>	<b>1,084</b>	<b>24,750</b>	

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	23,286	43,885	-20,599	455,133	877,700	-422,567	

Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergncy Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	Comments	Local Planned usage (reported capacity)	Comments
Golden Gate High School	4	2925 Titan Way (Magnolia)	Naples	34116	N	P		0	0			exiting storm only
Golden Gate High School	6	2925 Titan Way (Magnolia)	Naples	34116	N	P		0	0			exiting storm only
Golden Gate High School	7	2925 Titan Way (Magnolia)	Naples	34116	N	P		0	0			exiting storm only
Golden Gate High School	8	2925 Titan Way (Magnolia)	Naples	34116	N	P		0	0			exiting storm only

**2008 Statewide Emergency Shelter Plan**

Palmetto Ridge HS (1st Priority)	6	1655 CR 858	Naples	34120	N	P	Yes	149	8,967			2story
Palmetto Ridge HS (1st Priority)	7	1655 CR 858	Naples	34120	N	P	Yes	124	7,477			1stirt
Palmetto Ridge HS (1st Priority)	8	1655 CR 858	Naples	34120	N	P	Yes	121	7,261			
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>				<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>		
Storm Category 4/5	394	1,687	-1,293	23,640				101,220	-77,580			

2008 Statewide Emergency Shelter Plan

COLUMBIA												
Name	Bldg. #	Address	City	Zip	Retrofit d (R) or New Construc tion (N)	Genera l (G), PSN (P), Pet - Friendl y (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Berea Baptist Church		Hwy 47 South	Lake City	N/A			155	0	0	78		
Bingo Station		Rt10, SR 47	Lake City				155	0	0	78		
Columbia City School		Highway 47 South	Lake City	N/A			520	0	0	260		
Columbia High School, North		Pennsylvania Avenue	Lake City	N/A				0	0	250		
Columbia High School, South		US 441 South	Lake City	N/A			250	0	0	300		
Epiphany School		Malone Drive	Lake City	N/A			300	0	0	250		
First Baptist Church		East Orange Street	Lake City	N/A			300	0	0	150		
First Methodist Church		South Marion Street	Lake City	N/A			200	0	0	200		
First Presbyterian Church		West Baya Avenue	Lake City	N/A			200	0	0	100		
Five Points Elementary School		Laverne Avenue	Lake City	N/A			200	0	0	200		
Fort White Public School	1	Highway 47 South	Lake City	32055	N	G	250	403	10,073	250	365	
Fort White Public School	11-1st floor	Highway 47 South	Lake City	32055	N	G		135	2,702			
Fort White Public School	12-1st floor	Highway 47 South	Lake City	32055	N	G		136	2,724			
Hopeful Baptist Church		389 SE Hopeful Circle	Lake City				700	0	0	350		
Lake City Middle School		Grandview Avenue	Lake City	N/A			300	0	0	300		
Lulu Community Center		US 100 East	Lulu	N/A			60	0	0	30		
Mason City Community Center		US 41 South	Lake City	N/A			75	0	0	100		
Masonic Lodge		McFarlane Avenue	Lake City	N/A			175	0	0	90		
Melrose Elementary School		1500 East Putnam Street	Lake City	N/A			200	0	0	100		
Niblack Elementary School		North Broadway Street	Lake City	N/A			200	0	0	100		
Parkview Baptist Church		North 7th Street	Lake City	N/A			250	0	0	125		
Richardson Recreation Center		Fronie Street	Lake City	N/A			200	0	0	200		
Southside Recreation Center		McFarlane Avenue	Lake City	N/A			75	0	0	35		
Springville Community Center		Suwannee Valley Road	Lake City	N/A			80	0	0	40		
Summers Elementary School		McFarlane Avenue	Lake City	N/A			300	0	0	150		
Westside Baptist Chapel		4471 US90W	Lake City				110	0	0	55		
Westside Elementary	1	Rt 12, Box 5300	Lake City	32055	N	G		249	4,988	300	249	
Westside Elementary	2	Rt 12, Box 5300	Lake City	32055	N	G		290	4,461			
Westside Elementary	3	Rt 12, Box 5300	Lake City	32055	N	G		232	4,640			
Westside Elementary	4	Rt 12, Box 5300	Lake City	32055	N	G		279	4,190			
Westside Elementary	5	Rt 12, Box 5300	Lake City	32055	N	G		137	3,260			
Westside Elementary	6	Rt 12, Box 5300	Lake City	32055	N	G		261	4,461			
Westside Elementary	9	Rt 12, Box 5300	Lake City	32055	N	G		175	2,686			
								0	0			
<b>TOTALS FOR COLUMBIA COUNTY</b>							<b>5,255</b>	<b>2,297</b>	<b>44,185</b>	<b>4,091</b>	<b>614</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	2,297	6,171	-3,874	44,185			123,420	-79,235				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
VA Domilery							Yes	0	0	16		

**2008 Statewide Emergency Shelter Plan**

Year 2008	SpNs Shelter Spaces In People (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	0	75	-75	0			4,500	-4,500			

2008 Statewide Emergency Shelter Plan

DESOTO												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Childs Christian Life Center Gym	Gym	1006 North Brevard Avenue	Arcadia	34233			238	0	0	0		
County Administration Building	1	201 East Oak Street	Arcadia	34266	R	G	144	192	2,886	0	289	
County Court House		115 East Oak Street	Arcadia	34266			0	0	0	168		
County Library		125 North Hillsborough Avenue	Arcadia	34266	R	G	92	144	2,160	0	184	
DeSoto High School	1-C	1710 East Gibson Street	Arcadia	34266			135	0	0	270		
DeSoto High School	1-G	1710 East Gibson Street	Arcadia	34266			560	0	0	0		
DeSoto Ms	3-Gym	420 E. Gibson Street	Arcadia	34266	R	G		583	10,776		583	completed 12/05
DeSoto MS	Bldg B	420 E. Gibson Street	Arcadia	34266	R	G		481	9,985		481	completed 12/05
DeSoto Ms	Bldg c	420 E. Gibson Street	Arcadia	34266	R	G		481	9,985		481	completed 2/06
DeSoto Ms	Bldg d	420 E. Gibson Street	Arcadia	34266	R	G		481	9,981		481	completed 2/06
First Baptist Church		1006 North Brevard Avenue	Arcadia	34266		P	132	0	0	264		
First Presbyterian Church		209 West Hickory Street	Arcadia	34266			118	0	0	235		
Memorial Elementary School	2-B	851 East Hickory Street	Arcadia	34266			248	0	0	495		
Memorial Elementary School	3-C	851 East Hickory Street	Arcadia	34266			248	0	0	495		
Memorial Elementary School	5-E	851 East Hickory Street	Arcadia	34266			198	0	0	396		
Memorial Elementary School	7-G	851 East Hickory Street	Arcadia	34266			107	0	0	213		
Memorial Elementary School	Bldg H	851 E. Hickory Street	Arcadia	34266	R	G		180	3,600		180	
Nocatee Elementary School #1		4846 SW Shore Avenue	Arcadia	34267			74	0	0	149		
Pine Creek Chapel #1		1267 SW Pine Chapel Drive	Arcadia	34266	N	G	61	103	1,329	0	103	
Seventh Day Adventist Church		2865 SE AMI Drive	Arcadia	34266			100	0	0	0		
South Florida Community College		2251 NE Turner	Arcadia	34266	N	G,P	395	0	0			SpNS shelter
Trinity United Methodist #1		304 West Oak Street	Arcadia	33821			74	0	0	175		
Trinity United Methodist #2		304 West Oak Street	Arcadia	33821			70	0	0	140		
Turner Agri-Civic Center		2250 Northeast Roan Street	Arcadia	34266	N	G	1,523	0	0	0		\$200k Agricultural grant-decommissioned
Turner Center Exhibit Hall		2260 NE Roan	Arcadia	34266	R	G,P		0	0	0		SpNS shelter
West Elementary School	13-A	304 West Imogene Avenue	Arcadia	34266			116	0	0	233		
West Elementary School	14-B	304 West Imogene Avenue	Arcadia	34266			163	0	0	326		
West Elementary School	15-C	304 West Imogene Avenue	Arcadia	34266			163	0	0	326		
West Elementary School	16-D	304 West Imogene Avenue	Arcadia	34266			108	0	0	215		
West Elementary School	17-E	304 West Imogene Avenue	Arcadia	34266			122	0	0	244		
West Elementary School	18-F	304 West Imogene Avenue	Arcadia	34266			83	0	0	167		
<b>TOTALS FOR DESOTO COUNTY</b>							<b>5,272</b>	<b>2,645</b>	<b>50,702</b>	<b>4,511</b>	<b>2,782</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	2,645	5,708	-3,063	50,702			114,160	-63,458				
<b>Special Needs Storm Shelters</b>												
<b>Name</b>	<b>Bldg #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>			<b>Emergency Powered HVAC?</b>	<b>SpNS Capacity (spaces @ 60sf) (meets ARC 4496)</b>	<b>SpNs Capacity (sf) (meets ARC 4496)</b>	<b>Comments</b>	<b>Local Planned usage (reported capacity)</b>	<b>Comments</b>
South Florida Comm. College (Priority 1)		2251 NE Turner	Arcadia	34266	N	P	No	119	7,194	Note: EHPA	151	
Turner Center Exhibit Hall (Priority 2)		2260 NE Roan	Arcadia	34266	R	P	No	40	2,400		140	
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	159	100	59	9,540			6,000	3,540				

**2008 Statewide Emergency Shelter Plan**

<b>DIXIE</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Anderson Elementary School		815 SE 351 Hwy	Cross City	32628			914	0	0			
Dixie County High School		16077 SE 19 Hwy	Cross City	32628			542	0	0			
Old Town Elementray		221 SE 136 Ave	Old Town	32680	R	G	195	0	0			
Old Town Elementray	1	221 SE 136 Ave	Old Town	32680	R	G		205	5,137		106	
Old Town Elementray	2	221 SE 136 Ave	Old Town	32680	R	G		460	8,045		460	
Old Town Elementray	3	221 SE 136 Ave	Old Town	32680	R	G		321	7,138		321	
Old Town Elementray	4	221 SE 136 Ave	Old Town	32680	R	G		165	4,110		165	
Old Town Elementray	5	221 SE 136 Ave	Old Town	32680	R	G		74	1,110		175	
Old Town Elementray	7	221 SE 136 Ave	Old Town	32680	N	P		0	0			
Ruth Raines Middle School	1South & 1n	981 SE 351 HWY	Cross City	32628	R	G		489	10,829		489	
Ruth Raines Middle School	2	981 SE 351 HWY	Cross City	32628	R	G		61	1,220		61	
Ruth Raines Middle School	3	981 SE 351 HWY	Cross City	32628	R	G		206	5,148		160	
Ruth Raines Middle School		981 SE 351 HWY	Cross City	32628	R	G		0	0		0	
Ruth Raines Middle School	5	981 SE 351 HWY	Cross City	32628	R	G		70	1,467		70	
<b>TOTALS FOR DIXIE COUNTY</b>							<b>1,651</b>	<b>2,051</b>	<b>44,204</b>	<b>0</b>	<b>2,007</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	2,051	2,514	-463	44,204			50,280	-6,076				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergnecy Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	Comments	Local Planned usage (reported capacity)	Comments
Old Town ES	7/Café	221 SE 136 Ave	Old Town	32680	N	P	No	83	5,039	Note: EHPA	84	
Year 2008	SpNs Shelter Spaces In People (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	83	55	28	4,980			3,300	1,680				

2008 Statewide Emergency Shelter Plan

DUVAL

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft2) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local planned usage (capacity reported)	Comments
103 RD STREET MS	TBA	103rd & Connie Jean Rd.		32210	N	G/P/A	408	817	16,340		817	due 2010-HMGP 1679
Andrew A. Robinson Elementary School	bldg 1, bldg 2 (1st floor)	101 12th Street West	Jacksonville	32206	R	G	0	1,949	48,724		1,853	HMGP1306-106 HMGP1539
AAA HIGH SCHOOL	TBA	AC Skinner Parkway		32256	N	G/P/A	425	850	17,000		850	due 2010-HMGP 1679
Abess Park Elementary	main (1st flr)	12731 Abess Blvd	Jacksonville	32225	R	G		1,369	26,559		1,369	HMGP1300-108 HMGP 1539
Abess Park Elementary	main (2nd flr)	12731 Abess Blvd	Jacksonville	32225	R	G		0	0		1,369	roof issues- HMGP 1561-235
Abess Park Elementary	additional to previous	12731 Abess Blvd	Jacksonville	32225	R	G	684	1,369	27,380		1,369	HMGP 1561-online April 2008
Alfred I. Dupont Middle School		2710 Dupont Avenue	Jacksonville	32217				0	0			
Andrew Jackson High School		3816 Main Street North	Jacksonville	32206			594	0	0			
Arlington Middle School	1	8141 Lone Star Road	Jacksonville	32211	N	G	0	2,281	45,621			per EHPA Isit
Arlington Middle School	2	8141 Lone Star Road	Jacksonville	32211	N	G		344	6,878			per EHPA Isit
Arlington Middle School	3	8141 Lone Star Road	Jacksonville	32211	N	G		236	4,714			per EHPA Isit
Axson ES	2	4763 Sutton Park Court	Jacksonville	32224	N	G		206	4,119			per EHPA Isit
Axson ES	3	4763 Sutton Park Court	Jacksonville	32224	N	G		763	15,269			per EHPA Isit
Axson ES	4	4763 Sutton Park Court	Jacksonville	32224	N	G		316	6,312			per EHPA Isit
Baldwin M/HS	cafeteria/gym	291 Mills Street	Baldwin	32224	R	G	690	1,380	33,200		1,380	HB7121
Biltmore Elementary School		2101 West Palm Avenue	Jacksonville	32254			0	0	0			
Brookview Elementary School		10450 Theresa Drive	Jacksonville	32246			0	0	0			
Carter G. Woodson Elementary School		2334 Butler Avenue	Jacksonville	32209			0	0	0			
Chaffee Trail ES		11400 Sam Caruso Way		32221	N	G	400	1,600	32,000		800	OPENED AUG 2007
Chets Creek Elementary School	main (1st flr)	13200 Chets Creek Blvd	Jacksonville	32224	R	G		1,369	27,114		1,369	HMGP1300-107 HMGP 1539
Chets Creek Elementary School	main (2nd flr)	13200 Chets Creek Blvd	Jacksonville	32244	R	G		0	0		1,369	roof issues -HMGP 1561-235 HMGP 1539
Chets Creek Elementary School	additional to previous	13200 Chets Creek Blvd	Jacksonville	32244	R	G	684	1,369	27,380		1,369	HMGP 1561-online April 2008
Chimney Lake Elementary School	A,B, D(1st floor)	9353 Staples Mill Road	Jacksonville	32244	R	G	1,000	2,367	59,184		1,298	HMGP1300-105 HB7121
Chimney Lake Elementary School	additional to previous-	9353 Staples Mill Dr.	Jacksonville	32244	R	G	1,298	2,596	51,920		2,596	HB7121-additional to previous
Crystal Springs Elementary School	D(1st flr)	1200 Hammond Boulevard	Jacksonville	32221	R	G	600	2,414	60,340		637	HMGP1300-111 (laydown) HB7121
Crystal Springs Elementary School	additional to previous-	1200 Hammond Blvd.	Jacksonville	32221	R	G	680	2,722	54,440		2,722	HB7121-additional to previous
D. Anderson School		2445 San Diego Road	Jacksonville	32207			0	0	0			
Don Brewer Elementary School	main (1st flr)	3385 Hartsfield	Jacksonville	32211	N	G	1100	801	20,024		537	
Edward White Sr High School		1700 Old Middleburg Road	Jacksonville	32210			700	0	0			
Englewood Sr. High School		4412 Barnes Road	Jacksonville	32207			515	0	0			
Enterprise Learning Academy	main (1st flr)	8085 Old Middleburg Road	Jacksonville	32222	R	P		0	0			changed to pSn HB7121
Eugene Butler Middle School		900 Acorn Street	Jacksonville	32209			0	0	0			
First Coast High School		590 Duval Station Road	Jacksonville	32218			1,000	0	0			
Ft. Caroline Middle School		3757 University Club Blvd	Jacksonville	32277			515	0	0			HMGP1300-109
Garden City Elementary School		2814 Dunn Avenue	Jacksonville	32218			0	0	0			
Greenland Pines		5050 Greenland Road	Jacksonville	32258	R	G		0	0		1,680	
Highlands Middle School		10913 Pine Estate Road	Jacksonville	32218			0	0	0			
Hyde Park Elementary School		5300 Park Street	Jacksonville	32205			0	0	0			
J.E.B. Stuart Middle School		4815 Wesconnett Blvd	Jacksonville	32210			0	0	0			
Jacksonville Heights Elementary School		7750 Tempest Street South	Jacksonville	32244			0	0	0			
Jefferson Davis Middle School		7050 Melvin Road	Jacksonville	32210			0	0	0			
Joseph Stilwell Middle School		7840 Burma Road	Jacksonville	32221			0	0	0			
Kernan Trails Elementary School	Main	2281 Kernan Blvd south	Jacksonville	32246	N	G	1100	1,460	36,488		537	
Lake Lucina Elementary School		6527 Merrill Road	Jacksonville	32277			0	0	0			
Landmark Middle School	2nd floor?	101 Kernan Road	Jacksonville	32225	R	G		0	0		530	HMGP 1561-235
Landmark Middle School		101 Kernan Road	Jacksonville	32225			400	0	0			HMGP1300-104
LaVilla Middle School of the Arts	1st flr East Wing	501 Davis Street North	Jacksonville	32202	N	G	2,467	1,586	39,659		818	
LaVilla Middle School of the Arts	2nd floor	501 Davis Street North	Jacksonville	32202	R	G	307	1,228	24,560		1,228	HMGP-1679-additional to previous
Mamie Agnes Jones ES	cafeteria, enclosed area	700 Orange Avenue	Baldwin	32234	R	G	526	1,053	21,060		1,053	HB7121
Mandarin High School		4831 Greenland Road	Jacksonville	32258			0	0	0			
Mandarin Middle School	1#63-70	5100 Hood Road	Jacksonville	32257	R	P	1,000	0	0			
Mandarin MS	additional to previous-	5100 Hood Road	Jacksonville	32257	R	G	588	1,176	23,520		1,176	HB7121--additional to previous
Mandarin Oaks Elementary School	2nd floor?	10600 Hornets Nest Road	Jacksonville	32257	R	G		0	0		2,950	HMGP 1561-235
Mandarin Oaks Elementary School	A, Bldg D (1st flr)	10600 Hornets Nest Road	Jacksonville	32257	R	G	0	2,950	61,705		2,950	

2008 Statewide Emergency Shelter Plan

DUVAL												
Mandarin Oaks ES	additional to previous				R	G	1,475	2,950	59,000		2,950	HMGP 1561-online April 2008
N.B. Forrest Sr. High School		5530 Firestone Road	Jacksonville	32244			808	0	0			
Northshore Elementary School		5701 Silver Plaza	Jacksonville	32208			200	0	0			
Northwestern Middle School		2100 45th Street	Jacksonville	32209			0	0	0			
Nutrition Service Center	1	3405 Norman Thagard Blv	Jacksonville	32254	N	G		0	0			
NW community Center	1	So. Of 5054 Soutel Dr.		32208	N	G/P/A	270	540	10,800		540	due 2010-HB7121
Oceanway Elementary School	Main	143 Oceanway Avenue	Jacksonville	32218			0	1,462	36,557		537	
Oceanway Middle School	café	143 Oceanway Avenue	Jacksonville	32218	N	G	370	0	0			changed to PSN
Paxon MS		3276 Norman Thagard Blv	Jacksonville	32254				0	0			
Paxon School for Advanced Studies		3239 Norman Thagard Blv	Jacksonville	32254			0	0	0			
Pine Estates Elementary School		10741 Pine Estates Road	Jacksonville	32218			0	0	0			
R.F. Kennedy Center		1033 Ionia Street	Jacksonville	32206			0	0	0			
R.F. Kennedy Center		1033 Ionia Street	Jacksonville	32206	N	P		0	0		958	HMGP1300-110
Ramona Elementary School		5540 Ramona Boulevard	Jacksonville	32205			0	0	0			
Richard L. Brown Elementary School		1535 Milnor Street	Jacksonville	32206			0	0	0			
Robert E. Lee Sr High School		1200 McDuff Avenue S	Jacksonville	32205			515	0	0			
S.A. Hull Elementary School		7528 Hull Street	Jacksonville	32219			0	0	0			
Sable Palm Elementary School	additional to previous	1201 Kernan Road	Jacksonville	32225	R	G	1,475	2,950	59,000		2,950	HMGP 1561-online April 2008
Sable Palm Elementary School	2nd floor?	1201 Kernan Road	Jacksonville	32225	R	G		0	0		2,950	
Sable Palm Elementary School	A, Bldg D (1st flr)	1201 Kernan Road	Jacksonville	32225	R	G	0	2,950	61,896		2,950	total for school-61896
San Jose Elementary School		5805 St. Augustine Road	Jacksonville	32207			0	0	0			
Sandalwood Jr./Sr. High School		2750 John Prom Blvd	Jacksonville	32246			1,362	0	0			
Southside Middle School		2948 Knights Lane East	Jacksonville	32216			0	0	0			
Spring Park Elementary School		2250 Spring Park	Jacksonville	32217			0	0	0			
Stanton College Prep School		1149 13th Street	Jacksonville	32209			0	0	0			
Terry Parker Sr. High School		7301 Parker School Road	Jacksonville	32211			0	0	0			HMGP1300-103
Twin Lakes Academy	main (2nd flr)	8050 Point Meadows Driv	Jacksonville	32256	R	G		0	0		1,369	SBC- Open spans-HMGP 1561-235
Twin Lakes Academy	main(1st flr)	8050 Point Meadows Driv	Jacksonville	32256	R	G		0	0			150
Twin Lakes Academy	additional to previous	8050 Point Meadows Driv	Jacksonville	32256	R	G	684	1,369	27,380		1,369	HMGP 1561-online April 2008
William M. Raines Sr. High School		3663 Raines Avenue	Jacksonville	32209			482	0	0			
Wolfson Sr. High School		7000 Powers Avenue	Jacksonville	32217			503	0	0			150
Woodland Acres Elementary School		328 Bowlan Street	Jacksonville	32211			0	0	0			HMGP1300-102
<b>TOTALS FOR DUVAL COUNTY</b>							<b>25,825</b>	<b>48,792</b>	<b>1,046,143</b>	<b>0</b>	<b>51,199</b>	<b>300</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	48,792	68,833	-20,041	1,046,143			1,376,660	-330,517				
<b>Special Needs Storm Shelters</b>												
<b>Name</b>	<b>Bldg #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>			<b>Emergency Powered HVAC?</b>	<b>SpNS Capacity (spaces @ 60sf) (meets ARC 4496)</b>	<b>SpNs Capacity (sf) (meets ARC 4496)</b>	<b>SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)</b>	<b>Local planned usage (capacity reported)</b>	<b>Comments</b>
103RD STREET MS	TBA	103rd Street & Connie Jean Rd.		32210	N	P/A	Y	167	10,020	0	167	HMGP 1679-DCPS-code plus
AAA HIGH SCHOOL	TBA	TBA-AC Skinner Parkwy		32256	N	P/A	Y	250	15,000	0	250	HMGP 1679-DCPS-code plus
Enterprise Learning Academy (2nd Priority)	Main (1st flr)	8085 Old Middleburg Road	Jacksonville	32222	R	P	No	503	30,177		671	
Landmark MS (Priority 4)	Main (1st flr)	101 Kernan Road	Jacksonville	32225	R	P	No	0	0	230	496	Questions
Mandarin MS (priority 3)	1#63-70	5100 Hood Road	Jacksonville	32257	R	P	No	0	0	230	496	Opens span issues-HB7121
NW community Center	1	TBA-So. Of 5054 Soutel Dr.		32208	N	P/A	Y	62	3,720	0	62	Local-HB7121 -CDBG-code plus
Oceanway MS (1st Priority)	café	143 Oceanway Avenue	Jacksonville	32218	R	P	No	115	6,884	0	200	Note; EHPA
<b>Twin Lakes Academy / ES (priority 5)</b>	1st floor	8000 Point Meadows Drive	Jacksonville	32256	R	P	No	391	23,468	0	857	HMGP 1539 HB7121-gen
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	1,488	1,850	-362	89,280			111,000	-21,720				



2008 Statewide Emergency Shelter Plan

ESCAMBIA												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Bailey MS	1	4110 Bauer Road	Pensacola	32506	R			0	8,028		0	located in Cat 2-3 evac zone
Bailey MS	3	4110 Bauer Road	Pensacola	32506	R			0	710		0	located in Cat 2-3 evac zone
Bailey MS	4	4110 Bauer Road	Pensacola	32506	R			0	0		0	long span question
Bailey MS	5	4110 Bauer Road	Pensacola	32506	R			0	0		0	long span question
Bailey MS	6	4110 Bauer Road	Pensacola	32506	R			0	11,702		0	located in Cat 2-3 evac zone
Bailey MS	7	4110 Bauer Road	Pensacola	32506	R			0	7,098		0	located in Cat 2-3 evac zone
Bailey MS	8	4110 Bauer Road	Pensacola	32506	R			0	8,451		0	located in Cat 2-3 evac zone
Bailey MS	9	4110 Bauer Road	Pensacola	32506	R			0	0		0	long span question
Beggs Vocational School		2404 Longleaf Drive	Pensacola	32506	R			0	0			
Bellview Assembly of God		2920 W. Michigan Avenue	Pensacola	32526		G	615	0	0			
Bellview Baptist Church		4750 Saufley Rd	Pensacola	32526			480	0	0			
Bellview Elementary School <sup>1</sup>	5	4425 Bellview Avenue	Pensacola	32506	R			309	5,094		309	
Bellview Middle School <sup>1</sup>		6201 Mobile Highway	Pensacola	32506	R	G		0	0			
Beulah Elementary School <sup>1</sup>	2000 add	6201 Helms Road	Pensacola	32506		G		200	3,448		0	
Beulah Elementary School <sup>1</sup>	Main	6201 Helms Road	Pensacola	32506	R	G		0	0			
Blue Angel ES	100 wing	1551 Dog Track Road	Pensacola	32506	R	G		243	6,069		98	per State study
Blue Angel ES	200 wing	1551 Dog Track Road	Pensacola	32506	R	G		120	4,827		120	per State study
Blue Angel ES	300 wing	1551 Dog Track Road	Pensacola	32506	R	G		354	5,933		354	per State study
Blue Angel ES	400 wing	1551 Dog Track Road	Pensacola	32506	R	G		419	6,887		419	per State study
Blue Angel ES	500 wing	1551 Dog Track Road	Pensacola	32506	R	G		463	8,328		463	per State study
Blue Angel ES	600 wing	1551 Dog Track Road	Pensacola	32506	R	G		406	7,604		406	per State study
Brentwood ES	5	4820 North Palaof			R	G		367	7,345		0	shutters complete July 2007
Brentwood ES	5 (hallways)	4820 North Palaof	Pensacola	32505	R	G		60	2,423		0	per State study
Brownsville Middle School <sup>1</sup>		3700 West Avery Street	Pensacola	32503	R			0	0			
Carver Middle School <sup>1</sup>		700 E Hecker Road	Century	32525	R			0	0			
Century- Carver Middle School	7	440 East hecker Road	Century	32535	R	G		327	6,540		327	
Century- Carver Middle School	7	440 East hecker Road	Century	32535		G		220	4,407		220	
Charity Chapel		5820 Montgomery Ave	Pensacola	32526		G	106	0	0			
Circle Baptist		808 New Warrington Rd	Pensacola	32505		G	128	0	0			
Community Workshop Center		6200 West Nine Mile Rd	Pensacola	32526		G	161	0	0			
Ernest Ward Middle School <sup>1</sup>		7650 Highway 97	Walnut Hill	32568	R			0	0			
Escambia Wesgate Center	6				R	G		400	8,000		0	shutters complete July 2007
Faith Baptist Church		3600 Creighton Rd	Pensacola	32504		G	80	0	0			
Ferrypass Elementary	5	8310 North Davis	Pensacola	32514	R	G		293	5,717		293	
Ferrypass Middle	4	8355 Yancey Ave	Pensacola	32514	R	G		311	6,211		311	
First Presbyterian Church		33 East Gregory St	Pensacola	32595		G	480	0	0			
First United Methodist		6 East Wright St	Pensacola	32501		G	306	0	0			
Holy Cross Episcopal Church		7979 North 9th Ave	Pensacola	32514		G	160	0	0			
Holy Spirit Catholic Church		10650 Gulf Beach HWY	Pensacola	32507		G	385	0	0			
Jim Allen Elementary School <sup>1</sup>	6	1051 Highway 95A	Cantonment	32533	R	G		293	5,077		0	
K-8 Molino / Molino Park ES	1	899 Hwy 97	Molino	32577	N	G		852	13,622		852	
Liberty Church		2221 S. Blue Angel Pkwy	Pensacola	32506		G	160	0	0			
Lipscomb Elementary School <sup>1</sup>	100 wing N	10200 Ashton Brosnahan	Pensacola	32504	R	G		252	5,041		270	per State study
Lipscomb Elementary School <sup>1</sup>	100 wing S	10200 Ashton Brosnahan	Pensacola	32504	R	G		105	2,102		105	per State study
Lipscomb Elementary School <sup>1</sup>	200 wing	10200 Ashton Brosnahan	Pensacola	32504	R	G		305	5,049		305	per State study
Lipscomb Elementary School <sup>1</sup>	300 wing	10200 Ashton Brosnahan	Pensacola	32504	R	G		262	4,085		262	per State study
Lipscomb Elementary School <sup>1</sup>	400 wing	10200 Ashton Brosnahan	Pensacola	32504	R	G		266	3,990		280	per State study
Lipscomb Elementary School <sup>1</sup>	500 wing	10200 Ashton Brosnahan	Pensacola	32504	R	G		339	5,990		339	per State study
Lipscomb Elementary School <sup>1</sup>	600 wing	10200 Ashton Brosnahan	Pensacola	32504	R	G	1,000	342	6,598		342	per State study
Longleaf Elementary	2	2600 Longleaf dr	Pensacola	32526	R	G		392	7,840		392	
Macedonia CME Church		2285 Stacy RD	Pensacola	32533		G	41	0	0			
Marcus Point Baptist		6205 North "W" St	Pensacola	32535		G	1106	0	0			
Molino Park ES	2,3,4,5	899 Hwy 97			R	G		1,062	21,240		1,373	shuttering complete June 2007
Navy Point Elementary		1050 Gulf Beach Hwy	Pensacola	32507	R	G	0	170	2,556		0	in evacuation zone 4-5

2008 Statewide Emergency Shelter Plan

ESCAMBIA												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Northview High School <sup>1</sup>	1	4100 West Highway 4	Century	32525	R		1,500	0	27,436		0	This is having roof upgrade and will not be ready until Jan 2008
Pensacola Civic Center	1st/2lfr halls	201 East Gregory St	Pensacola	32501	R	G	2,829	0	0	2,829		out-too close to surge
Pensacola Junior College <sup>1</sup>	Lou Ross Bldg	1000 College Avenue	Pensacola	32514	R			0	0			
Pensacola Junior College <sup>1</sup>	Main	1000 College Avenue	Pensacola	32514	R			0	0			
Pensacola Senior High	5- new gym	500 West Maxwell Street	Pensacola	32501	N	G		746	14,916			per EHPA list
Ransom Middle School <sup>1</sup>		1000 West Kingsfield	Cantonment	32533	R			0	0			
Saufley Field		Saufley Field	Pensacola	32526				0	0			
Scenic Heights Elementary School <sup>1</sup>		3801 Cherry Laurel Drive	Pensacola	32514	R			0	0			
Scenic Hills Church		1295 E. Nine Mile Rd	Pensacola	32514		G	180	0	0			
Sherwood Elementary School <sup>1</sup>	10	501 Cherokee Trail	Pensacola	32506	R	G		212	3,643		0	
St. Christopher		3200 North 12th Aven	Pensacola	32503		G	13	0	0			
Tate High School <sup>1</sup>	39/ café	1771 Tate Road	Cantonment	32514	R	G	1,250	514	8,200		514	
Tate HS	38/ gym	1771 Tate Road	Cantonment	32514	R	G		1,300	26,000		1,300	shutters
University of West Florida	Bldg 13	11000 University Parkway	Pensacola	32514		G		389	5,364		389	
University of West Florida	X1	11000 University Parkway	Pensacola	32514	R			2,369	47,380		2,286	impact glass completed Dec 2006
Warrington Middle School <sup>1</sup>		450 South Old Corry Road	Pensacola	32507	R	G	600	0	0			
Washington High School <sup>1</sup>		6000 College Road	Pensacola	32504	R	G	2,000	0	0			
West Florida HS- (former Beggs Voc)	25	2404 Longleaf Drive	Pensacola	32506	R	P		0	0			
West Florida HS- (former Beggs Voc)	26	2404 Longleaf Drive	Pensacola	32506	R	P		0	0			
West Pensacola High Elementary	3	801 North 49th Ave	Pensacola	32506	R	G		215	4,546		0	
Woodham High School <sup>1</sup>		150 East Burgess Road	Pensacola	32504	R			0	0			
Workman Middle	7	6299 Ianier Dr	Pensacola	32504	R	G		286	7,150		286	
								0	0			
								0	0			
								0	0			
<b>TOTALS FOR ESCAMBIA COUNTY</b>							<b>13,580</b>	<b>15,163</b>	<b>352,647</b>	<b>2,829</b>	<b>12,615</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	15,163	11,959	3,204	352,647			239,180	113,467				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Comments
Pensacola Jr College	3	1000 College Avenue	Pensacola	32514			Yes	180	10,854		0	The remodeling has been completed- no plans for use att
West Florida High School	25& 26	2404 Longleaf Drive	Pensacola	32506			No	255	15,358		317	
West Florida High School	9 - Gym/Cafeteria	2404 Longleaf Drive	Pensacola	32506			No	236	14,174		0	no generator at this time
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	671	512	159	40,260			30,720	9,540				



**2008 Statewide Emergency Shelter Plan**

<b>FLAGLER</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Beller Terre ES	300	5345 Belle Terre Parkway	Palm Coast	32127				202	4,041			AS-IS- interior corridors per study
Beller Terre ES	400	5345 Belle Terre Parkway	Palm Coast	32127				180	3,607			AS-IS- interior corridors per study
Beller Terre ES	500	5345 Belle Terre Parkway	Palm Coast	32127				435	8,698			EHPA per State study
Beller Terre ES	600	5345 Belle Terre Parkway	Palm Coast	32127				170	3,409			AS-IS- interior corridors per study
Beller Terre ES	700	5345 Belle Terre Parkway	Palm Coast	32127				97	1,930			AS-IS- interior corridors per study
Buddy Taylor Middle School	Main	4500 Belle Terre Parkwa	Palm Coast	32137	R	G	1,000	0	0	2,330		roof not retrofitted as thought
Buddy Taylor Middle School		4500 Belle Terre Parkwa	Palm Coast	32137	R	P		0	0			
Bunnell Elementary School		500 East Howe Street	Bunnell	32110			1,000	0	0			
Indian Trails Elementary School		5055 Belle Terre Parkwa	Palm Coast	32137			1,000	0	0	1,355		
L. E. Wadsworth Elementary School	400	4550 Belle Terre Parkwa	Palm Coast	32135	R	G	1,000	128	2,570		128	
Matanzas HS	100	3535 Old Kings Road	Palm Coast	32137				1,028	20,562			AS-IS- gym- no windows?
Matanzas HS	200	3535 Old Kings Road	Palm Coast	32137				215	4,297			EHPA per State study
Old Kings Elementary School		North Old Kings Road	Bunnell	32136			1,000	0	0			
Palm Coast High School	200	3265 East Highway 100	Bunnell	32110	R	G	2,000	563	8,446		697	
Palm Coast High School	700	3265 East Highway 100	Bunnell	32110	R	G		556	8,787		556	
Palm Coast High School	800	3265 East Highway 100	Bunnell	32110	R	G		556	9,516		556	
<b>TOTALS FOR FLAGLER COUNTY</b>							<b>7,000</b>	<b>4,130</b>	<b>75,863</b>	<b>3,685</b>	<b>1,937</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result			
Storm Category 4/5	4,130	4,505	-375	75,863			90,100	-14,237				
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Comments
Rymfire ES (New in late Aug 2006)		1425 Rymfire Drive	Palm Coast		N	P	Yes	176	10,560		1,500	
Buddy Taylor MS	main	4500 Belle Terre Parkwa	Palm Coast	32137			Yes	0	0	777	777	
Bunnell ES		500 East Howe Street	Bunnell	32110			No	0	0	0		
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result			
Storm Category 4/5	176	650	-474	10,560			39,000	-28,440				

**2008 Statewide Emergency Shelter Plan**

<b>FRANKLIN</b>												
Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Construct ion (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	local planned usage	Comments
Apalachicola High School		190 14th St	Apalachicola	32320			350	0	0	350		0
Brown Elementary School		85 School Road	Eastpoint	32328			300	0	0	300		0
Carabelle High School		1001 Grey Avenue	Carabelle	32322			300	0	0	300		0
Chapman Elementary School		155 Ave E	Apalachicola	32320			450	0	0	450		0
Church of God		1400 Tallahassee Street	Carabelle	32322			60	0	0	60		0
Church of God		379 Ave A	Eastpoint	32328			90	0	0	100		0
Fellowship Baptist Church		706 Ryan Street	Carabelle	32322			100	0	0	100		0
First Baptist Church		206 SE Ave A	Carabelle	32322			170	0	0	180		0
Lanark Community Church		Spring Street	Lanark Village	32323			75	0	0	75		0
First Baptist Church		447 Ave A	Eastpoint	32328			100	0	0	100		0
Mormom Church		Prado Street	Apalachicola	32320			30	0	0	60		0
Mt Zion Baptist Church		98 Ave E	Apalachicola	32320			100	0	0	100		0
United Methodist Church		102 NE Ave E	Carabelle	32322			175	0	0	175		0
United Methodist Church		75 5th Street	Apalachicola	32320			60	0	0	60		0
								0	0			
<b>TOTALS FOR FRANKLIN COUNTY</b>							<b>2,360</b>	<b>0</b>	<b>0</b>	<b>2,410</b>	<b>0</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	0	948	-948	0			18,960	-18,960				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergenc y Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
Uses Regional Shelter												
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	0	48	-48	0			2,880	-2,880				

2008 Statewide Emergency Shelter Plan

GADSDEN												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Arnet Chapel AME Church		210 South Duval	Quincy	32351			60	0	0	60		
Carter-Parramore Middle School		South Stewart	Quincy	32351			320	0	0	320		
Chattahoochee Elementary School		335 Maple Street	Chattahoochee	32324			250	0	0	250		
Chattahoochee High School		613 Chattahoochee Street	Chattahoochee	32324			170	0	0	180		
Chattahoochee Presbyterian Church		425 Main Street	Chattahoochee	32324			125	0	0	125		
Florida State Hospital		Highway 90	Chattahoochee	32324			200	0	0	200		
Friendship African Methodist Church		Wire Road	Chattahoochee	32324			200	0	0	200		
East Gadsden High School	600	27001 Blue Star Memorial Hwy	Havana	32333	N	G	500	903	15,780		800	per State study
East Gadsden High School	400	27001 Blue Star Memorial Hwy	Havana	32333	N	G		1,194	21,381			per State study
East Gadsden High School	500	27001 Blue Star Memorial Hwy	Havana	32333	N	G		438	9,031			per State study
Gadsden Voc-Tech School		201 MLK Boulevard	Quincy	32351			200	0	0	200		
George W. Munroe Elementary School		1830 West King Street	Quincy	32351			240	0	0	240		
Greensboro Elementary School		US Highway 90 East	Greensboro	32351			200	0	0	200		
Greensboro High School		SR 12	Greensboro	32351			275	0	0	275		
Gretna Elementary School		705 MLK Boulevard	Gretna	32351			300	0	0	300		
Gretna City Hall	1	14615 Main Street	Gretna	32332	R			0	0	400		shuttered but no report
Havana Elementary School		705 US Highway 27 South	Havana	32333			375	0	0	375		
Havana Middle School		1210 Kemp Road	Havana	32333			290	0	0	290		
Havana Northside High School		264 Carver Avenue	Havana	32333			0	0	0	320		
James A Shanks High School		1400 West King Street	Quincy	32351			350	0	0	350		
Mormon Church		South Roberts Road	Quincy	32351			40	0	0	40		
National Guard Armory		2049 Pat Thomas Highway	Quincy	32351			0	0	0	300		
New Bethel AME Church		US Highway 90 East	Quincy	32351			70	0	0	70		
Old Bethel AME Church		High Bridge Road	Quincy	32351			70	0	0	70		
Quincy Educational Center		500 W King Street	Quincy	32351			240	0	0	240		
Quincy Recreational Center		122 North Graves Street	Quincy	32351			100	0	0	100		
Stewart Street Elementary School		South Stewart Street	Quincy	32351			250	0	0	250		
St. James AME Church		514 South 11th Street	Quincy	32351			70	0	0	70		
St. John AME Church		Old Bainbridge Road	Quincy	32351			60	0	0	60		
St. John Elementary School		Highway 267 North	Quincy	32351			240	0	0	240		
<b>TOTALS FOR GADSDEN COUNTY</b>							<b>5,195</b>	<b>2,535</b>	<b>46,192</b>	<b>5,725</b>	<b>800</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	2,535	2,923	-388	46,192			58,460	-12,268				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Comments
Uses Regional Shelter												
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	0	250	-250	0			15,000	-15,000				

**2008 Statewide Emergency Shelter Plan**

<b>GILCHRIST</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bell Elementary School-Cafetorium	5	NW 10th Street	Bell	32619	N & R	G	492	386	5,790		492	03-SR-78-03-31-01-287
Bell High School -Classroom	14	930 South Main Street	Bell	32619	R	G	305	305	6,052		305	03-SR-78-03-31-01-287
Bell High School - Multi-Purpose	16	930 South Main Street	Bell	32619	N & R	G	467	800	20,009		467	
Bell High School -Health Academy	20	930 South Main Street	Bell	32619	N & R	P	253	0	0			
Trenton High School - Classroom	27	1013 North Main Street	Trenton	32693	R	G	342	342	6,329		342	
Trenton High School - Classroom	28	1013 North Main Street	Trenton	32963	R	G	455	396	5,933		455	
Trenton High School - Multi-purpose	30	1013 North Main Street	Trenton	32963	R	G	278	218	3,270		278	
Trenton High School - New Gym	34	1013 North Main Street	Trenton	32963	N & R	G	432	432	12,368		432	03-SR-78-03-31-01-287
Trenton Elementary School - Cafetorium	2	1350SWSR26	Trenton	32693	N & R	G	492	364	5,467		492	03-SR-78-03-31-01-287
								0	0			
<b>TOTALS FOR GILCHRIST COUNTY</b>							<b>3,516</b>	<b>3,243</b>	<b>65,218</b>	<b>0</b>	<b>3,263</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	3,243	2,117	1,126	65,218			42,340	22,878				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Bell HS	20	930 South Main Street	Bell	32619			No	101	6,115		102	
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	101	52	49	6,060			3,120	2,940				

2008 Statewide Emergency Shelter Plan

GLADES												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
1st United Methodist Church		Ave. L & 3rd Street	Moore Haven	33471	R	G/A	87	0	0	87	87	not surveyed yet
American Legion Hall		600 River Rd	Moore Haven	33471	R	G	180	0	0	180	180	Retrofit not completed?
Buckhead Ridge Community Center I & II		682 Hwy 78 W	Buckhead Ridge	34974		G	99	0	0	97		
Buckhead Ridge V.F.W.		2002 Hwy 78 W	Buckhead Ridge	34974	N	G	35	0	0	155	155	reinforcing walls/upgrade roof- etc- 2007-what about windows??
Doyle Conner Agricultural Center		900 Hwy 27	Moore Haven	33471		G	600	0	0			
Lake Port Community Center		10245 Red Barn Rd NW	Lakeport	33471		G	100	0	0			
Maple Grove Baptist Church		120 East State Rd 78 West	Lakeport	33471	N	G	344	343	5,900		343	
Moore Haven Elementary School		401 Terrier Pride Drive SW	Moore Haven	33471		G	160	0	0	204	160	Retrofit not completed
Moore Haven High School		700 Terrier Pride Drive SW	Moore Haven	33471		G	62	0	0			
Muse Community Center (new)		Loblolly Road	Muse	33935	N	G	46	150	3,000		46	
Muse Community Center/Volunteer Fire Dept		SR 720 & Rainbow Blvd	Muse	33935		G	144	144	2,880		144	
Ortona Volunteer Fire Department		3070 Ortona Locks Road	Ortona	33471		G	0	0	0			
Palmdale Community Center		7969 Main street NW	Palmdale	33944		G	49	0	0			
West Glades Elementary School	3,5	2500 S. COUNTY ROAD 731 SW	Muse	33935	N	P	594	0	0		594	moved to PSN.
<b>TOTALS FOR GLADES COUNTY</b>							<b>2,500</b>	<b>637</b>	<b>11,780</b>	<b>723</b>	<b>1,709</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	637	5,818	-5,181	11,780			116,360	-104,580				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Comments
West Glades ES	3,5	2500 S. CR 731 SW	Muse	33935	N	P	Yes	216	12,982		50	
Muse Community Center (new)		25895 Lobolly Rd	Muse	33935	N	P	Yes					
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	216	10	206	12,960			600	12,360				



2008 Statewide Emergency Shelter Plan

GULF

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Honeyville Community Center		240 Honeyville Park Drive	Wewahitchka	32465	N	G		232	4,640		232	
Port St. Joe Cennential Bldg		2201 Centennial Drive	Port St. Joe	32456			0	0	0			
Port St. Joe Elementray School		2201 Long Avenue	Port St. Joe	32456			0	0	0			
Port St. Joe High School		100 Shark Circle	Port St. Joe	32456			0	0	0			
Washington Recreational Center		407 Kenny Street	Port St. Joe	32456			434	0	0			
Wewahitchika Comm. Bldg		314 N. 3rd Street	Wewahitchka	32465	N	P		0	600		0	dropped as shelter
Wewahitchika Elementary School		514 East River Road	Wewahitchka	32465			193	0	0			
Wewahitchika High School (2005)	16	754 East River Road	Wewahitchka	32465			904	103	2,067		103	
<b>TOTALS FOR GULF COUNTY</b>							<b>1,531</b>	<b>335</b>	<b>7,307</b>	<b>0</b>	<b>335</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	335	993	-658	7,307			19,860	-12,553			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage
Uses Regional Shelter									0		

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	0	20	-20	0			1,200	-1,200			

**2008 Statewide Emergency Shelter Plan**

<b>HAMILTON</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Comments
Central Hamilton Elementary School	Kinder. #9	Route 2, Box 136	Jasper	32052	N & R	G		119	2,080		119	
Greenwood School	3	US 41 North	Jasper	32052	N & R	G		119	2,080		119	
Hamilton County Senior High School	5 class rooms	5683 US HIGHWAY 129 SOUTH	Jasper	32052	N	G		279	5,589			
Hamilton County Senior High School	6 gym	5683 US HIGHWAY 129 SOUTH	Jasper	32052	N	G		505	10,101			
Hamilton County Senior High School	7 ROTC	5683 US HIGHWAY 129 SOUTH	Jasper	32052	N	G		112	2,239			
Hamilton County Senior High School	8 cafeteria	5683 US HIGHWAY 129 SOUTH	Jasper	32052	N	G		0	0			
North Hamilton Elementray School	2	1291 Florida Street	Jennings	32053	N & R	G		119	2,080		119	
Stephen Foster Memorial		Robert & Spring Street	White Spring	32096				0	0			
Town of Jennings	EOC/Fire		Jennings		N & R	G		144	2,880		144	02CP-04-03-34-02-214
VFW Post 8095		Hwy 6 East	Jasper	32052				0	0			
<b>TOTALS FOR HAMILTON COUNTY</b>							<b>0</b>	<b>1,397</b>	<b>27,049</b>		<b>501</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	1,397	1,532	-135	27,049			30,640	-3,591				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Comments
Hamilton County Senior High School	8 cafeteria	5683 US HIGHWAY 129 SOUTH	Jasper	32052	N	G		101	6,071			
Suwannee Valley Nursing Center		427 15th Ave NW	Jasper	32052			No	0	0	20	20	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	101	10	91	6,060			600	5,460				

2008 Statewide Emergency Shelter Plan

**HARDEE**

Name	Bldg. #	Address	City	Zip	Retrofit ted (R) or New Constr uction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comment
Bowling Elementary School	18	4530 South Church Street	Bowling Green	33834	N		750	132	1,985	750	147	
Faith Presbyterian Church		114 N 7th Avenue	Wauchula	33873			200	0	0	200		
First Baptist Church of Wauchula		1570 W Main Street	Wauchula	33873			500	0	0	500		
Florida Hospital Wauchula		533 West Carlton Street	Bowling Green	33834				0	0			
Hardee Junior High School		300 South Florida Avenue	Wauchula	33873			1,400	0	0	1,400		
Hardee Manor Care Center		401 Orange Place	Wauchula	33873				0	0			
New Zion African Methodist Church		1607 Martin Luther King Jr. Ave	Wauchula	33873			120	0	0	120		
North Wauchula Elementary School	3	1120 North Florida Avenue	Wauchula	33873	N		1,500	138	2,071	1,500	147	
South Florida Comm. College		2968 US17N	Bowling Green	33834	N	P		0	0			SPNS shelter
Wauchula ES	ESE/ 500	400 South Florida Avenue	Wauchula	33873		G		0	0	606		
Wauchula Elementary School		400 South Florida Avenue	Wauchula	33873			2,500	0	0	2,500		
Wauchula ES	Media/ 600	400 South Florida Avenue	Wauchula	33873		G		0	0	149		
Wauchula Jhs	ESE-900	300 South Florida Avenue	Wauchula	33873	R	G	605	0	0	0		03-SR-77-07-35-03-207
Wauchula Jhs	media-1500	300 South Florida Avenue	Wauchula	33873	R	G	148	0	0	0		03-SR-77-07-35-03-207
Zolfo Springs Baptist Church		320 Fourth Street East	Zolfo Springs	33890			200	0	0	200		
Zolfo Springs Church of God		2915 Schoolhouse Road	Zolfo Springs	33890			200	0	0	200		
Zolfo Springs Elementary School	10	3215 Schoolhouse Road	Zolfo Springs	33890	N		800	287	3,728	800	220	

**TOTALS FOR HARDEE COUNTY**      8,923      557      7,784      8,925      514      0

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	557	5,221	-4,664	7,784	104,420	-96,636	

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip	Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comment
South Florida Comm. College	1st floor,209-211	2968 US17N	Bowling Green	33834	N	P	No	75	4,500	110

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	75	90	-15	4,500	5,400	-900	

2008 Statewide Emergency Shelter Plan

HENDRY													
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496) <sup>1</sup>	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Clewiston Central ES	Café	1000 South Dean Duff Ave	Clewiston	33440	R	G	293	0	0	365			
Clewiston Eastside ES		201 West Arroyo Avenue	Clewiston	33440			0	0	0				
Clewiston HS	8	1501 South Francisco	Clewiston	33440	R	G	717	0	0	500			
Clewiston HS	10	1501 South Francisco	Clewiston	33440	R	G		0	0	337			
Clewiston HS	100	1501 South Francisco Street	Clewiston	33440	R	G	333	306	4,597		333	S-1467-2004	dike issues?
Clewiston HS	900	1501 South Francisco Street	Clewiston	33440	R	G	259	238	3,565		259	S-1467-2004	dike issues?
Clewiston MS	27	601 West Osceola	Clewiston	33440	R	G		0	0	163			
Clewiston MS	30	601 West Osceola Avenue	Clewiston	33440	R	G	166	166	2,972		166	S-1467-2004	dike issues?
Clewiston MS	31	601 West Osceola Avenue	Clewiston	33440	R	G	538	538	10,760		538	S-1467-2004	dike issues?
Clewiston MS	32	601 West Osceola Avenue	Clewiston	33440	R	G	468	468	7,015		468	S-1467-2004	dike issues?
Clewiston MS	33	601 West Osceola Avenue	Clewiston	33440	R	G	241	241	3,808		241	S-1467-2004	dike issues?
Clewiston MS	34	601 West Osceola Avenue	Clewiston	33440	R	G	241	241	3,799		241	S-1467-2004	dike issues?
Clewiston MS	Gym	601 West Osceola	Clewiston	33440	N	G	442	500	11,314		500	L	dike issues?
Clewiston Westside ES	West	205 West Arroyo Avenue	Clewiston	33440	R	G	157	0	0	235			
Country Oaks ES	1	2025 NW Eucalyptus Blvd	LaBelle	33935	R	G	178	0	0	267			
Felda Community Center		1050 CR 830	Felda	33930			71	0	0	106			
Harlem Community Civic Auditorium		2000 7th Street	Clewiston	33440			122	0	0	183			
Hendry County Health Department		1140 Pratt Boulevard	LaBelle	33935				0	0	0			
John Boy Auditorium	BeardslyRm	1300 South WC Owens Ave	Clewiston	33440	R	G	175	78	1,564		0		per Shelter Study
LaBelle Civic Center		400 Hickpochee Avenue	LaBelle	33935			209	0	0	313			
LaBelle ES	5	West Cowboy Way	LaBelle	33935	R	G	188	0	0	282			
LaBelle HS	2	4050 East Cowboy Way	LaBelle	33935	R	G		0	0	282			
LaBelle HS	3	4050 East Cowboy Way	LaBelle	33935	N	G	909	0	0	371			
LaBelle MS	Gym	West Cowboy Way	LaBelle	33935	N	G	333	500	10,532		500	L	
Labelle MS	1	8000 East Cowboy Way	Labelle	33935	R	G	215	215	3,609		215	S-1467-2004	
Labelle MS	2	8000 East Cowboy Way	Labelle	33935	R	G	172	172	3,825		172	S-1467-2004	
Labelle MS	3	8000 East Cowboy Way	Labelle	33935	R	G	442	442	9,544		442	S-1467-2004	
Labelle MS	4	8000 East Cowboy Way	Labelle	33935	R	G	334	334	5,478		334	S-1467-2004	
Labelle MS	6	8000 East Cowboy Way	Labelle	33935	R	G	481	481	7,858		481	S-1467-2004	
Pioneer Plantation Community Center		Panama Drive	Clewiston	33440	N	G	80	0	0	120			
Seminole Tribe of Florida	1				N	G		484	9,680		484	L	use only with prior agreement/tribe
Seminole Tribe of Florida	2				N	G		262	5,240		262	L	use only with prior agreement/tribe
Seminole Tribe of Florida	3				N	G		193	3,860		193	L	use only with prior agreement/tribe
Upthegrove ES	23	280 North Main Street	Labelle	33935	R	G	368	368	7,360		368	S-1467-2004	
VFW Post 10100		SR29	LaBelle	33935	R	G		84	1,680		0		per Shelter Study
<b>TOTALS FOR HENDRY COUNTY</b>							<b>8,132</b>	<b>6,311</b>	<b>118,060</b>	<b>3,524</b>	<b>6,197</b>		<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result				
Storm Category 4/5	6,311	12,348	-6,037	118,060			246,960	-128,900					
Special Needs Storm Shelters													
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments

2008 Statewide Emergency Shelter Plan

HENDRY												
West Glades ES (Glades County)		2500 S. CR731	LaBelle	33935			yes				75	combined with Glades in West Glades
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	0	35	-35	0			2,100	-2,100				

2008 Statewide Emergency Shelter Plan

HERNANDO												
Name	Bldg. #	Address	City	Zip	Retrofit ed (R) or New Constru ction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Brooksville Elementary School- Bldgd 2B	2B	250 East Kelly Street	Brooksville	34601	R	G	14,185	0	0	0		not retrofitted?
Brooksville Elementary School - Bldg. 8H	8H	250 East Kelly Street	Brooksville	34601	R	G	4,829	0	0	0		not retrofitted?
Central High School - Bldg. 3C	3c	14075 Ken Austin Parkway	Brooksville	34602			10,091	0	0	0		
Central High School - Bldg. 5E	5e	14075 Ken Austin Parkway	Brooksville	34602			7,140	0	0	0		
Challenger K-12	1 (1st floor)	13400 Elcan	Spring Hill	34609-0401	N	G		0	0			New School: Aug 05
Chocachatti Elementary School - Bldg. 3	3	4135 California Street	Brooksville	34609			7,279	0	0	0		
Chocachatti Elementary School - Bldg. 4	4	4135 California Street	Brooksville	34609	N	G	5,603	361	9,033	0	280	
Chocachatti Elementary School - Bldg. 5	5	4135 California Street	Brooksville	34609	N	G	5,836	357	8,923	0	292	
Chocachatti Elementary School - Bldg. 6	6	4135 California Street	Brooksville	34609				0	0			
Christ Lutheran Church - Bldg. 1	1	475 West North Avenue	Brooksville	34601			2,584	0	0	0		
Deltona Elementary School - Bldg. 300	300	2055 Deltona Boulevard	Springhill	N/A	R	G	8,157	408	7,599	0	408	
Deltona Elementary School - Bldg. 400	400	2055 Deltona Boulevard	Springhill	N/A	R	G	5,765	288	4,494	0	288	
Deltona Elementary School - Bldg. 500	500	2055 Deltona Boulevard	Springhill	N/A			3,917	0	0	0		
Eastside Elementary School - Bldg. 600	600	2715 Roper Drive	Springhill	34602			2,774	0	0	0		
Eastside Elementary School - Bldg. 800	800	2715 Roper Drive	Springhill	34602			7,957	0	0	0		
Eastside Elementary School - Bldg. 900	900	2715 Roper Drive	Springhill	34602			7,072	0	0	0		
First United Methodist Church - Bldg. 1	1	109 South Broad Street	Brooksville	34601			3,145	0	0	0		
Fox Chapel Middle School - Bldg. 300	300	9412 Fox Chapel Lane	Springhill	34609	R	G	6,055	0	0	303		
Fox Chapel Middle School - Bldg. 600	600	9412 Fox Chapel Lane	Springhill	34609			7,879	0	0	0		
Hernando High School - Bldg. 17	17	200 East Kelly Street	Brooksville	34601			4,054	0	0	0		
Hernando High School - Bldg. 25	25	200 East Kelly Street	Brooksville	34601			10,659	0	0	0		
Hernando High School - Bldg. 26	26	200 East Kelly Street	Brooksville	34601			6,338	0	0	0		
Hernando High School- Bldg 15	15	200 East Kelly Street	Brooksville	34601	R	G		0	0	126		
J.D. Floyd Elementary School - Bldg. 900	900	3139 Dumont Avenue	Springhill	34609			5,616	0	0	0		
Knights of Columbus - Bldg. 1	1	10470 Spring Hill Drive	Springhill	34608			4,467	0	0	0		
Masarytown Community Center - Bldg. 1	1	539 Lincoln Avenue	Masarytown	34609			3,825	0	0			
Moton School Center - Bldg. 400	400	7175 Emerson Road	Brooksville	34601	R	G	5,283	264	4,494		264	
Moton School Center - Bldg. 500	500	7175 Emerson Road	Brooksville	34601	R	G	5,865	0	0	293		
Nature Coast Tech High	Gym	4057 California Street	Brooksville	34604	N	G		779	11,696		800	opens Aug 03
Parrot Middle School - Bldg. 2	2	19220 Youth Drive	Brooksville	34601	R	G	8,010	228	4,569		228	
Parrot Middle School - Bldg. 3	3	19220 Youth Drive	Brooksville	34601	R	G	9,710	171	3,438		172	
Pasco/Hernando Community College - Bldg. 1	1a	11415 Ponce de Leon Blvd	Brooksville	34601			1,102	0	0			
Pinegrove Elementary School - Bldg. 7	7	14411 Ken Dustin Parkway	Brooksville	34613			4,570	0	0			
Pinegrove Elementary School - Bldg. 8	8	14411 Ken Dustin Parkway	Brooksville	34613			4,570	0	0			
Pinegrove Elementary School - Bldg. 9	9	14411 Ken Dustin Parkway	Brooksville	34613			5,252	0	0			
Powell Middle School - Bldg. 1000	1000	14400 Powell Road	Brooksville	34609			8,150	0	0			
Powell Middle School - Bldg. 400	400	14400 Powell Road	Brooksville	34609			4,233	0	0			
Powell Middle School - Bldg. 500	500	14400 Powell Road	Brooksville	34609			4,515	0	0			
Ridge Manor Community Center - Bldg. 1	1	Cortez Boulevard	Brooksville	34204			2,143	0	0			
Spring Hill Elementary School - Bldg. 100	100	6000 Roble	Springhill	34608			2,754	0	0			
Spring Hill Elementary School - Bldg. 900	900	6000 Roble	Springhill	34608			6,589	0	0			
Springstead High School - Bldg. 12	12	2300 Mariner Boulevard	Springhill	34609			7,125	0	0			
Springstead High School - Bldg. 1c	1c	2300 Mariner Boulevard	Springhill	34609			5,440	0	0			
Springstead High School - Bldg. 1g	1G	2300 Mariner Boulevard	Springhill	34609	R	G	9,701	0	0	218		
Suncoast Elementary School - Bldg. 100		11135 Quality Drive	Springhill	34609			1,862	0	0			
Suncoast Elementary School - Bldg. 500	500	11135 Quality Drive	Springhill	34609	R	G	4,902	0	0			
West Hernando Middle School - Bldg. 300	300	9412 Fox Chapel Lane	Springhill	34606			11,092	0	0			
West Hernando Middle School - Bldg. 400	400	9412 Fox Chapel Lane	Springhill	34606			11,010	0	0			
West Hernando Middle School - Bldg. 600	600	9412 Fox Chapel Lane	Springhill	34606	R	P	6,647	0	0			
West Hernando Middle School - Bldg. 800	800	9412 Fox Chapel Lane	Springhill	34606	R	G	11,050	0	0			
Westside Elementary School - Bldg. 4	4	5400 Applegate Drive	Springhill	34606			7,990	0	0			
<b>TOTALS FOR HERNANDO COUNTY</b>							<b>294,792</b>	<b>2,856</b>	<b>54,246</b>	<b>940</b>	<b>2,732</b>	
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand In People</b>	<b>Surplus/ Deficit (ft2)</b>		<b>Result</b>		
Storm Category 4/5	2,856	2,971	-115	54,246			59,420	-5,174				

2008 Statewide Emergency Shelter Plan

HERNANDO												
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Challenger K-12	1 (1st floor)	13400 Elcan Blvd	Spring Hill	34609-0401	N	G		666	40,000		265	New School: Aug 05
Hernando High School - Bldg. 17	17	200 East Kelly Street	Brooksville	34601			No					
Hernando High School - Bldg. 25	25	200 East Kelly Street	Brooksville	34601			No					
Hernando High School - Bldg. 26	26	200 East Kelly Street	Brooksville	34601			No					
Hernando High School- Bldg 15	15	200 East Kelly Street	Brooksville	34601			No					
West Hernando Middle School	6	9412 Fox Chapel Lane	Springhill	34606			Yes	0	0		178	Need to confirm retrofits- capacity per ARMOR
West Hernando Middle School	8	9412 Fox Chapel Lane	Springhill	34606			Yes	0	0		213	Need to confirm retrofits- capacity per ARMOR
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	666	1,700	-1,034	39,960			102,000	-62,040				

2008 Statewide Emergency Shelter Plan

HIGHLANDS												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Agri-Civic Center		4505 George Blvd	Sebring				506	0	0	126		not surveyed, but shuttered
Apostolic Church of Jesus		956 Carolina Avenue	Avon Park	33825			107	0	0	107		
Avon Elementary School Cafeteria	10-Cafeteria	705 West Winthrop	Avon Park	33825	N	G	165	249	7,654		249	
Avon Park High School	6-Cafeteria	700 East Main Street	Avon Park	33825	R	G	1,250	563	11,270	625	300	shuttered per county
Avon Park Middle School		South Lake Avenue	Avon Park	33825			1,213	0	0	645		
Avon Park Public Works		221 US 27 South	Avon Park	33825	N	G		365	8,600	0	365	
Avon Park Recreation		207 East State St	Avon Park	33825	N	G	602	554	13,040	0	554	
Cracker Trail Elementary School	400	8200 Sparta Road	Sebring	33870	R	G	235	184	3,672	118	200	shuttered per county
Emmanuel United Church		3115 Hope Street	Sebring	33872			38	0	0	38		
First Presbyterian Church - Lake Placid		117 North Oak Street	Lake Placid	33852			100	0	0	50		
First United Methodist Church		125 South Pine Street	Sebring	33879			0	0	0	0		
Fred Wild Elementary School cafeteria	13	1910 South Highlands Ave	Sebring	33870	N	G	205	249	7,654		249	
Highlands County Health Deput		7205 Georg Blvd	Sebring				50	0	0			
Hill/ Gustat Middle School		4700 Schumacher Road	Sebring	33870			740	0	0	370		
Jack and Jill Child Care		738 Glenwood Avenue	Sebring	33879			41	0	0	41		
Lake County Elementary School		516 County Road 29	Lake Placid	33852			235	0	0	118		
Lake Placid Elementary School	NEW classrooms	101 Green Dragon Drive	Lake Placid	33852	N	G	205	200	4,000	103	200	new classrooms in 06-07
Lake Placid High School		202 Lake Drive	Lake Placid	33852			1,335	0	0	668		
Lake Placid Middle School		201 Tangerine Drive	Lake Placid	33852			760	0	0	380		
Park Elementary School		327 East Palmetto	Avon Park	33825			235	0	0	118		
Reflection on Silver Lake		1850 US 27 South	Avon Park	33825			142	0	0	142		
Restoration Church		8475 Sparta Rd	Sebring				450	0	0			
Royal Care of Avon Park Rehab & Nursing Home		1281 West Stratford Road	Avon Park	33825			200	0	0	90		
Sebring Church of the Nazarene		318 South Commerce Ave	Sebring	33870			100	0	0	50		
Sebring Country Estates Civic Association		3240 Grand Prix Drive	Sebring	33872			63	0	0	63		
Sebring High School	Auditorium	3514 Kenilworth Boulevard	Sebring	33870	N	G	1,260	220	6,780		220	shuttered
Sebring Middle School		500 East Center	Sebring	33870			1,133	0	0	633		
Skate Center		125 Commerce	Lake Placid	33852			75	0	0	38		
South Florida Community College	Bldg a	600 West College Dr	Avon Park	33825	N	G	680	217	6,680	0	217	
St. Johns United Methodist Church		3214 Grand Prix Drive	Sebring	33872			40	0	0	40		
Sun'N Lake Elementary School		4515 Ponce De Leon	Sebring	33870			265	0	0	133		
Temple Israel of Highlands County		1305 Hillside Drive	Sebring	33870			25	0	0	25		
The Elks - Lake Placid		200 CR 621 East	Lake Placid	33852			120	0	0	120		
Walker Memorial Seventh Day Adventist		1410 West Avon Boulevard	Avon Park	33825			100	0	0	50		
Woodlawn Elementary School Cafeteria	2	718 Fielder Boulevard	Sebring	33870	N	G	180	249	7,654	90	249	
<b>TOTALS FOR HIGHLANDS COUNTY</b>							<b>12,855</b>	<b>3,050</b>	<b>77,004</b>	<b>4,981</b>	<b>2,803</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	3,050	9,450	-6,400	77,004			189,000	-111,996				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
TBD - Pick on of the EHPA's												
Highlands Agri-Civic Center		4505 George Blvd	Sebring				No	0	0	42	122	not surveyed but shuttered
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	0	142	-142	0			8,520	-8,520				





2008 Statewide Emergency Shelter Plan

HILLSBOROUGH												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Adams Middle (EHPA)	11	10201 N. Boulevard	Tampa	33612	N	G		181	3,628		181	
Adams Middle (EHPA)	7/Gym	10201 N. Boulevard	Tampa	33612	N	G	1,100	465	9,300		465	
Bartels Middle (EHPA)		9020 Imperial Oaks Blvd	Tampa	33614	N	G	4,500	1,800	36,000		1,800	
Bellamy Elementary (EHPA)	3	9720 Wilsky Blvd	Tampa	33615	N	G	1,000	500	10,000		500	
Benito Elementary	2,3,6	10101 Cross Creek Blvd	Tampa	33647	R	G	2,790	1,811	36,220		1,811	
Bevis Elementary (EHPA)	2	5720 Osprey Ridge Dr	Lithia	33547	N	G	5,000	411	8,220		411	
Bevis Elementary (EHPA)	3	5720 Osprey Ridge Dr	Lithia	33547	N	G		411	8,220		411	
Bloomington High	13	1700 E. Bloomington Ave	Valrico	33594	R	G	7,200	828	16,560		828	
Boyette Springs ES (EHPA)	16	10141 Sedgebrook Dr	Riverview	33569	N	G	800	500	10,000		500	
Brandon HS (EHPA)	New Addition	1101 Victoria ST	Brandon	33510	N	G	2,500	800	16,000		800	2006-2007
Brooker Elementary (EHPA)	CFK (Clsm for Kids)	812 DeWolf Rd	Brandon	33511	N	G	1,000	500	10,000		500	
Bryant Elementary	2,3	13910 Nine Eagles Rd	Tampa	33626	N	G		1,169	23,380		1,169	
Burnett Middle	1,2,3	1010 N. Kingsway Rd	Seffner	33584	R	G	2,600	1,328	26,560		1,328	
Canella Elementary (EHPA)	13	10707 Nixon Rd	Tampa	33624	N	G	1,000	500	10,000		500	
Carrollwood ES	18	3516 MACFARLAND ROAD	Tampa	33618	N	G		470	3,052		470	
Carver Center (EHPA)	2	2934 E. Hillsborough Ave	Tampa	33610	N	G	800	600	12,000		600	
Chiles Elementary (EHPA)	2	16541 Tampa Palms Blvd	Tampa	33647	N	G		729	14,580		729	
Chiles Elementary (EHPA)	3	16541 Tampa Palms Blvd	Tampa	33647	N	G		729	14,580		729	
Chiles Elementary (EHPA)	CFK (Clsm for Kids)	16541 W. Tampa Palms Blvd	Tampa	33647	N	G	800	500	10,000		500	2006-2007
Cimino Elementary	CFK (Clsm for Kids)	4329 Culbreath Rd	Valrico	33594	N	G	800	500	10,000		500	
Cimino Elementary (EHPA)	2	4329 Culbreath Rd	Valrico	33594	N	G		1,556	31,120		1,556	
Collins ES (EHPA)	3	12424 SUMMERFIELD BOULEVARD	Riverview	33569	N	G		1,968	39,357		1,968	
Cork Elementary (EHPA)	CFK (Clsm for Kids)	3501 N. Cork Rd	Plant City	33565	N	G	1,000	500	10,000		500	
Corr Elementary (EHPA)	3,4	13020 Kings Lake Dr	Gibsonton	33534	N	G		890	17,800		890	
Crestwood Elementary (EHPA)	CFK (Clsm for Kids)	7824 N. Manhattan Ave	Tampa	33614	N	G	1,000	500	10,000		500	
Crestwood ES	13	7824 N. Manhattan Ave	Tampa	33614	R	G	19,950	995	19,900		995	
Cypress Creek Elementary	Cafeteria	4040 19th Ave N.E.	Ruskin	33570			1,295	0	0	76	0	
Deer Park ES (EHPA)	New School	11605 Citrus Park Dr	Tampa	33625	N	G	2,500	1,000	10,000		1,000	2006-2007
Doby Elementary (EHPA)	2,3	6720 Covington Garden Dr	Apollo Beach	33572	N	G	4,500	1,600	32,000		1,600	
Durant High	1,2,3,4,5,6,7	4748 Cougar Path	Plant City	33567	R	G	3,941	2,116	42,320		2,116	
Durant High	New Addition	4748 Cougar Path	Plant City	33567	N	G	1,000	800	16,000		800	2006-2007
Edison Elementary	5	1607 E. Curtis St	Tampa	33610	R	G		0	0		0	Cancelled
Edison Elementary	6	1607 E. Curtis St	Tampa	33610	R	G		0	0		0	Cancelled
Eisenhower Middle (EHPA)	Gym	7620 Big Bend Rd	Gibsonton	33534	N	G		485	9,700		485	
Eisenhower MS	2				R	G		0	0		0	Cancelled
Eisenhower MS	5				R	G		0	0		0	Cancelled
Essrig Elementary	10	13031 Lynn Rd	Tampa	33624	N	G	1,163	441	8,820		441	
Fish Hawk Elementary (EHPA)	2	16815 Dorman Rd	Lithia	33547	N	G		725	14,500		725	
Fish Hawk Elementary (EHPA)	3	16815 Dorman Rd	Lithia	33547	N	G		725	14,500		725	
Forest Hills Elementary	ESE	10112 N. Ola Ave	Tampa	33612	R	G		646	12,920		646	
Forest Hills Elementary	Music	10112 N. Ola Ave	Tampa	33612	R	G		0	0		0	Cancelled
Forest Hills Elementary (EHPA)	CFK (Clsm for Kids)	10112 N. Ola Ave	Tampa	33612	N	G	600	500	10,000		500	
Freedom High	3	17410 Commerce Park Blvd	Tampa	33647	R	G		0	0		0	Cancelled

2008 Statewide Emergency Shelter Plan

HILLSBOROUGH												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Freedom High	6	17410 Commerce Park Blvd	Tampa	33647	R	G		0	0		0	Cancelled
Freedom High	9	17410 Commerce Park Blvd	Tampa	33647	R	G		0	0		0	Cancelled
Freedom High	10	17410 Commerce Park Blvd	Tampa	33647	R	G		0	0		0	Cancelled
Frost ES	3	3950 SOUTH FAULKENBURG ROAD	RIVERVIEW	33569	N	G		411	8,220		356	
Frost ES	4	3950 SOUTH FAULKENBURG ROAD	RIVERVIEW	33569	N	G		422	8,433		422	
GIUNTA MIDDLE SCHOOL	1	4202 SOUTH FAULKENBURG ROAD	Riverview	33569	N	G		1,085	21,700		3,537	
Greco Middle (EHPA)	Gym	6925 E. Fowler	Temple Terrace	33617	N	G	1100	437	8,740		800	
Hammonds ES	New School	8008 N. Mobley RD	Odessa	33556	N	G	2500	1,200	24,000		1,200	2006-2007
Heritage Elementary (EHPA)	3,4	10900 Cross Creek Blvd	Tampa	33647	N	G	1783	1,535	30,700		1,535	
Ippolito Elementary (EHPA)	2,3	6874 S. Falkenburg Rd	Riverview	33569	N	G	2168	1,458	29,160		1,458	
Jennings Middle (EHPA)	3,4	8799 Williams Rd	Seffner	33584	N	G	2060	2,049	40,980		2,049	
Kingswood Elementary (EHPA)	CFK (Clism for Kids)	3102 S. Kings Ave	Brandon	33511	N	G	1,200	500	10,000		500	
Knights Elementary (EHPA)	CFK (Clism for Kids)	4815 N. Keene Rd	Plant City	33565	N	G	1,200	500	10,000		500	
Lake Magdalene ES (EHPA)	CFK (Clism for Kids)	2002 Pine Lake Dr	Tampa	33612		G	600	500	10,000		500	
Lake Magdalene ES	14	2002 Pine Lake Dr	Tampa	33612	R	G	1200	455	9,100		455	
Lennard HS (EHPA)	2	2002 SHELL POINT ROAD	Ruskin	33570	N	G		256	5,120		256	
Lennard HS (EHPA)	7	2002 SHELL POINT ROAD	Ruskin	33570	N	G		415	8,302		415	
Lennard HS (EHPA)	8	2002 SHELL POINT ROAD	Ruskin	33570	N	G		269	5,387		269	
Lewis Elementary	9	6700 E. Whiteway Dr	Temple Terrace	33617	R	G		297	5,940		297	
Liberty Middle	7	17400 Commerce Park Blvd	Tampa	33647	R	G		0	0		0	Cancelled
Limona ES	9	1115 TelFair	Brandon	3350	R	G	2025	184	3,680		184	
Lockhart Elementary	2	3719 N. 17th St	Tampa	33610	R	G	0	0	0		0	Cancelled
Lockhart Elementary	5	3719 N. 17th St	Tampa	33610	R	G	408	1,474	29,480		408	
Lomax Elementary (EHPA)	4	4207 N. 26th St	Tampa	33610	N	G	465	465	9,300		465	
Mann MS	Gym				R	G		0	0		0	Cancelled
Marshall Middle	13	18 S. Maryland Ave	Plant City	33563	R	G		225	4,500		225	
Martinez Middle	3	5601 Lutz Lake Fern Rd	Lutz	33558	R	G		948	18,960		948	
Martinez Middle	4	5601 Lutz Lake Fern Rd	Lutz	33558	R	G		958	19,160		958	
McClane MS	Gym				R	G		0	0		0	Cancelled
McKittrick Elementary (EHPA)	2,3	5503 Lutz Lake Fern Rd	Lutz	33549	N	G	1,375	1,451	29,020		1,451	
McKittrick Elementary (EHPA)	CFK (Clism for Kids)	5503 Lutz Lake fern rd	Lutz	33549	N	G	1,200	800	16,000		800	
McLane MS	20	306 N. Knight	Brandon	33610	R	G	3,130	1,071	21,420		1,071	
Memorial Middle	Gym	4702 N. Cent	Tampa	33603	R	G	800	465	9,300		800	
Mendenhall Elementary (EHPA)	CFK (Clism for Kids)	5202 Mendenhall Dr	Tampa	33603	N	G	1,000	500	10,000		500	
Middleton High (EHPA)	2,3	4801 North 22nd Street	Tampa	33610	N	G	3,312	2,298	45,960		2,298	

2008 Statewide Emergency Shelter Plan

HILLSBOROUGH												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Mort Elementary	4	1806 E. Bearss Ave	Tampa	33613	R	G		0	0		0	Cancelled
Mort Elementary (EHPA)	CFK (Clsm for Kids)	1806 E. Bearss Ave	Tampa	33613	N	G	1,200	500	10,000		500	
Muller Elementary (EHPA)	4	13615 N. 22nd St	Tampa	33613	N	G		310	6,200		310	
Mulrennan Middle (EHPA)	2,4,6	4215 Durant Rd	Valrico	33594	N	G	6,000	2,250	45,000		2,250	
Nelson Elementary (EHPA)	2,3	5413 Durant Rd	Dover	33527	N	G	2,168	1,610	32,200		1,610	
Newsome High (EHPA)	2,7,8	16550 Fish Hawk Blvd	Lithia	33547	N	G	10,000	1,586	31,720		1,586	
Oak Park ES (EHPA)	New School	4322 E. Ellicott ST	Tampa	33610	N	G	2,500	1,000	20,000		1,000	2006-2007
Pizzo Elementary	2,3,4	11701 Bull Run Rd	Tampa	33617	R	G	2,108	1,595	31,900		1,595	
Plant City High	13	1 Raider Pl	Plant City	33566	R	G	6,500	399	7,980		399	
Potter Elementary	11	3224 E. Cayuga St	Tampa	33610	R	G		253	5,060		253	
Potter Elementary	13	3224 E. Cayuga St	Tampa	33610	R	G		253	5,060		253	
Pride Elementary (EHPA)	3,4	18271 Kinnan St	Tampa	33647	N	G	2,500	1,114	22,280		1,114	
Randall Middle	1,3	16510 Fish Hawk Blvd	Lithia	33547	R	G	5,500	813	16,260		813	
Riverview High, Building #10	10	11311 Boyette Rd	Riverview	33569	R	P		350	7,000		350	
Riverview Hs	5	11311 Boyette Rd	Riverview	33569	R	G		0	0		0	
Riverview Hs	10	11311 Boyette Rd	Riverview	33569	R	G		0	0		0	
Robinson ES	12	4801 S. Turkey Creek Rd	Plant City	33567	R	G	1,745	404	8,080		563	
Robles ES	15	4405 E. Sligh Ave	Tampa	33610	R	G	351	351	7,020		351	
Robles ES	16	4405 E. Sligh Ave	Tampa	33610	R	G	171	171	3,420		171	
Rodgers Middle	1,2,3	11910 Tucker Rd	Riverview	33569	R	G	2,361	1,496	29,920		1,243	
Schmidt Elementary	3	1250 Williams Rd	Brandon	33510	N	G	2,659	890	17,800		890	
Sessums Elementary (EHPA)	2,3	11525 Ramble Creek Dr	Riverview	33569	N	G	3,382	1,564	31,280		2,099	
Sheehy Elementary (EHPA)	4	N. 40th St	Tampa	33610	N	G	1,199	996	19,920		625	
Shields Middle (EHPA)	3	3908 N.E. 19th Ave	Ruskin	33570	N	G	1,021	675	13,500		1,025	
Shields Middle (EHPA)	4	3908 N.E. 19th Ave	Ruskin	33570	N	G	1,021	675	13,500		1,025	
Shields MS CFK	CFK (EHPA)	3908 N.E. 19th Ave	Ruskin	33573	N	G	1,700	540	10,800		720	
Sickles High	3,7	7950 Gunn Hwy	Tampa	33626	R	G	4,000	961	19,220		961	
Sickles HS CFK	CFK (EHPA)	7950 Gunn Hwy	Tampa	33626	N	G	2,000	540	10,800		720	
Simmons Center (EHPA)	1	901 South Evers St	Plant City	33566	N	G	535	388	7,760		425	
Sligh MS	15	2011 E. Sligh Ave	Tampa	33610	R	G	1720	312	6,240		589	
SPOTO HIGH SCHOOL	3	8538 EAGLE PALM DRIVE	Riverview	33569	N	G	2300	820	16,402		820	
SPOTO HIGH SCHOOL	4	8538 EAGLE PALM DRIVE	Riverview	33569	N	G	2150	1,347	26,930		1,347	
Springhead Elementary (EHPA)	CFK (Clsm for Kids)	3208 Nesmith Rd	Plant City	33566	N	G	800	500	10,000		500	
Sulphur Springs ES	1	8412 N. 13th St	Tampa	33604	R	G	2132	867	17,340		1,534	
Summerfield Crossings ES (EH	New School	Fairway Meadows Drive	RIVERVIEW	33569	N	G	2500	1,200	24,000		1,200	2006-2007
Summerfield ES CFK	CFK (EHPA)	11990 Big Bend Rd	Riverview	33569	N	G	1,200	400	8,000		540	
SYMMES ELEMENTARY	3	6280 WATSON ROAD	RIVERVIEW	33569	N	G		350	7,002		350	
SYMMES ELEMENTARY	4	6280 WATSON ROAD	RIVERVIEW	33569	N	G		337	6,749		337	
Tampa Bay Blvd ES (EHPA)	CFK (Clsm for Kids)	3111 Tampa Bay Blvd	Tampa	33607	N	G	600	800	16,000		800	
Tampa Bay Blvd. Elementary	3	3111 Tampa Bay Blvd	Tampa	33607	R	G		0	0		0	Cancelled
Tampa Bay Blvd. Elementary	4	3111 Tampa Bay Blvd	Tampa	33607	R	G		0	0		0	Cancelled
Tampa Bay Blvd. Elementary	6	3111 Tampa Bay Blvd	Tampa	33607	R	G	685	226	4,520		226	
Tampa Palms ES (EHPA)	CFK (Clsm for Kids)	6100 Tampa Palms Blvd	Tampa	33647	N	G	1,200	500	10,000		500	
Temple Terrace ES (EHPA)	CFK (Clsm for Kids)	124 Flotto Ave	Temple Terrace	33617	N	G	1,200	500	10,000		500	2006-2007

2008 Statewide Emergency Shelter Plan

HILLSBOROUGH												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Tomiin Middle	10	501 N. Wilson St	Plant City	33563	R	G	2086	439	8,780		439	
Turkey Creek Middle	8	5005 S. Turkey Creek Rd	Plant City	33567	R	G	2972	594	11,880		594	
Turner ES (EHPA)	2	9190 IMPERIAL OAK BOULEVARD	TAMPA	33614	N	G		349	6,972		349	
Turner ES (EHPA)	3	9190 IMPERIAL OAK BOULEVARD	TAMPA	33614	N	G		340	6,792		340	
USF Sun Dome		4202 E. Fowlwr Ave	Tampa	33620	R	P		0	0		0	
Valencia Lakes ES "N"	New School (EHPA)		Wimauma	33598	N	G	2,000	1,000	20,000		1,335	
Valrico ES	3 (1st flr)	609 S. Miller Rd	Valrico	33594	R	G	1010	423	8,460		423	
Valrico ES	4 (1st flr)	609 S. Miller Rd	Valrico	33594	R	G	1025	480	9,600		480	
Valrico ES CFK	CFK (EHPA)	609 S. Miller Rd	Valrico	33594	N	G	1,200	540	10,800		720	
Walden Lake ES CFK	CFK (EHPA)	2800 S. Turkey Creek Rd	Plant City	33566	N	G	900	540	10,800		720	
Walker Middle	2	8282 N. Mobley Rd	Odessa	33556	R	G	1,604	932	18,640		1,527	
Walker Middle	3	8282 N. Mobley Rd	Odessa	33556	R	G	800	300	6,000		300	
Wharton High	2,3,4,9	20150 Bruce B. Downs Blvd	Tampa	33647	R	G		0	0			Decommissioned
Wharton HS CFK	CFK (EHPA)	20150 Bruce B. Downs Blvd	Tampa	33647	N	G	2,000	540	10,800		720	
Whitley Bowers Career Center	7	13609 N. 22nd St	Tampa	33613	N	G	3,500	275	5,500		275	
Williams MS	2	5020 N. 47th	Tampa	33610	R	G	1850	364	7,280		650	
Wilson ES	3	702 English St	Plant City	33563	R	G	1139	648	12,960		721	
Young MS	8	1807 E. Dr. MLK Blvd	Tampa	33610	R	G	2309	629	12,580		527	
								0	0			
								0	0			
<b>TOTALS FOR HILLSBOROUGH COUNTY</b>							<b>197,868</b>	<b>91,043</b>	<b>1,804,506</b>	<b>76</b>	<b>97,050</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	91,043	132,510	-41,467	1,804,506			2,650,200	-845,694				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNs Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNs Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Armwood HS		12000 Us Highway 92	Seffner	33854			No	0	0			
Erwin Tech		2010 E. Hillsborough Ave	Tampa	33610			Yes	0	0	500		
Riverview HS	10	11311 Boyette Rd	Riverview	33569	N	P	Yes	350	21000		400	
TBD 2							No	0	0			
USF Sun Dome		4202 E. Fowlwr Ave	Tampa	33620	R	P	Yes	1,500	90,000		1,000	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	1,850	4,500	-2,650	111,000			270,000	-159,000				

**2008 Statewide Emergency Shelter Plan**

<b>HOLMES</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bethlehem High School		2667 Hwy 160	Bonifay	32425			1,905	0	0	0	1,905	0
Bonifay Middle School		401 McLaghlin Avenue	Bonifay	32425			356	0	0	356	356	0
Holmes County Agricultural Center		Rt 1 Box 408 Hwy 90 E	Bonifay	32425			436	0	0	0	436	0
Holmes High School		825 West Hwy 90	Bonifay	32425			942	0	0	0	942	0
New Hope VFD		1243 Hwy 179-A	Westville	32464	R	G	179	179	3,585		179	under construction
Ponce De Leon Elementary School		1473 Ammons Road	Ponce de Leon	32455			195	0	0	0	195	0
Ponce De Leon High School - Gym	Gym	1477 Ammons Road	Ponce de Leon	32425			515	0	0	0	515	0
Poplar Springs HS (new)- Classroom	4	3726 Atomic Drive	Graceville	32440				0	0			not EHPA
Poplar Springs HS (new)- Classroom	5	3726 Atomic Drive	Graceville	32440				0	0			not EHPA
Poplar Springs HS (new)- Classroom	6	3726 Atomic Drive	Graceville	32440				0	0			not EHPA
Poplar Springs HS (new)- Gym	3 (non-SpNs)-Gym	3726 Atomic Drive	Graceville	32440	N	G	1,045	612	12,244		1,045	part used Spns- rest regular
Poplar Springs HS(new)- Cafeteria	7 - Cafeteria	3726 Atomic Drive	Graceville	32440	N	G	534	309	6,183		534	open in 2005
<b>TOTALS FOR HOLMES COUNTY</b>							<b>6,107</b>	<b>1,100</b>	<b>22,012</b>	<b>356</b>	<b>6,107</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	1,100	1,120	-20	22,012			22,400	-388				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage	Comments
Poplar Springs HS	Gym/3 (part of it)	3726 Atomic Drive	Graceville	32440	N	G	Yes	38	2,280		38	
									0			
									0			
									0			
									0			
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	38	20	18	2,280			1,200	1,080				

2008 Statewide Emergency Shelter Plan

INDIAN RIVER												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Fellsmere Elementary School	700	50 North Cypress Street	Fellsmere	32948	R	G	108	570	8,041	0	570	
Gifford Middle School	600	2726 45th Street	Vero Beach	32967	R	G	0	159	1,982	0	159	
Gifford Middle School	1200	2726 45th Street	Vero Beach	32967	R	G	0	168	4,383	0	168	
Gifford Middle School	Gym	2726 45th Street	Vero Beach	32967		G	240	0	0	0		
Glendale Elementary School	3	4940 8th Street	Vero Beach	32960		G	106	0	0	146		
Glendale Elementary School	4	4940 8th Street	Vero Beach	32960		G	44	0	0	44		
Highlands Elementary School	1	500 SW 20th Street	Vero Beach	32962		G	106	0	0	190		
Highlands Elementary School	2	500 SW 20th Street	Vero Beach	32962		G	0	0	0	415		
Highlands Elementary School	3	500 SW 20th Street	Vero Beach	32962		G	0	0	0	403		
J. A. Thompson Elementary School	MultiPur.	1110 18th Avenue SW	Vero Beach	32962	R	G	158	0	0	1,106		
Treasure Coast ES (Old Liberty Magall		8955 85th Street	Sebastian	32958	R	P	500	0	0			changed to SpNS
Oslo Middle School	200	480 SW 20th Street	Vero Beach	32962	R	G	0	579	10,750	0	579	
Oslo Middle School	500	480 SW 20th Street	Vero Beach	32962	R	G	0	158	2,055	0	158	
Oslo Middle School	600	480 SW 20th Street	Vero Beach	32962	R	G	0	243	7,127	0	243	
Oslo Middle School	700	480 SW 20th Street	Vero Beach	32962	R	G	0	579	10,660	0	579	
Oslo Middle School	900	480 SW 20th Street	Vero Beach	32962	R	G	0	580	10,675	0	580	
Oslo Middle School	Gym	480 SW 20th Street	Vero Beach	32962		G	377	0	0	0		
Pelican Island Elementary School	1	1355 Schumann Drive	Sebastian	32958		G	0	0	0	131		
Pelican Island Elementary School	1a	1355 Schumann Drive	Sebastian	32958		G	0	0	0	280		
Pelican Island Elementary School	1b	1355 Schumann Drive	Sebastian	32958		G	0	0	0	494		
Pelican Island Elementary School	Dining Area/Stage	1355 Schumann Drive	Sebastian	32958		G	102	0	0	102		
Pelican Island Elementary School	MultiPur.	1355 Schumann Drive	Sebastian	32958	R	G	61	61	999	61	61	
Pelican Island Elementary School	Music Room	1355 Schumann Drive	Sebastian	32958		G	0	0	0	31		
Sebastian Elementary School	900	400 CR 512	Sebastian	32958	R	G	114	371	4,800	1,470	371	
Sebastian River High School	A	9001 90th Avenue	Sebastian	32958	R	P	303	0	8,072	0		
Sebastian River High School	C	9001 90th Avenue	Sebastian	32958	R	P	0	0	6,450	0		
Sebastian River High School	F	9001 90th Avenue	Sebastian	32958	R	P	0	0	7,600	0		
Sebastian River High School	G	9001 90th Avenue	Sebastian	32958	R	P	0	0	5,011	0		
Sebastian River High School	Gym	9001 90th Avenue	Sebastian	32958		G	393	0	0	0		
Sebastian River High School	J	9001 90th Avenue	Sebastian	32958	R	P	0	0	7,212	0		
Sebastian River High School	K	9001 90th Avenue	Sebastian	32958	R	P	0	0	735	0		
Sebastian River High School	L	9001 90th Avenue	Sebastian	32958	R	P	0	0	6,077	0		
Sebastian River High School	M	9001 90th Avenue	Sebastian	32958	R	P	0	0	7,337	0		
Sebastian River High School	N	9001 90th Avenue	Sebastian	32958	R	P	0	0	9,595	0		
Sebastian River High School	V	9001 90th Avenue	Sebastian	32958	R	P	0	680	13,600	0		
Sebastian River Middle School	All	9400 CR 512	Sebastian	32968	R	G	0	1,499	59,801	0	1,499	
Sebastian River Middle School	Gym	9400 CR 512	Sebastian	32968		G	300	0	0	0		
Sebastian Senior Center	Center	815 Davis Str	Sebastian	32958	R	G	0	140	2,800	0	140	
Vero Beach High School		1707 16th Street	Vero Beach	32960		G	627	0	0	929		
Vero Beach High School Freshman	All	1507 19th Street	Vero Beach	32960	R	G	0	1,499	51,223	0	1,499	
Vero Beach High School Freshman	Gym	1507 19th Street	Vero Beach	32960		G	304	0	0	0		
								0	0			
								0	0			
<b>TOTALS FOR INDIAN RIVER COUNTY</b>							<b>3,843</b>	<b>7,286</b>	<b>246,985</b>	<b>5,802</b>	<b>6,606</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	7,286	5,764	1,522	246,985			115,280	131,705				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments





2008 Statewide Emergency Shelter Plan

JACKSON												
Name	Bldg. #	Address	City	Zip	Retrofit ted (R) or New Constr uction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Cottondale High School		2680 Levy Street	Cottondale	32431			1,162	0	0			0
Graceville Civic Center		Highway 169	Graceville	32440			189	0	0			0
Graceville High School		5539 Brown Street, Hwy	Graceville	32440			516	0	0			0
Grand Ridge High School		6925 Florida Street	Grand Ridge	32442			431	0	0			0
Marianna High School		2979 Daniels Street	Marianna	32446			705	0	0			0
new Marianna High School	Area A	3546 Caverns RD	Marianna	32448	N	G		354	8,949		354	capacity per ARMOR
new Marianna High School	Area B	3546 Caverns RD	Marianna	32448	N	G		1,062	15,932		1,429	partly SpNS (1980sf)
new Marianna High School	Area C	3546 Caverns RD	Marianna	32448	N	G		284	5,683		284	capacity per ARMOR
new Marianna High School	Area D/D1	3546 Caverns RD	Marianna	32448	N	G		354	7,071		354	capacity per ARMOR
new Marianna High School	Area E	3546 Caverns RD	Marianna	32448	N	G		253	5,841		253	capacity per ARMOR
new Marianna High School	Area F/F1	3546 Caverns RD	Marianna	32448	N	G		228	4,565		228	capacity per ARMOR
Sneads High School		8066 Old Spanish	Sneads	32460			518	0	0			0
Sunland Center- Marianna	Residence Bldgs	3700 Williams Drive	Marianna	32446			360					host only- clients 360
Sunland Center- Marianna	Non-Residence Bldg	3700 Williams Drive	Marianna	32446			395					host only- clients 395
Chipola Junior College	PSC		marianna	32448	R	G		499	9,980		499	capacity per ARMOR
Family Service Center	1				R	G		0	0			
Golson ES	East				R	G		0	0			
Golson ES	West				R	G		0	0			
Malone SHS	14		Malone		R	G		0	0			1588-2006-not done
Graceville HS	2		Graceville		R	G		0	0			1588-2006-not done
<b>TOTALS FOR JACKSON COUNTY</b>							<b>4,276</b>	<b>3,034</b>	<b>58,021</b>	<b>0</b>	<b>3,401</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	3,034	3,116	-82	58,021			62,320	-4,299				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergnecy Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
New Marianna Hs	Area B (part of area	3546 Caverns RD	Marianna	32448			No	33	1,980		33	capacity per ARMOR
TBD												
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	33	180	-147	1,980			10,800	-8,820				

2008 Statewide Emergency Shelter Plan

JEFFERSON

Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Construct ion (N)	Gener al (G), PSN (P), Pet - Friendl y (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
First Baptist Church		325 West Washington St	Monticello	32344			100	0	0	100		0
First United Methodist Church		325 West Walnut Street	Monticello	32344			75	0	0	75		0
Jefferson County High School		555 Tiger Lane	Monticello	32344			300	0	0	300		0
Mormon Church		Spring Hollow Road	Monticello	32344			40	0	0	40		0
New Jefferson County High	Gym & Café	BOLTON ROAD	Bolton	32344	N	G		809	14,790		809	
								0	0			
								0	0			
<b>TOTALS FOR JEFFERSON COUNTY</b>							<b>515</b>	<b>809</b>	<b>14,790</b>	<b>515</b>	<b>809</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result		
Storm Category 4/5	809	1,065	-256	14,790			21,300	-6,510			

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Uses Regional Shelter									0			
									0			

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft <sup>2</sup> )			Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result		
Storm Category 4/5	0	32	-32	0			1,920	-1,920			

2008 Statewide Emergency Shelter Plan

LAFAYETTE												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
4th District Community Ctr- 16 miles East of Mayo		Hwy 27 South	Mayo	32066			122	0	0	0		0
Airline Community Ctr - 5 miles East of Mayo		Hwy 27 South	Mayo	32066			42	0	0	0		0
Day Community Center - North of Day		CR 53	Mayo	32066			205	0	0	0		0
Lafayette High School Gym	32-gym	US 27 East	Mayo	32066			450	0	0	450		0
Lafayette High School, Cafeteria	2-cafeteria	US 27 East	Mayo	32066	R	G	392	238	3,576		278	
Mayo Community Ctr - 1 mile West of Mayo		Hwy 27 North	Mayo	32066			183	0	0	0		0
Oakridge Assisted Living		1343 Johns St	Mayo	32066	N	P		0	0		90	
								0	0			
<b>TOTALS FOR LAFAYETTE COUNTY</b>							<b>1,394</b>	<b>238</b>	<b>3,576</b>	<b>450</b>	<b>368</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	238	1,000	-762	3,576			20,000	-16,424				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Oakridge Assisted Living		1343 Johns St	Mayo	32066	N	P	YES???	60	3,600		90	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	60	1	59	3,600			60	3,540				

2008 Statewide Emergency Shelter Plan

LAKE												
Name	Bldg. #	Address	City	Zip	Retrofit d (R) or New Constructi on (N)	General (G), PSN (P), Pet -Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Astatula Elementary School for the Arts	1	13925 Florida Avenue	Astatula	34705		G/A	0	79	1,570		102	per State Study
Astatula Elementary School for the Arts	2	13925 Florida Avenue	Astatula	34705		G/A	0	358	6,158		278	per State Study
Astatula Elementary School for the Arts	3	13925 Florida Avenue	Astatula	34705		G/A	0	274	6,820		312	per State Study
Astatula Elementary School for the Arts	4	13925 Florida Avenue	Astatula	34705		G	120	0	0			
Astatula Elementary School for the Arts	5	13925 Florida Avenue	Astatula	34705		G	194	0	0			
Astatula Elementary School for the Arts	6	13925 Florida Avenue	Astatula	34705		G	205	0	0			
Beverly Shores Elementary School	1	1108 West Griffin Road	Leesburg	34745		G	9	0	0			
Beverly Shores Elementary School	2	1108 West Griffin Road	Leesburg	34745		G	60	0	0			
Beverly Shores Elementary School	3	1108 West Griffin Road	Leesburg	34745		G	27	0	0			
Beverly Shores Elementary School	4	1108 West Griffin Road	Leesburg	34745		G	59	0	0			
Beverly Shores Elementary School	5	1108 West Griffin Road	Leesburg	34745		G	57	0	0			
Beverly Shores Elementary School	6	1108 West Griffin Road	Leesburg	34745		G	64	0	0			
Beverly Shores Elementary School	7	1108 West Griffin Road	Leesburg	34745		G	57	0	0			
Beverly Shores Elementary School	8	1108 West Griffin Road	Leesburg	34745		G	80	0	0			
Beverly Shores Elementary School	14	1108 West Griffin Road	Leesburg	34745	N	G	0	205	5,127		106	School Board
Beverly Shores Elementary School	15	1108 West Griffin Road	Leesburg	34745	N	G	0	333	5,597		389	School Board
Beverly Shores Elementary School	16	1108 West Griffin Road	Leesburg	34745	N	G	0	187	4,702		235	School Board
Beverly Shores Elementary School	98	1108 West Griffin Road	Leesburg	34745		G	43	0	0			
Beverly Shores Elementary School	99	1108 West Griffin Road	Leesburg	34745		G	193	0	0			
Carver Middle School	1	1200 North Beecher Street	Leesburg	34745		G	137	0	0			
Carver Middle School	2	1200 N. Beecher Street	Leesburg	34745	N	G	0	1,009	19,037		1,009	School Board
Carver Middle School	3	1200 N. Beecher Street	Leesburg	34745	N	G	0	504	9,997		504	School Board
Carver Middle School	4	1200 N. Beecher Street	Leesburg	34745	N	G	0	486	9,717			Per ehpa list
Carver Middle School	5	1200 North Beecher Street	Leesburg	34745	N	G	0	395	7,909			per ehpa list
Carver Middle School	6	1200 North Beecher Street	Leesburg	34745		G	28	0	0			
Carver Middle School	7	1200 North Beecher Street	Leesburg	34745		G	231	0	0			
Carver Middle School	8	1200 North Beecher Street	Leesburg	34745		G	46	0	0			
Carver Middle School	9	1200 North Beecher Street	Leesburg	34745		G	128	0	0			
Carver Middle School	10	1200 North Beecher Street	Leesburg	34745		G	30	0	0			
Carver Middle School	12	1200 North Beecher Street	Leesburg	34745		G	36	0	0			
Carver Middle School	13	1200 North Beecher Street	Leesburg	34745		G	24	0	0			
Carver Middle School	14	1200 North Beecher Street	Leesburg	34745		G	24	0	0			
Carver Middle School	15	1200 North Beecher Street	Leesburg	34745		G	34	0	0			
Carver Middle School	16	1200 North Beecher Street	Leesburg	34745		G	34	0	0			
Carver Middle School	18	1200 North Beecher Street	Leesburg	34745		G	7	0	0			
Carver Middle School	19	1200 North Beecher Street	Leesburg	34745		G	71	0	0			
Cecil E. Gray Middle School	1	198 East Cherry Street	Groveland	34736		G	179	0	0			
Cecil E. Gray Middle School	2	198 East Cherry Street	Groveland	34736		G	36	0	0			
Cecil E. Gray Middle School	3	198 East Cherry Street	Groveland	34736		G	72	0	0			
Cecil E. Gray Middle School	4	198 East Cherry Street	Groveland	34736		G	47	0	0			
Cecil E. Gray Middle School	5	198 East Cherry Street	Groveland	34736		G	164	0	0			
Cecil E. Gray Middle School	6	198 East Cherry Street	Groveland	34736		G	189	0	0			
Cecil E. Gray Middle School	7	198 East Cherry Street	Groveland	34736		G	54	0	0			
Cecil E. Gray Middle School	17	198 East Cherry Street	Groveland	34736		G	52	0	0			
Cecil E. Gray Middle School	19	198 East Cherry Street	Groveland	34736		G	9	0	0			
Cecil E. Gray Middle School	20	198 East Cherry Street	Groveland	34736		G	33	0	0			
Cecil E. Gray Middle School	21	198 East Cherry Street	Groveland	34736		G	68	0	0			
Cecil E. Gray Middle School	22	198 East Cherry Street	Groveland	34736		G	14	0	0			
Cecil E. Gray Middle School	23	198 East Cherry Street	Groveland	34736		G	40	0	0			
Cecil E. Gray Middle School	24	198 East Cherry Street	Groveland	34736		G	14	0	0			
Cecil E. Gray Middle School	99	198 East Cherry Street	Groveland	34736		G	12	0	0			
Clermont Elementary School	1	245 Second Street	Clermont	34711		G	41	0	0			
Clermont Elementary School	2	245 Second Street	Clermont	34711		G	55	0	0			
Clermont Elementary School	3	245 Second Street	Clermont	34711		G	55	0	0			
Clermont Elementary School	4	245 Second Street	Clermont	34711		G	12	0	0			

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LAKE												
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Clermont Elementary School	5	245 Second Street	Clermont	34711		G	41	0	0			
Clermont Elementary School	6	245 Second Street	Clermont	34711		G	5	0	0			
Clermont Elementary School	7	245 Second Street	Clermont	34711		G	25	0	0			
Clermont Elementary School	8	245 Second Street	Clermont	34711		G	48	0	0			
Clermont Elementary School	9	245 Second Street	Clermont	34711		G	8	0	0			
Clermont Elementary School	10	245 Second Street	Clermont	34711		G	37	0	0			
Clermont Elementary School	11	245 Second Street	Clermont	34711		G	24	0	0			
Clermont Elementary School	13	245 Second Street	Clermont	34711		G	229	0	0			
Clermont Elementary School	14	245 Second Street	Clermont	34711		G	29	0	0			
Clermont Elementary School	17	245 Second Street	Clermont	34711		G	27	0	0			
Clermont Elementary School	18	245 Second Street	Clermont	34711		G	132	0	0			
Cypress Ridge Elementary School	1	350 East Avenue	Clermont	34711		G	27	0	0			
Cypress Ridge Elementary School	8	350 East Avenue	Clermont	34711		G	18	0	0			
Cypress Ridge Elementary School	9	350 East Avenue	Clermont	34711		G	25	0	0			
Cypress Ridge Elementary School	10	350 East Avenue	Clermont	34711		G	13	0	0			
Cypress Ridge Elementary School	11	350 East Avenue	Clermont	34711		G	13	0	0			
Cypress Ridge Elementary School	12	350 East Avenue	Clermont	34711		G	29	0	0			
Cypress Ridge Elementary School	15	350 East Avenue	Clermont	34711		G	66	0	0			
Cypress Ridge Elementary School	19	350 East Avenue	Clermont	34711		G	31	0	0			
Cypress Ridge Elementary School	99	350 East Avenue	Clermont	34711		G	241	0	0			
Dabney Elementary School	1	910 East Dixie Avenue	Leesburg	34748		G	10	0	0			
Dabney Elementary School	2	910 East Dixie Avenue	Leesburg	34748		G	27	0	0			
Dabney Elementary School	3	910 East Dixie Avenue	Leesburg	34748		G	14	0	0			
Dabney Elementary School	4	910 East Dixie Avenue	Leesburg	34748		G	14	0	0			
Dabney Elementary School	5	910 East Dixie Avenue	Leesburg	34748		G	27	0	0			
Dabney Elementary School	6	910 East Dixie Avenue	Leesburg	34748		G	27	0	0			
Dabney Elementary School	7	910 East Dixie Avenue	Leesburg	34748		G	29	0	0			
Dabney Elementary School	9	910 East Dixie Avenue	Leesburg	34748		G	16	0	0			
Dabney Elementary School	10	910 East Dixie Avenue	Leesburg	34748		G	16	0	0			
Dabney Elementary School	11	910 East Dixie Avenue	Leesburg	34748		G	31	0	0			
Dabney Elementary School	12	910 East Dixie Avenue	Leesburg	34748		G	27	0	0			
Dabney Elementary School	13	910 East Dixie Avenue	Leesburg	34748		G	10	0	0			
Dabney Elementary School	14	910 East Dixie Avenue	Leesburg	34748		G	29	0	0			
Dabney Elementary School	98	910 East Dixie Avenue	Leesburg	34748		G	12	0	0			
Dabney Elementary School	99	910 East Dixie Avenue	Leesburg	34748		G	49	0	0			
East Ridge High School	1	13322 Excalibur Road	Clermont	34711	N	G	362	0	0			
East Ridge High School	2	13322 Excalibur Road	Clermont	34711	N	G	221	0	0			
East Ridge High School	3	13322 Excalibur Road	Clermont	34711	N	G	245	0	0			
East Ridge High School	4	13322 Excalibur Road	Clermont	34711	N	G	256	0	0			
East Ridge High School	5	13322 Excalibur Road	Clermont	34711	N	G	101	0	0			
East Ridge High School	6	13322 Excalibur Road	Clermont	34711	N	G	103	0	0			
East Ridge High School	7	13322 Excalibur Road	Clermont	34711	N	G	134	0	0			
East Ridge High School	8	13322 Excalibur Road	Clermont	34711	N	G	271	0	0			
East Ridge High School	9	13322 Excalibur Road	Clermont	34711	N	G	517	0	0			
East Ridge High School	21	13322 Excalibur Road	Clermont	34711	N	G	0	529	10,570			per ehpa list
Elementary School K	1	416 Midway Avenue	Mascotte	34753	N	G	0	929	18,580	0	929	Secondary Shelter
Eustis Elementary School	1	714 East Citrus Avenue	Eustis	32725		G	362	0	0			
Eustis Elementary School	2	714 East Citrus Avenue	Eustis	32725		G	48	0	0			
Eustis Elementary School	3	714 East Citrus Avenue	Eustis	32725		G	77	0	0			
Eustis Elementary School	5	714 East Citrus Avenue	Eustis	32725		G	8	0	0			
Eustis Elementary School	7	714 East Citrus Avenue	Eustis	32725		G	119	0	0			
Eustis Elementary School	99	714 East Citrus Avenue	Eustis	32725		G	56	0	0			
Eustis Heights Elementary School	1	310 West Taylor Avenue	Eustis	32726		G	59	0	0			
Eustis Heights Elementary School	2	310 West Taylor Avenue	Eustis	32726		G	99	0	0			

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LAKE												
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Eustis Heights Elementary School	4	310 West Taylor Avenue	Eustis	32726		G	22	0	0			
Eustis Heights Elementary School	5	310 West Taylor Avenue	Eustis	32726		G	40	0	0			
Eustis Heights Elementary School	6	310 West Taylor Avenue	Eustis	32726		G	40	0	0			
Eustis Heights Elementary School	7	310 West Taylor Avenue	Eustis	32726		G	41	0	0			
Eustis Heights Elementary School	8	310 West Taylor Avenue	Eustis	32726		G	70	0	0			
Eustis Heights Elementary School	11	310 West Taylor Avenue	Eustis	32726		G	35	0	0			
Eustis Heights Elementary School	12	310 West Taylor Avenue	Eustis	32726		G	79	0	0			
Eustis Heights Elementary School	13	310 West Taylor Avenue	Eustis	32726		G	91	0	0			
Eustis Heights Elementary School	98	310 West Taylor Avenue	Eustis	32726		G	12	0	0			
Eustis Heights Elementary School	99	310 West Taylor Avenue	Eustis	32726		G	285	0	0			
Eustis High Curtrught Center	1	1801 Bates Avenue	Eustis	32726		G	18	0	0			
Eustis High Curtrught Center	3	1801 Bates Avenue	Eustis	32726		G	74	0	0			
Eustis High Curtrught Center	4	1801 Bates Avenue	Eustis	32726		G	38	0	0			
Eustis High Curtrught Center	5	1801 Bates Avenue	Eustis	32726		G	33	0	0			
Eustis High Curtrught Center	6	1801 Bates Avenue	Eustis	32726		G	162	0	0			
Eustis High Curtrught Center	7	1801 Bates Avenue	Eustis	32726		G	20	0	0			
Eustis High Curtrught Center	9	1801 Bates Avenue	Eustis	32726		G	263	0	0			
Eustis High Curtrught Center	13	1801 Bates Avenue	Eustis	32726		G	61	0	0			
Eustis High Curtrught Center	15	1801 Bates Avenue	Eustis	32726		G	12	0	0			
Eustis High School	1	1300 East Washinton Avenue	Eustis	32726		G	630	0	0			
Eustis High School	2	1300 East Washinton Avenue	Eustis	32726	N	G	586	0	0			School Board
Eustis High School	3	1300 East Washinton Avenue	Eustis	32726	N	G	0	463	11,465		463	School Board
Eustis High School	6	1300 East Washinton Avenue	Eustis	32726		G	84	0	0			
Eustis High School	7	1300 East Washinton Avenue	Eustis	32726		G	76	0	0			
Eustis Middle School	1	18726 East Bates Avenue	Eustis	32726		G	143	0	0			
Eustis Middle School	2	18726 East Bates Avenue	Eustis	32726		G	147	0	0			
Eustis Middle School	3	18726 East Bates Avenue	Eustis	32726		G	160	0	0			
Eustis Middle School	4	18726 East Bates Avenue	Eustis	32726		G	146	0	0			
Eustis Middle School	5	18725 East Bates Avenue	Eustis	32726	N	G	0	632	12,640		632	School Board
Eustis Middle School	6	18726 East Bates Avenue	Eustis	32726		G	90	0	0			
Eustis Middle School	7	18726 East Bates Avenue	Eustis	32726		G	128	0	0			
Eustis Middle School	8	18726 East Bates Avenue	Eustis	32726		G	216	0	0			
Eustis Middle School	99	18726 East Bates Avenue	Eustis	32726		G	15	0	0			
Extra spaces per Lake EM (to be distributed)								0	0			
Fruitland Park Elementary School	1	304 West Fountain Street	Fruitland Park	34731		G	670	0	0			
Fruitland Park Elementary School	2	304 West Fountain Street	Fruitland Park	34731		G	72	0	0			
Fruitland Park Elementary School	12	304 West Fountain Street	Fruitland Park	34731	N	G	0	272	6,287		272	School Board
Fruitland Park Elementary School	98	304 West Fountain Street	Fruitland Park	34731		G	42	0	0			
Fruitland Park Elementary School	99	304 West Fountain Street	Fruitland Park	34731		G	109	0	0			
Grassy Elementary School	1	1100 Fosgate RD	Minneola	34715	N	G		2,659	53,182			per ehpa list
Griffin Education Center	1	510 Palm Avenue	Howey	34737		G	47	0	0			
Griffin Education Center	2	510 Palm Avenue	Howey	34737		G	116	0	0			
Griffin Education Center	6	510 Palm Avenue	Howey	34737		G	308	0	0			
Griffin Education Center	8	510 Palm Avenue	Howey	34737		G	18	0	0			
Griffin Education Center	99	510 Palm Avenue	Howey	34737		G	303	0	0			
Groveland Elementary School	1	930 Parkwood Avenue	Groveland	34736	N	G		613	12,250		613	School Board
Groveland Elementary School	2	930 Parkwood Avenue	Groveland	34736		G	65	0	0			
Groveland Elementary School	3	930 Parkwood Avenue	Groveland	34736		G	184	0	0			
Groveland Elementary School	4	930 Parkwood Avenue	Groveland	34736		G	109	0	0			
Groveland Elementary School	6	930 Parkwood Avenue	Groveland	34736		G	31	0	0			
Groveland Elementary School	7	930 Parkwood Avenue	Groveland	34736		G	43	0	0			
Groveland Elementary School	8	930 Parkwood Avenue	Groveland	34736		G	112	0	0			
Groveland Elementary School	98	930 Parkwood Avenue	Groveland	34736		G	25	0	0			
Groveland Elementary School	99	930 Parkwood Avenue	Groveland	34736		G	205	0	0			
Howey Education Center	1	525 Georgia Avenue	Howey	34737		G	18	0	0			

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Howey Education Center	2	525 Georgia Avenue	Howey	34737		G	33	0	0			
Lake Area Vocational-Technical Center Ast	1	13000 Frankies Road	Tavares	32778		G	39	0	0			
Lake Area Vocational-Technical Center Ast	2	13000 Frankies Road	Tavares	32778		G	33	0	0			
Lake Area Vocational-Technical Center Ast	3	13000 Frankies Road	Tavares	32778		G	148	0	0			
Lake Area Vocational-Technical Center Eus	1	2001 Kurt Street	Eustis	32726		G	276	0	0			
Lake Area Vocational-Technical Center Eus	2	2001 Kurt Street	Eustis	32726		G	164	0	0			
Lake Area Vocational-Technical Center Eus	3	2001 Kurt Street	Eustis	32726		G	11	0	0			
Lake Area Vocational-Technical Center Eus	6	2001 Kurt Street	Eustis	32726		G	16	0	0			
Lake Area Vocational-Technical Center Eus	7	2001 Kurt Street	Eustis	32726		G	12	0	0			
Lake Area Vocational-Technical Center Tav	2	129000 Lane Park Cut-off	Tavares	32778		G	26	0	0			
Lake Area Vocational-Technical Center Tav	3	129000 Lane Park Cut-off	Tavares	32778		G	17	0	0			
Lake Area Vocational-Technical Center Tav	4	129000 Lane Park Cut-off	Tavares	32778		G	17	0	0			
Lake Hills ESE Center	1	909 South Lakeshore Blvd.	Howey	32737	N	G	552	0	0	0	0	Secondary Shelter
Lake Hills School	1	200 W Golf Links Avenue	Eustis	32726		G	62	0	0			
Lake Hills School	99	200 W Golf Links Avenue	Eustis	32726		G	410	0	0			
Lee Education Center	1	207 North Lee Street	Leesburg	34748		G	169	0	0			
Lee Education Center	2	207 North Lee Street	Leesburg	34748		G	50	0	0			
Lee Education Center	3	207 North Lee Street	Leesburg	34748		G	46	0	0			
Lee Education Center	99	207 North Lee Street	Leesburg	34748		G	80	0	0			
Leesburg Elementary School	1	2229 South Street	Leesburg	34748	N	G	0	128	2,560		128	School Board
Leesburg Elementary School	2	2229 South Street	Leesburg	34748	N	G	364	0	0			School Board
Leesburg Elementary School	3	2229 South Street	Leesburg	34748	N	G/A	0	282	6,327		144	School Board
Leesburg Elementary School	4	2229 South Street	Leesburg	34748	N	G/a	0	222	4,929		298	School Board
Leesburg Elementary School	5	2229 South Street	Leesburg	34748	N	G	276	0	0			per State Study
Leesburg Elementary School	6	2229 South Street	Leesburg	34748	N	p/a	0	0	0		72	per State Study
Leesburg High School	1	1401 West Meadows Avenue	Leesburg	34748	N	G	682	0	0			School Board
Leesburg High School	1	1401 West Meadows Drive	Leesburg	34748	N	G	682	0	0			School Board
Leesburg High School	3	1401 West Meadows Avenue	Leesburg	34748	N	G	1,203	0	0			School Board
Leesburg High School	4	1401 West Meadows Avenue	Leesburg	34748	N	G	1,203	0	0			School Board
Leesburg High School	5	1401 West Meadows Avenue	Leesburg	34748	N	G	1,203	0	0			School Board
Leesburg High School	13	1401 West Meadows Avenue	Leesburg	34748		G	119	0	0			
Leesburg High School	14	1401 West Meadows Avenue	Leesburg	34748		G	37	0	0			
Leesburg High School	15	1401 West Meadows Avenue	Leesburg	34748		G	12	0	0			
Leesburg High School	25	1401 West Meadows Avenue	Leesburg	34748	N	G	0	1,063	21,260		1,063	School Board
Lost Lake Elementary School	1	1901 Johns Lake Road	Clermont	34711		G	0	102	2,040		102	School Board
Lost Lake Elementary School	2	1901 Johns Lake Road	Clermont	34711		G	0	409	6,158		278	School Board
Lost Lake Elementary School	3	1901 Johns Lake Road	Clermont	34711		G	0	287	6,820		12	School Board
Lost Lake Elementary School	?	1901 Johns Lake Road	Clermont	34711	N	G	0	0	0			
Middle School DD	4	?	Clermont	34711	N	G	0	1,016	20,320	0	1,016	Secondary Shelter
Minneola Elementary School	1	300 East Pearl Street	Minneola	34755	N	G	0	500	10,000		500	School Board
Mount Dora High School	1	700 North Highland Avenue	Mount Dora	32757	N	G	954	0	0			
Mount Dora High School	5	700 North Highland Avenue	Mount Dora	32757	N	G	0	361	7,220		129	
Mount Dora High School	6	700 North Highland Avenue	Mount Dora	32757	N	G	0	869	17,380		411	
Mount Dora High School	7	700 North Highland Street	Mount Dora	32757	N	G	0	428	10,691		414	School Board
Mount Dora High School	8	700 North Highland Avenue	Mount Dora	32757		G	99	0	0			
Mount Dora High School	9	700 North Highland Avenue	Mount Dora	32757	N	G	0	543	10,929		543	
North Lake Education Center	99	42630 Highway 19	Altoona	32702		G	75	0	0			
Pine Ridge Elementary	1	10245 CR 561	Clermont	34711	N	G/A		109	1,640		43	
Pine Ridge Elementary	3	10245 CR 561	Clermont	34711	N	G/A		267	5,580		154	
Pine Ridge Elementary	4	10245 CR 561	Clermont	34711	N	G/A		222	4,937		235	
Pine Ridge Elementary	6	10245 CR 561	Clermont	34711	N	P/A		186	3,732		232	
Pine Ridge Elementary	?	10245 CR 561	Clermont	34711	N	G	0	0	0			School Board
Rimes Elementary School	1	3101 Schoolview Street	Leesburg	34748		G	6	0	0			

2008 Statewide Emergency Shelter Plan

LAKE												
Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Constructi on (N)	General (G), PSN (P), Pet -Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Rimes Elementary School	2	3101 Schoolview Street	Leesburg	34748		G	49	0	0			
Rimes Elementary School	3	3101 Schoolview Street	Leesburg	34748		G	55	0	0			
Rimes Elementary School	4	3101 Schoolview Street	Leesburg	34748		G	52	0	0			
Rimes Elementary School	5	3101 Schoolview Street	Leesburg	34748		G	74	0	0			
Rimes Elementary School	6	3101 Schoolview Street	Leesburg	34748		G	58	0	0			
Rimes Elementary School	7	3101 Schoolview Street	Leesburg	34748		G	32	0	0			
Rimes Elementary School	9	3101 Schoolview Street	Leesburg	34748		G	52	0	0			
Rimes Elementary School	98	3101 Schoolview Street	Leesburg	34748		G	69	0	0			
Rimes Elementary School	99	3101 Schoolview Street	Leesburg	34748		G	62	0	0			
Round Lake Elementary School	1	31333 Round Lake Road	Mt. Dora	32757		G/A	0	43	860		43	
Round Lake Elementary School	2	31333 Round Lake Road	Mt. Dora	32757		G/A	167	0	0			sf per State Study
Round Lake Elementary School	3	31333 Round Lake Road	Mt. Dora	32757		G/A	0	282	5,580		154	
Round Lake Elementary School	4	31333 Round Lake Road	Mt. Dora	32757		G, A	0	222	4,923		235	
Round Lake Elementary School	5	31333 Round Lake Road	Mt. Dora	32757		G	98	0	0			sf per State Study
Round Lake Elementary School	6	31333 Round Lake Road	Mt. Dora	32757		G,A	0	0	0		243	per State Study
Round Lake Elementary School	99	31333 Round Lake Road	Mt. Dora	32757		G	31	0	0			Sub-Grant Agreement
Sawgrass Bay Elementary School	1	16325 Superior Blvd	Clermont	34714	N	G		2,636	52,727			per ehpa list
Seminole Springs Elementary School	1	26200 West Huff Road	Eustis	32726	R	G	0	0	1,117		0	lift stn issues-host only
Seminole Springs Elementary School	2	26200 West Huff Road	Eustis	32726		G	122	0	0			Sub-Grant Agreement
Seminole Springs Elementary School	3	26200 West Huff Road	Eustis	32726		G	126	0	0			Sub-Grant Agreement
Seminole Springs Elementary School	4	26200 West Huff Road	Eustis	32726	R	G	0	0	2,641		0	lift stn issues-host only
Seminole Springs Elementary School	5	26200 West Huff Road	Eustis	32726		G	140	0	0			
Seminole Springs Elementary School	6	26200 West Huff Road	Eustis	32726		G	111	0	0			
Seminole Springs Elementary School	99	26200 West Huff Road	Eustis	32726		G	61	0	0			
Skeen Elementary School	1	401 South Moss Street	Leesburg	34748		G	76	0	0			
Skeen Elementary School	2	401 South Moss Street	Leesburg	34748		G	39	0	0			
Skeen Elementary School	3	401 South Moss Street	Leesburg	34748		G	41	0	0			
Skeen Elementary School	4	401 South Moss Street	Leesburg	34748		G	33	0	0			
Skeen Elementary School	5	401 South Moss Street	Leesburg	34748		G	41	0	0			
Skeen Elementary School	6	401 South Moss Street	Leesburg	34748		G	32	0	0			
Skeen Elementary School	7	401 South Moss Street	Leesburg	34748		G	40	0	0			
Skeen Elementary School	8	401 South Moss Street	Leesburg	34748		G	40	0	0			
Skeen Elementary School	9	401 South Moss Street	Leesburg	34748		G	66	0	0			
Skeen Elementary School	12	401 South Moss Street	Leesburg	34748		G	54	0	0			
Skeen Elementary School	98	401 South Moss Street	Leesburg	34748		G	25	0	0			
Skeen Elementary School	99	401 South Moss Street	Leesburg	34748		G	170	0	0			
South Lake High 9th Grade Center	1	301 East Avenue	Clermont	34711		G	10	0	0			
South Lake High 9th Grade Center	2	301 East Avenue	Clermont	34711		G	8	0	0			
South Lake High 9th Grade Center	3	301 East Avenue	Clermont	34711		G	65	0	0			
South Lake High 9th Grade Center	4	301 East Avenue	Clermont	34711		G	29	0	0			
South Lake High 9th Grade Center	5	301 East Avenue	Clermont	34711		G	51	0	0			
South Lake High 9th Grade Center	6	301 East Avenue	Clermont	34711		G	58	0	0			
South Lake High 9th Grade Center	7	301 East Avenue	Clermont	34711		G	55	0	0			
South Lake High 9th Grade Center	8	301 East Avenue	Clermont	34711		G	38	0	0			
South Lake High 9th Grade Center	9	301 East Avenue	Clermont	34711		G	97	0	0			
South Lake High 9th Grade Center	11	301 East Avenue	Clermont	34711		G	95	0	0			
South Lake High 9th Grade Center	12	301 East Avenue	Clermont	34711		G	50	0	0			
South Lake High 9th Grade Center	13	301 East Avenue	Clermont	34711		G	55	0	0			
South Lake High 9th Grade Center	14	301 East Avenue	Clermont	34711		G	224	0	0			
South Lake High 9th Grade Center	15	301 East Avenue	Clermont	34711		G	22	0	0			
South Lake High 9th Grade Center	16	301 East Avenue	Clermont	34711		G		0	0			
South Lake High 9th Grade Center	18	301 East Avenue	Clermont	34711		G	38	0	0			
South Lake High 9th Grade Center	20	301 East Avenue	Clermont	34711		G	90	0	0			
South Lake High 9th Grade Center	25	301 East Avenue	Clermont	34711		G	89	0	0			
South Lake High 9th Grade Center	99	301 East Avenue	Clermont	34711		G	56	0	0			



**2008 Statewide Emergency Shelter Plan**

LAKE												
Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Constructi on (N)	General (G), PSN (P), Pet -Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
South Lake High School	1	15600 Silver Lake Road	Groveland	34736	R	G	0	406	8,616		406	
South Lake High School	2	15600 Silver Lake Road	Groveland	34736	R	G	0	335	6,703		503	School Board
South Lake High School	3	15600 Silver Lake Road	Groveland	34736	R	G	0	418	7,661		481	per State Study
South Lake High School	4	15600 Silver Lake Road	Groveland	34736	R	G	0	447	11,167		534	
South Lake High School	5	15600 Silver Lake Road	Groveland	34736	R	G	0	160	2,462		100	
South Lake High School	6	15600 Silver Lake Road	Groveland	34736		G	311	0	0			per State Study
South Lake High School	7	15600 Silver Lake Road	Groveland	34736		G	108	0	0			School Board
South Lake High School	16	15600 Silver Lake Road	Groveland	34736	N	G	0	392	8,336		392	
South Lake High School	17	15600 Siver Eagle Road	Groveland	34736	N	G		734	14,684			per ehpa list
Spring Creek Elementary School	1	44440 Spring Creek Road	Paisley	32767	R	G	0	0	1,188		0	School Board-now hos
Spring Creek Elementary School	2	44440 Spring Creek Road	Paisley	32767	R	G	0	0	0			School Board
Spring Creek Elementary School	3	44440 Spring Creek Road	Paisley	32767		G	175	0	0			
Spring Creek Elementary School	4	44440 Spring Creek Road	Paisley	32767		G	85	0	3,441		0	now -host only
Tavares Elementary School	1	720 East Clifford Street	Tavares	32778	N	G	676	0	0			School Board
Tavares High School	2	603 New Hampshire Avenue	Tavares	32778	N	G	1,513	0	0			School Board
Tavares High School	5	603 New Hampshire Avenue	Tavares	32778		G	57	0	0			School Board
Tavares High School	6	603 New Hampshire Avenue	Tavares	32778	N	G	1,524	0	0			
Tavares High School	7	603 New Hampshire Avenue	Tavares	32778	N	G	0	656	12,053		392	
Tavares High School	8	603 New Hampshire Avenue	Tavares	32778		G	47	0	0			
Tavares High School	15	603 New Hampshire Avenue	Tavares	32778		G	31	0	0			
Tavares Middle School	5	13032 Lane Park Cutoff	Tavares	32778	N	G		632	12,640		632	School Board
Treadway Elementary School	11	10619 Treadway School Ro	Leesburg	34748	N	G,A	0	243	3,735		248	
Treadway Elementary School	12	10619 Treadway School Ro	Leesburg	34748	N	G,A	0	243	4,868		264	
Treadway Elementary School	13	10619 Treadway School Ro	Leesburg	34748	N	G,A	0	187	4,530		220	School Board
Triangle Elementary School	99	1707 Eudora Road	Mount Dora	32757		G	206	0	0			School Board
Umatilla Elementary School	1	60 Smith Street	Umatilla	32784		g/a	0	66	1,641		42	School Board
Umatilla Elementary School	3	60 Smith Street	Umatilla	32784		g/a	0	351	5,271		154	School Board
Umatilla Elementary School	4	60 Smith Street	Umatilla	32784		G/A	0	222	4,923		235	School Board
Umatilla Elementary School	6	60 Smith Street	Umatilla	32784		p/a	0	0	0		90	School Board
Umatilla High School	1	320 North Trowell Avenue	Umatilla	32784		G	20	0	0			School Board
Umatilla High School	23	320 North Trowell Avenue	Umatilla	32784	N	G	1,212	0	0			School Board
Umatilla High School	24	320 North Trowell Avenue	Umatilla	32784	N	G	914	0	0			School Board
Umatilla High School	25	320 North Trowell Avenue	Umatilla	32784	N	G	192	0	0		956	School Board
Umatilla High School	28	320 North Trowell Avenue	Umatilla	32784	N	G	0	714	10,716		379	School Board
Villages Elementary School of Lady Lake	1	695 Rolling Acres Road	Lady Lake	32159		g/a	0	102	2,040		102	per State Study
Villages Elementary School of Lady Lake	2	695 Rolling Acres Road	Lady Lake	32159		p/a	0	0	0		92	per State Study
Villages Elementary School of Lady Lake	3	695 Rolling Acres Road	Lady Lake	32159		G/A	0	284	6,767		312	per State Study
Villages Elementary School of Lady Lake	4	695 Rolling Acres Road	Lady Lake	32159		G	173	0	0			
Villages Elementary School of Lady Lake	5	695 Rolling Acres Road	Lady Lake	32159		G	196	0	0			
Villages Elementary School of Lady Lake	6	695 Rolling Acres Road	Lady Lake	32159		G	246	0	0			
Windy Hill Middle School	1	3575 Hancock Road	Clermont	34711		G	59	0	0			
Windy Hill Middle School	2	3575 Hancock Road	Clermont	34711		G	18	0	0			
Windy Hill Middle School	3	3575 Hancock Road	Clermont	34711		G	44	0	0			
Windy Hill Middle School	4	3575 Hancock Road	Clermont	34711		G	156	0	0			
Windy Hill Middle School	5	3575 Hancock Road	Clermont	34711		G	282	0	0			
Windy Hill Middle School	6	3575 Hancock Road	Clermont	34711		G	78	0	0			
Windy Hill Middle School	7	3575 Hancock Road	Clermont	34711		G	82	0	0			
Windy Hill Middle School	8	3575 Hancock Road	Clermont	34711		G	190	0	0			
Windy Hill Middle School	99	3575 Hancock Road	Clermont	34711		G	78	0	0			
								0	0			
<b>TOTALS FOR LAKE COUNTY</b>							<b>34,777</b>	<b>26,696</b>	<b>545,421</b>	<b>0</b>	<b>18,827</b>	<b>0</b>

2008 Statewide Emergency Shelter Plan

LAKE												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/Deficit (ft2)	Result			
Storm Category 4/5	26,696	18,886	7,810	545,421			377,720	167,701				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Villages ES	2	695 Rolling Acres Road	Lady Lake	32159			P/A	No	102	6173	118	
Round Lake	6	31333 Round Lake Road	Mount Dora	32757			P	No	62	3732	92	
Leesburg ES	6	2229 South Street	Leesburg	34748			P	No	62	3732	92	
Umatilla ES	6	320 North Trowell Avenue	Umatilla	32784			P/A	No	62	3732	92	
Lost Lake Elementary School	1	1901 Johns Lake Road	Clermont	34711			P		34	2,040	34	
Year 2008	SpNS Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/Deficit (ft2)	Result			
Storm Category 4/5	322	1,100	-778	19,320			66,000	-46,680				

2008 Statewide Emergency Shelter Plan

LEE												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Alico Arena (Florida Gulf Coast Univ/Alva ES/MS)	GYM	ben c griffin parkway	Estero	33928	N	G	1,685	1,685	36,500		1,685	exiting storm shelter
		21290 Park Street	Alva	33920		G	283	0	0	283	283	
Bayshore Elementary School	Halls & Classrooms	17050 Williams Street	North Ft. Myers	33917	R	G	300	300	6,000		300	exiting storm shelter
Colonial Elementary School	4,6,7,9,12	3800 Schoolhouse Rd East	Ft. Myers	33916	R	G	1,545	1,545	30,900		1,545	exiting storm shelter
Diplomat Elementary School	4,6,7,8,9	1115 NE 16th Terrace	Cape Coral	33990	R	G	1,600	1,600	32,000		1,600	exiting storm shelter
Diplomat Middle School	cafeteria	1039 NE 16th Terrace	Cape Coral	33990	R	G	1,000	0	0	1,000	1,000	exiting storm shelter-PBSJ report no window protection?
Dunbar High	19,20 (gym)	3800 E. Edison Avenue	Ft. Myers	33903	N	G	800	800	16,000		800	exiting storm shelter
East lee HS	part of site	715 Thomas Sherwin	Lehigh	33971	N	G	2,500	2,000	40,000		2,000	open 8/07-
Estero Community Center	entire site	Corkscrew Palm Road	EStero	33928	N	G	2,500	2,500	50,000		2,500	NEW LATE 2006
Estero High School	Gym	21900 River Ranch Road	Estero	33928		G	500	0	0			HOST ONLY
Germain Arena	Arena 1	11000 Everglades Parkway	Estero	33928	R	G	6,500	6,500	135,000		6,500	exiting storm shelter
Gulf Coast Center	Non-Residence	5820 Buckingham Road	Ft. Myers	33905			238					clients capacity - host only
Gulf Coast Center	Residence Bldg	5820 Buckingham Road	Ft. Myers	33905			319					319 licensed clients capacity- host only-
Harns Marsh ES	entire site	15511 Homestaed RD	Lehigh	33971	N	G	1,200	1,200	24,000		1,200	New School 06 Construction EHPA
Heights Elementary School	cafeteria	15200 Alexandria COurt	Ft. Myers	33908		G	1,000	0	0	1,000		exiting storm shelter
Islands HS	entire site	Gator Rd	Cape Coral	33991	N	G	3,000	3,000	60,000		3,000	8/08 construction EHPA-exiting storm
J. Colin English ES	2story bldg	120 Pine Island Rd	N. Ft. Myers	33903	R	G	800	800	16,000		800	exiting storm shelter
Lee County Civic Center	Civic Center	11831 Bayshore Road	North Ft. Myers	33917		G	5,000	0	0	5,000		HOST ONLY
Lee Middle School	2,3,6,7,8,9	1333 Marsh Avenue	Ft. Myers	33905	R	G	620	620	12,400		620	exiting storm shelter
Lehigh Acres Middle School	Corridors	104 Arthur Avenue	Lehigh Acres	33936	R	G	710	710	32,172	0	710	
Lehigh Senior High School	Center bldg square	801 Gunnery Road North	Lehigh Acres	33971	R	G	380	380	32,172	0	380	
Littleton Elementary School	1,4,5,6,8 (Corridors)	700 Hutto Road	North Ft. Myers	33903		G	1,425	1,425	28,500		1,425	exiting storm shelter
Mariner High School	Auditorium	701 Chiquita Boulevard	Cape Coral	33909			345	0	0	345		exiting storm shelter- open span
Mariner Middle School	Entire school	425 Chiquita Blvd	Cape Coral	3909	N	G	800	800	16,000		800	
Mirror Lakes Elementary School	Corridors	525 Charwood Avenue	Lehigh	33936	N	G	1,000	1,000	20,000	0	1,000	exiting storm shelter
North Ft. Myers Academy of Arts	Entire School	1856 Arts Way	N. Ft. Myers	33907	R	G	2,500	0	0	3,563	2,500	exiting storm shelter-roof questions per report
Oak Hammock	Entire Site	5321 Tice Street	Tice	33904	N	G	1,200	1,200	24,000		1,200	8/08 construction EHPA-exiting storm?
Riverdale High School	Gym & Cafeteria	2600 Buckingham Road	Ft. Myers	33905		G	1,150	0	0		1,150	HOST ONLY
Skyline Elementary School	Screened and 2nd story	620 SW 19th Street	Cape Coral	33991	R	G	1,695	0	0	1,695		exiting storm shelter
South Ft. Myers HS - **Check Surge!	Entire	14021 Plantation Blvd	Ft. Myers	33916	N	G/A	3,000	3,000	60,000			exiting storm shelter
Sunshine Elementary	1	601 Sara Ave	Lehigh Acres	33971	R	P	200	0	0		200	exiting storm shelter
Tanglewood Elementary School	Corridors	1620 Manchester Blvd	Ft. Myers	33919	R	G	800	0	0	800		exiting storm shelter
Three Oaks Elementary School	Classrooms & Cafeteria	19600 Three Oaks Parkway	San Carlos Park	33912		G	1,715	0	0	1,715		exiting storm shelter
Three Oaks Middle School	Classrooms & Cafeteria	18500 Three Oaks Parkway	San Carlos Park	33912		G	1,440	0	0	1,440		exiting storm shelter
Tice Elementary School		4524 Tice Street	Ft. Myers	33905		G	100	0	0	100		exiting storm shelter
Varsity Lakes MS	1	801 North Gunnery Rd	Lehigh Acres	33971	N	G	192	3,838		1,000		2005 consturction EHPA
Varsity Lakes MS	2	801 North Gunnery Rd	Lehigh Acres	33971	N	G	509	10,172				2005 consturction EHPA
Varsity Lakes MS	3	801 North Gunnery Rd	Lehigh Acres	33971	N	G	1,416	28,311				2005 consturction EHPA
Varsity Lakes MS	4	801 North Gunnery Rd	Lehigh Acres	33971	N	G	450	9,007				2005 consturction EHPA
Veterens Park ES/MS	Gym & entire School	49 Homestead RD	Lehigh Acres	33971	N	G	2,500	2,500	50,000		2,500	2005 consturction EHPA
YCMA	Entire site	E. Terry Avenue	Bonita Springs	33913	N	G	300	300	6,000		300	2006 Construction EHPA
<b>TOTALS FOR LEE COUNTY</b>							<b>52,650</b>	<b>36,432</b>	<b>778,972</b>	<b>16,941</b>	<b>36,998</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	36,432	133,211	-96,779	778,972			2,664,220	-1,885,248				

Special Needs Storm Shelters

2008 Statewide Emergency Shelter Plan

LEE												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496 or not yet surveyed)	Local Planned Usage (reported capacity)	Comments
Caloosa MS	2nd floor	Del Prado Blvd	Cape Coral	33991	N	P	No		0	100	100	has pigtail for generator-Exiting Storm shelter only
East Lee HIS	Part of site	715 Thomas Sherwin	Lehigh	33971	N	P	Yes	500	30,000		500	EHPa
Edison Learning Cener	Learning Cent	Cortez Avenue	Ft Myers	33903	R	P	No	100	6,000		100	has pigtail for generator-Exiting Storm shelter only
First Presbyterian Church	Community R	9751 Bonita Beach Rd	Bonita Spgs	33908	R	P	No	50	3,000		50	has pigtail for generator-Exiting Storm shelter only
Ray Potorff Elementary School	Entire Site	4600 Challenger Blvd	Ft. Myers	33908	N	P	Yes	1,200	72,000		1,200	06 EHPA & capacity. Built to 150 mph winds, in cat 4/5 evac zone. Exiting storm only
Shady Rest Nursing Home	Entire Site	2310 Airport Rd	Ft Myers	33902	N	P	Yes		0	200	200	has pigtail for generator-no report on bldg available
South Ft Myers HS	Gym	715 Thomas Sherwin	Lehigh	33971	R	P	Yes	500	30,000		500	to open 8/07- exiting storm shelter only
Sunshine ES	Entire Site	601 Sara Avenue	Lehigh	33971	R	P	No	200	12,000		200	has pigtail for generator-Exiting Storm shelter only
VA Clinic	Round Center	3033 WinklerRd	Ft Myers	33901	R	P	No		0	45	45	has pigtail for generator-no report on bldg available
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	2,550	1,150	1,400	153,000			69,000	84,000				

**2008 Statewide Emergency Shelter Plan**

<b>LEON</b>												
<b>Name</b>	<b>Bldg. #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>	<b>Retrofitted (R) or New Construction (N)</b>	<b>General (G), PSN (P), Pet Friendly (A)</b>	<b>Host Capacity In People</b>	<b>Total Risk Capacity In People (Meets ARC 4496)</b>	<b>Total Risk Capacity (ft<sup>2</sup>) (Meets ARC 4496)</b>	<b>Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)</b>	<b>Local Planned Usage (reported capacity)</b>	<b>Comments</b>
Apalachee Elementary School		650 Trojan Trail	Tallahassee	32311		G	400	0	0			0
Astoria Park Elementary School		2465 Atlas Road	Tallahassee	32303		G	400	0	0			0
Belle Vue Middle School		2214 Belle Vue Way	Tallahassee	32303		G	300	0	0			0
Bethel AME Church		501 West Orange Avenue	Tallahassee	32312		G	200	0	0			0
Bond Elementary School		2204 Saxon Street	Tallahassee	32310		G	400	0	0			0
Bucklake Elementary School	1	1600 Pedrick Road	Tallahassee	32311	R	G	350	408	6,123	400	521	0
Bucklake Elementary School	2	1600 Pedrick Road	Tallahassee	32311	R	G		298	4,469		400	0
Bucklake Elementary School	5	1600 Pedrick Road	Tallahassee	32311	R	G		253	3,795		275	0
Bucklake Elementary School	6	1600 Pedrick Road	Tallahassee	32311	R	G		321	4,772		321	0
Bucklake Elementary School	7	1600 Pedrick Road	Tallahassee	32311	R	G		110	1,651		140	0
Bucklake Elementary School	3 & 4	1600 Pedrick Road	Tallahassee	32311	R	G		76	1,145		217	0
Canopy Oaks Elementary School	1	3250 Point View Drive	Tallahassee	32303	R	G	400	203	4,060	400	203	0
Canopy Oaks Elementary School	2	3250 Point View Drive	Tallahassee	32303	R	G		381	5,710		440	0
Canopy Oaks Elementary School	3	3250 Point View Drive	Tallahassee	32303	R	G		427	6,400		544	0
Canopy Oaks Elementary School	4	3250 Point View Drive	Tallahassee	32303	R	G		388	5,827		410	0
Canopy Oaks Elementary School	5	3250 Point View Drive	Tallahassee	32303	R	G		479	7,040		479	0
Canopy Oaks Elementary School	6	3250 Point View Drive	Tallahassee	32303	R	G		221	3,310		281	0
Carolyn Brevard Elementary School	10	2006 Jackson Bluff Road	Tallahassee	32304	R	G	400	57	853		73	0
Carolyn Brevard Elementary School	11	2006 Jackson Bluff Road	Tallahassee	32304	R	G		125	1,872		158	0
Carolyn Brevard Elementary School	12	2006 Jackson Bluff Road	Tallahassee	32304	R	G		113	1,675		113	0
Carolyn Brevard Elementary School	13	2006 Jackson Bluff Road	Tallahassee	32304	R	G		124	1,860		158	0
Carolyn Brevard Elementary School	14	2006 Jackson Bluff Road	Tallahassee	32304	R	G		46	690		58	0
Chaires Elementary School	1	4774 Chaires Crossroad	Tallahassee	32311	R	G	350	228	5,694	400	112	0
Chaires Elementary School	2	4774 Chaires Crossroad	Tallahassee	32311	R	G		253	3,796		323	0
Chaires Elementary School	5	4774 Chaires Crossroad	Tallahassee	32311	R	G		127	1,901		277	0
Chaires Elementary School	6	4774 Chaires Crossroad	Tallahassee	32311	R	G		323	4,935		323	0
Chaires Elementary School	7	4774 Chaires Crossroad	Tallahassee	32311	R	G		174	2,604		221	0
Chaires Elementary School	3&4	4774 Chaires Crossroad	Tallahassee	32311	R	G		128	1,914		166	0
Cobb Middle School		915 Hillcrest Avenue	Tallahassee	32308		G	400	0	0	400		0
Dearlake Middle School	2	9902 Deerlake Drive West	Tallahassee	32312	R	G	400	472	7,343	400	472	0
Dearlake Middle School	3	9902 Deerlake Drive West	Tallahassee	32312	R	G		472	7,449		472	0
Dearlake Middle School	4	9902 Deerlake Drive West	Tallahassee	32312	R	G		479	7,360		472	0
Dearlake Middle School	5	9902 Deerlake Drive West	Tallahassee	32312	R	G		78	1,167		154	0
Dearlake Middle School	7	9902 Deerlake Drive West	Tallahassee	32312	R	G		150	2,906		150	0
Desoto Trail Elementary School	1	2930 Velda Dairy Road	Tallahassee	32308	R	G	300	408	6,123	300	521	0
Desoto Trail Elementary School	2	2930 Velda Dairy Road	Tallahassee	32308	R	G		314	4,706		400	0
Desoto Trail Elementary School	4	2930 Velda Dairy Road	Tallahassee	32308	R	G		106	1,597		179	0
Desoto Trail Elementary School	5	2930 Velda Dairy Road	Tallahassee	32308	R	G		253	3,795		275	0
Desoto Trail Elementary School	6	2930 Velda Dairy Road	Tallahassee	32308	R	G		321	4,772		321	0
Desoto Trail Elementary School	7	2930 Velda Dairy Road	Tallahassee	32308	R	G		110	1,651		140	0
Everheart School		2750 Mission Road	Tallahassee	32303		G	100	0	0	100		0
Fairview Middle School		3415 Zillah Street	Tallahassee	32311		G	250	0	0	400		0
Faith Presbyterian Church		2200 North Meridian Road	Tallahassee	32303		G	120	0	0	120		0
FAMU 77 Engineering Bldg	77/ 1st floor				N	G		517	10,341			0
First Baptist Church		SR 363	Woodville	32362		G	70	0	0	100		0
First Church of the Nazarene		1983 Mahan Drive	Tallahassee	32308		G	100	0	0	100		0
Florida High		3000 School House Road	Tallahassee	32304			350	0	0			0
Forest Heights Baptist Church		1200 West Tharpe Street	Tallahassee	32303		G	125	0	0	125		0
Fort Braden Elementary School	1	15100 Blountstown Hwy	Tallahassee	32310	R	G	250	835	12,523	250	993	0
Fort Braden Elementary School	2	15100 Blountstown Hwy	Tallahassee	32310	R	G		394	6,290		394	0
Fort Braden Elementary School	3	15100 Blountstown Hwy	Tallahassee	32310	R	G		301	4,508		363	0
Fort Braden Elementary School	4	15100 Blountstown Hwy	Tallahassee	32310	R	G		151	2,268		193	0
FSU School	1	shumard oak blvd	Tallahassee	32311	R	G		233	4,660		233	0

**2008 Statewide Emergency Shelter Plan**

<b>LEON</b>												
FSU School	3	shumard oak blvd	Tallahassee	32311	R	G		743	14,860		743	
FSU School	4	shumard oak blvd	Tallahassee	32311	R	G		0	0		733	
FSU School	5	shumard oak blvd	Tallahassee	32311	R	G		367	7,340		367	
FSU School	6	shumard oak blvd	Tallahassee	32311	R	G		411	8,220		411	
FSU School	8	shumard oak blvd	Tallahassee	32311	R	G		0	0		643	
FSU School	9	shumard oak blvd	Tallahassee	32311	R	G		452	9,040		452	
Gilchrist Elementary School		695 Timberlane Road	Tallahassee	32312		G	225	0	0		0	
Godby High School		1717 West tharpe Street	Tallahassee	32303		G	400	0	0		0	
Griffin Middle School		800 Alabama Street	Tallahassee	32304		G	400	0	0		0	
Hartsfield Elementary School	9	1414 Chowkeebin Nene	Tallahassee	32301	R	G	400	78	1,176	400	100	
Hartsfield Elementary School	10	1414 Chowkeebin Nene	Tallahassee	32301	R	G		69	1,036		88	
Hartsfield Elementary School	11	1414 Chowkeebin Nene	Tallahassee	32301	R	G		47	706		136	
Hartsfield Elementary School	12	1414 Chowkeebin Nene	Tallahassee	32301	R	G		141	2,108		179	
Hartsfield Elementary School	16	1414 Chowkeebin Nene	Tallahassee	32301	R	G		93	1,395		112	
Hawks Rise ES	1	205 Meadow Ridge Dr	Tallahassee	32301	R	G		131	2,640		131	
Hawks Rise ES	2	205 Meadow Ridge Dr	Tallahassee	32301	R	G		384	5,755		404	
Hawks Rise ES	3	205 Meadow Ridge Dr	Tallahassee	32301	R	G		238	3,564		303	
Hawks Rise ES	4	205 Meadow Ridge Dr	Tallahassee	32301	R	G		182	2,727		249	
Hawks Rise ES	5	205 Meadow Ridge Dr	Tallahassee	32301	R	G		453	6,802		553	
Hawks Rise ES	6	205 Meadow Ridge Dr	Tallahassee	32301	R	G		348	5,224		444	
Lawton Chiles High School	1	7200 Thomasville Road	Tallahassee	32312	R	G		295	5,900		295	
Lawton Chiles High School	2	7200 Thomasville Road	Tallahassee	32312	R	G		789	12,591		792	
Lawton Chiles High School	7	7200 Thomasville Road	Tallahassee	32312	R	G		1,775	28,379		1,478	
Lawton Chiles High School	8	7200 Thomasville Road	Tallahassee	32312	R	G		1,061	17,508		958	
Oak Ridge Elem	2	4350 Shelfer Road	Tallahassee	32310	R	G	300	259	3,889	300	338	
Oak Ridge Elem	6	4350 Shelfer Road	Tallahassee	32310	R	G		254	3,815		292	
Pineview Elementary School		2230 Lake Bradford Road	Tallahassee	32310	R	G	400	0	0		0	
Raa Middle School		410 West Tharpe Street	Tallahassee	32303	R	G	400	0	0		0	
Rickards High School		3013 Jim Lee Road	Tallahassee	32301	R	G	400	0	0		0	
Riley Elementary School		1400 Indiana Street	Tallahassee	32304	R	G	350	0	0		0	
Roberts ES	1	5777 Centerville Rd	Tallahassee	32309	R	G		521	9,189		521	
Roberts ES	2	5777 Centerville Rd	Tallahassee	32309	R	G		608	9,124		674	
Roberts ES	3	5777 Centerville Rd	Tallahassee	32309	R	G		291	4,376		291	
Roberts ES	4	5777 Centerville Rd	Tallahassee	32309	R	G		295	4,428		553	
Springwood Elementary School	1	3801 Fred George Road	Tallahassee	32303	R	G	400	380	5,694	400	484	
Springwood Elementary School	2	3801 Fred George Road	Tallahassee	32303	R	G		265	3,976		322	
Springwood Elementary School	5	3801 Fred George Road	Tallahassee	32303	R	G		134	2,016		277	
Springwood Elementary School	6	3801 Fred George Road	Tallahassee	32303	R	G		322	4,792		322	
Springwood Elementary School	7	3801 Fred George Road	Tallahassee	32303	R	G		170	2,554		221	
								0	0		0	
<b>TOTALS FOR LEON COUNTY</b>							<b>11,355</b>	<b>22,413</b>	<b>362,379</b>	<b>4,595</b>	<b>25,811</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	22,413	9,156	13,257	362,379			183,120	179,259			

<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
FSU School	4	Shumard Oak Blvd	Tallahassee	32311	R	G	No	244	14,660		244	
FSU School	8	Shumard Oak Blvd	Tallahassee	32311	R	G	No	214	12,860		214	
Kate Sullivan ES							No		0	116		
FSU School	3	shumard oak blvd	Tallahassee	32311	R	G	No	247	14,860		?	

2008 Statewide Emergency Shelter Plan

LEON

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	705	175	530	42,300			10,500	31,800			

**2008 Statewide Emergency Shelter Plan**

<b>LEVY</b>												
Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Construc tion (N)	General (G), PSN (P), Pet -Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bronson ES	6	400 Ishie Ave	Bronson	32621	R	General/SN	622	0	0	1,623	622	Spns see below
Bronson ES	7	400 Ishie Ave	Bronson	32621	R	General/SN	580	0	0		580	Spns see below
Bronson ES		400 Ishie Ave	Bronson	32621		General	260	0	0	2,720		0
Bronson MS/HS	café	8691 NE 90th str	Bronson	32621	N	G		276	5,520			
Bullock ES	5	130 Southwest 3rd. Strre	Williston	32696	R	G	525	525	4,897		525	
Cedar Key School		951 Whiddon Avenue	Cedar Key	32625		General	38	0	0	0		0
Chiefland Elementary School	100	1205 NW 4th Avenue	Chiefland	32626		General/PSN	226	0	0	1,687	60	per state study
Chiefland Elementary School	200	1205 NW 4th Avenue	Chiefland	32626	R	General/PSN		478	7,186		666	per state study
Chiefland Elementary School	300	1205 NW 4th Avenue	Chiefland	32626	R	General/PSN		440	8,800		443	per state study
Chiefland Elementary School	400	1205 NW 4th Avenue	Chiefland	32626		General/PSN		0	0		43	per state study
Chiefland High School		808 N. Main Street	Chiefland	32626		General	411	0	0	2,201		0
Chiefland Middle School		118 NW 4th Drive	Chiefland	32626		General	276	0	0	944		0
Joyce Bullock Elementary School		130 Southwest 3rd. Strre	Williston	32696		General	177	0	0	1,853		0
Williston Elementary School		801 South Main Street	Williston	32696		General	307	0	0	2,271		0
Williston High School	6	427 West Noble Avenue	Williston	32696	R	General	488	292	4,374	3,738	488	0
Williston Middle School	12	20550 NE 3rd Avenue	Williston	32696	R	General		400	5,996		495	
Williston Middle School	10-health	20550 NE 3rd Avenue	Williston	32696	R	General	122	62	926	1,965	130	0
Yankeetown School		4500 Highway 40 West	Yankeetown	34498		General	229	0	0	0		
								0	0			
<b>TOTALS FOR LEVY COUNTY</b>							<b>4,261</b>	<b>2,473</b>	<b>37,699</b>	<b>19,002</b>	<b>4,052</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	2,473	2,270	203	37,699			45,400	-7,701				
<b>Special Needs Storm Shelters</b>												
<b>Name</b>	<b>Bldg #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>			<b>Emergency Powered HVAC?</b>	<b>SpNS Capacity (spaces @ 60sf) (meets ARC 4496)</b>	<b>SpNs Capacity (sf) (meets ARC 4496)</b>	<b>SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)</b>	<b>Local Planned Usage</b>	
Bronson ES	6	400 Ishie Ave	Bronson	32621			No	35	2125		35	
Bronson ES	7	400 Ishie Ave	Bronson	32621			No	101	6084		101	
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	136	155	-19	8,160			9,300	-1,140				



2008 Statewide Emergency Shelter Plan

**LIBERTY**

Name	Bldg. #	Address	City	Zip	Retrofit ted (R) or New Constr uction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bristol Pentecostal Holiness Church		Solomon Street	Bristol	32321			50	0	0	50		
Camp Woodmen		SR 12	Hosford	32324			100	0	0	100		
First Baptist Church		SR 20	Bristol	32321			100	0	0	100		
Hosford Elementary School		SR 65 South	Hosford	32334			135	0	0	270		
Liberty County High School		SR 20	Bristol	32321			325	0	0	0		
W R Toler Elementary School	4-Gym	SR 12	Bristol	32321	R	G		352	7,044		352	
W R Toler Elementary School	2	SR 12	Bristol	32321	N	G	350	548	8,011	400	548	per State study
W R Toler Elementary School	1	SR 12	Bristol	32321	R	G		185	4,441		185	per State study
W R Toler Elementary School	3	SR 12	Bristol	32321	R	G		65	1,625		63	per State study
<b>TOTALS FOR LIBERTY COUNTY</b>							<b>1,060</b>	<b>1,150</b>	<b>21,121</b>	<b>920</b>	<b>1,148</b>	<b>0</b>
<b>Year 2008</b>												
	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	1,150	702	448	21,121			14,040	7,081				
<b>Year 2008</b>												
<b>Name</b>	<b>Bldg #</b>	<b>Address</b>	<b>City</b>	<b>Zip</b>			<b>Emergency Powered HVAC?</b>	<b>SpNs Capacity (spaces @ 60sf) (meets ARC 4496)</b>	<b>SpNs Capacity (sf) (meets ARC 4496)</b>	<b>SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)</b>	<b>Local Planned Usage (reported capacity)</b>	
Uses Regional Shelter									0		0	
									0		0	
<b>Year 2008</b>												
	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	0	185	-185	0			11,100	-11,100				

2008 Statewide Emergency Shelter Plan

**MADISON**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (report capacity)	Comments
Greenville Elementary School		SR 150 S	Greenville	32331			175	0	0			
Lee Elementary School		731 US Hwy 90 E	Lee	32059			225	0	0			
Madison Central School	1	2093 W US Hwy 90	Madison	32340	R	G		110	1,652		518	04-SR-1J-03-50-03-202
Madison Central School	2	2093 W US Hwy 90	Madison	32340	R	G		169	2,541		721	04-SR-1J-03-50-03-202
Madison Central School	3	2093 W US Hwy 90	Madison	32340	R	G		255	3,824		490	04-SR-1J-03-50-03-202
Madison Central School	4	2093 W US Hwy 90	Madison	32340	R	G		134	2,014		265	04-SR-1J-03-50-03-202
Madison Central School	5	2093 W US Hwy 90	Madison	32340	R	G		511	7,661		833	04-SR-1J-03-50-03-202
Madison Central School	6	2093 W US Hwy 90	Madison	32340	R	G		516	7,740		768	04-SR-1J-03-50-03-202
Madison Central School	7	2093 W US Hwy 90	Madison	32340	R	G		429	6,435		728	04-SR-1J-03-50-03-202
Madison Central School	8	2093 W US Hwy 90	Madison	32340	R	G		546	8,196		796	04-SR-1J-03-50-03-202
Madison Central School	9	2093 W US Hwy 90	Madison	32340	R	G		483	7,238		659	04-SR-1J-03-50-03-202
Madison Central School	10	2093 W US Hwy 90	Madison	32340	R	G		611	9,162		802	04-SR-1J-03-50-03-202
Madison Central School	11	2093 W US Hwy 90	Madison	32340	R	G		247	3,711		518	04-SR-1J-03-50-03-202
Madison Central School		2093 US Hwy 90 W	Madison	32340			275	0	0			
Madison County High School		US Highway 90 East	Madison	32340			350	0	0	350		0
Madison county Memorial Hospital		201 E Marion St	Madison	32340			30	0	0			
Mormon Church, Madison		US Highway 90 East	Madison	32340			70	0	0	70		0
New Testament Christian Center		us Highway 90 East	Madison	32340			100	0	0	100		0
Pinetta Jr. High School		135 NE Empress Tree D	Pinetta	32350			190	0	0	190		0
Town of Lee-Publ. Saf/Emerg Shel	Fire		Lee	32059	N	G		300	4,632		300	01CP-04-03-50-02-217
<b>TOTALS FOR MADISON COUNTY</b>							<b>1,415</b>	<b>4,311</b>	<b>64,806</b>	<b>710</b>	<b>7,398</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/Deficit In People	Shelter Capacity (ft <sup>2</sup> )	Emergency Powered HVAC?	Shelter Demand (ft <sup>2</sup> )	Surplus/Deficit (ft <sup>2</sup> )	Result
Storm Category 4/5	4,311	1,735	2,576	64,806		34,700	30,106	

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip	Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (report capacity)	Comments
Madison Central		2093 W US Hwy 90	Madison	32340	No	28	1,680		28	
							0			

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/Deficit In Spaces	SpNs Shelter Capacity (ft <sup>2</sup> )	Shelter Demand (ft <sup>2</sup> )	Surplus/Deficit (ft <sup>2</sup> )	Result
Storm Category 4/5	28	30	-2	1,680	1,800	-120	

2008 Statewide Emergency Shelter Plan

MANATEE												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Ana Maria Elementary	1	4700 Gulf Drive North	Holmes Beach	34217	N	0	TBD	0	0			Exempted, in Category A Zone.
Annie Lucy Williams Elementary	1	3404 Fort Hamer Road	Parrish	34219	N	G	725	1,450	29,000		1,450	
Bashaw Elementary School	2	3515 Morgan Johnson Rd	Bradenton	34208	R	G	250	432	6,487		500	
Bashaw Elementary School	3	3515 Morgan Johnson Rd	Bradenton	34208	R	G	250	434	6,514		500	
Bashaw Elementary School	4	3515 Morgan Johnson Rd	Bradenton	34208	R	G	230	340	5,099		460	
Bashaw Elementary School	5	3515 Morgan Johnson Rd	Bradenton	34208	R	G	232	460	7,498		460	
Bayshore Elementary School	1	6120 26th Street West	Bradenton	34207	N	G	882	0	0		1,764	
Braden River Elementary School	1	6215 River Club Boulevard	Bradenton	34208	R	G		231	7,237		420	sf per report
Braden River Elementary School	2	6215 River Club Boulevard	Bradenton	34208	R	G	253	436	6,539		507	
Braden River Elementary School	3	6215 River Club Boulevard	Bradenton	34208	R	G	250	436	6,534		501	
Braden River Elementary School	4	6215 River Club Boulevard	Bradenton	34208	R	G	230	361	5,419		460	
Braden River Elementary School	5	6215 River Club Boulevard	Bradenton	34208	R	G	232	465	7,573		465	
Braden River High School	6	6545 SR 70 East	Bradenton	34202	N	G	359	648	12,959		718	
Braden River High School	7	6545 SR 70 East	Bradenton	34202	N	G	857	1,437	28,739		1,714	
Braden River High School	8	6545 SR 70 East	Bradenton	34202	N	G	469	629	12,580		937	
Braden River Middle School	2	6215 River Club Boulevard	Bradenton	34202	R	G	223	447	9,262		447	
Braden River Middle School	5	6215 River Club Boulevard	Bradenton	34202	R	G	91	183	2,714	211	183	
Braden River Middle School	6	6215 River Club Boulevard	Bradenton	34202	R	G	277	354	6,390		354	
Buffalo CreelMS	1	7320 69th	Palmetto	34220	N	G	886	1,772	35,440			
Carlos Haile Middle School	5	9501 State Road 64th East	Bradenton	34202	R	G	294	588	11,304		588	
Carlos Haile Middle School	3A	9501 State Road 64th East	Bradenton	34202	R	G	143	297	16,354		297	
Carlos Haile Middle School	4A	9501 State Road 64th East	Bradenton	34202	R	G	373	747	11,971		747	
Freedom Elementary	1	9515 State Road 64th East	Bradenton	34202	N	G	1246	1,764	38,175		1,764	
Gullett ES	1	12125 44th	Bradenton	34202	N	G	748	1,496	29,920			
King Middle School	1	700 75th Street NW	Bradenton	34209	N	0	TBD	0	0	0		Exempted, In Catatgory B Evacuation Zone
Kinnan Elementary School	3	3415 Tallevast Road	Sarasota	34243	R	G	265	635	15,881		530	
Kinnan Elementary School	4	3415 Tallevast Road	Sarasota	34243	R	G	253	436	10,907		145	
Lee Middle School	A	4000 53rd Avenue West	Bradenton	34210	R	G	163	326	7,849		326	
Lee Middle School	B	4000 53rd Avenue West	Bradenton	34210	R	G	163	326	7,132		326	
Lee Middle School	C	4000 53rd Avenue West	Bradenton	34210	R	G	163	326	7,790		326	
Lincoln Middle School	A	305 17th Street East	Palmetto	34221	R	G	163	326	6,787		326	
Lincoln Middle School	B	305 17th Street East	Palmetto	34221	R	G	163	326	7,170		326	
Lincoln Middle School	C	305 17th Street East	Palmetto	34221	R	G	163	326	7,772		326	
Louise Johnson Middle School	3	2121 26th Avenue East	Bradenton	34208	R	G	99	431	10,781		198	not done?
Louise Johnson Middle School	5	2121 26th Avenue East	Bradenton	34208	R	G	99	198	2,947		198	
Manatee Community College		5840 26th Street West	Bradenton	34210			173	0	0	173		
Manatee High School	2	1000 32nd Street West	Bradenton	34205	R	G	646	1,293	23,284		1,293	
Manatee High School	3	1000 32nd Street West	Bradenton	34205	R	G	280	528	7,922		560	
Manatee Technical Institute Medical Complex	1	5520 Lakewood Ranch	Bradenton	34202	N	P		0	0			
McNeil Elementary	1	6325 Lorraine Road	Bradenton	34202	N	G	883	1,766	38,475		1,766	
Miller ES	1	4201 Manatee	Bradenton	34209	N	G	2237	2,237	44,470			
Mills Elementary School	1	7200 69th Street East	Palmetto	34221	N	G	742	1,645	41,128		1,484	
Myakka Elementary School	3	37205 Manatee Avenue	Myakka City	34251	R	G	145	225	3,368		290	
Myakka Elementary School	4	37205 Manatee Avenue	Myakka City	34251	R	G	77	134	2,014		155	
Myakka Elementary School	6	37205 Manatee Avenue	Myakka City	34251	R	G	146	268	4,021		293	
Myakka Elementary School	7	37205 Manatee Avenue	Myakka City	34251	R	G	63	98	1,463		127	
Nolan Middle School	1	6615 Greenbrook Boulevard	Bradenton	34202	N	G	856	3,377	67,545		3,377	
Oneco Elementary School	1	2000 53rd Avenue East	Bradenton	34203	R	G		0	0			
Oneco Elementary School	4	2000 53rd Avenue East	Bradenton	34203	R	G	151	564	14,102		303	
Oneco Elementary School	6	2000 53rd Avenue East	Bradenton	34203	R	G	148	484	12,088		297	
Palmetto Elementary School	4	634 7th Street West	Palmetto	34221	R	G		0	0			not shelter
Palmetto Elementary School	5	634 7th Street West	Palmetto	34221	R	G		0	0			not shelter
Palmetto Elementary School	6	634 7th Street West	Palmetto	34221	R	G		0	0			not shelter
Prine Elementary School	1	3801 Southern Paerkyway	Bradenton	34205	N	G	882	2,054	41,088		2054	
Rowlett Elementary School	1	3500 9th Street East	Bradenton	34208	N	G	148	0	0			not done?
Rowlett Elementary School	3	3500 9th Street East	Bradenton	34208	N	G	265	620	15,505		530	
Rowlett Elementary School	4	3500 9th Street East	Bradenton	34208	R	G	72	0	0		0	
Seabreeze Elementary School	1	3601 71st Street West	Bradenton	34209	R	G		0	7,091		0	
Seabreeze Elementary School	2	3601 71st Street West	Bradenton	34209	R	G	260	445	6,674		520	
Seabreeze Elementary School	3	3601 71st Street West	Bradenton	34209	R	G	261	433	6,497		521	
Seabreeze Elementary School	4	3601 71st Street West	Bradenton	34209	R	G	230	335	5,021		460	
Seabreeze Elementary School	5	3601 71st Street West	Bradenton	34209	R	G	232	465	7,566		465	
Tillman Elementary School	3	1415 29th Street East	Palmetto	34221	R	G	72	530	12,167		530	
Tillman Elementary School	4	1415 29th Street East	Palmetto	34221	R	G	72	415	10,368		145	

2008 Statewide Emergency Shelter Plan

MANATEE													
Willis Elementary School	1	Lorraine Road	Bradenton	34202	N	G	882	1,764	44,050		1,764		
Witt Elementary School	3	200 Rye Road	Bradenton	34202	R	G	260	441	6,618		520		
Witt Elementary School	4	200 Rye Road	Bradenton	34202	R	G	209	418	7,771		418		
Witt Elementary School	5	200 Rye Road	Bradenton	34202	R	G	197	303	4,545		394		
TOTALS FOR MANATEE COUNTY								21,783	39,905	823,565	384	36,529	0
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result				
Storm Category 4/5	39,905	36,994	2,911	823,565			739,880	83,685					
Special Needs Storm Shelters													
Name	Bldg #	Address	City	Zip			Emergnecy Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments	
Manatee Tech Inst	1	5520 Lakewood Ranch	Bradenton	34202	N	P	Yes	193	11,620		193		
Braden River High School	6	6545 SR 70 East	Bradenton	34202	N		No						
Braden River High School	7	6545 SR 70 East	Bradenton	34202	N		No						
Braden River High School	8	6545 SR 70 East	Bradenton	34202	N		No						
Nolan MS	1	6615 Greenbrook Boulevard	Bradenton	34202	N	P	Yes	571	34,200		571		
									0				
									0				
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result				
Storm Category 4/5	764	1,325	-561	45,840			79,500	-33,660					

2008 Statewide Emergency Shelter Plan

MARION

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Anthony Elementary School		9501 NE Jacksonville Road	Anthony	32617			400	0	0			
Belleview Elementary School		5556 SE Agnew Road	Belleview	34420			300	0	0			
Belleview High School, Bldg 7	7-gym	10400 SE 36th Avenue	Belleview	34420		P	197	0	0			
Belleview High School, Bldg 10	10	10400 SE 36th Avenue	Belleview	34420	R/N	P	259	0	0		111	change to SpNS
Belleview High School, Bldg 3	3	10400 SE 36th Avenue	Belleview	34420	R/N	P	138	0	14,884	0	32	changed to media center
Belleview High School, Bldg 4	4	10400 SE 36th Avenue	Belleview	34420	R/N	P	218	0	14,213	0	128	changed
Belleview High School, Bldg 5	5	10400 SE 36th Avenue	Belleview	34420	R/N	P	145	0	0		46	change to SpNS
Belleview Middle School	2	10500 SE 36th Avenue	Belleview	34420	R	G		473	11,369		473	
Belleview Middle School	3	10500 SE 36th Avenue	Belleview	34420	R	G		430	11,206		430	
Belleview Middle School	4	10500 SE 36th Avenue	Belleview	34420	R	G		534	11,899		534	
Belleview Middle School	gym	10500 SE 36th Avenue	Belleview	34420		P	2,158	0	0		1,529	
Belleview-Santos Elementary School		9600 South US Hwy 441	Belleview	33420			400	0	0			
Center of Hope		320 NW 1st Avenue	Ocala	34470			100	0	0			
Central Florida Community College		3001 SW College Road	Ocala	34474			400	0	0			
College Park Elementary School		1330 SW 33rd Avenue	Ocala	34474			400	0	0			
Community Education Center		1014 SW 7th Road	Ocala	34470			300	0	0			
Dr. N.H. Jones Elementary School		1900 SW 5th Street	Ocala	34474			245	0	0			
Dunnellon ES		10235 SW 180th Avenue	Dunnellon	34432		G	400	0	0			
Dunnellon High School	23	10055 SW 180th Ave Rd	Dunnellon	34432		g	0	251	6,125		251	
Dunnellon High School	24	10055 SW 180th Ave Rd	Dunnellon	34432		g	747	334	6,363		334	
Dunnellon Middle School		21005 Chestnut Street	Dunnellon	34432			309	0	0	309		
East Marion Elementary School		14550 NE 14th St Rd	Silver Springs	34488			230	0	0			
Eighth Street Elementary School		513 SE 8th Street	Ocala	34470			300	0	0			
Emerald Shores Elementary School		404 Emerald Road	Ocala	34472			400	0	0			
Evergreen Elementary School		4000 NE W Anthony Road	Ocala	34471			400	0	0			
Fessenden Elementary School		4200 NW 90th Street	Ocala	34470			450	0	0			
First Baptist Church of Belleview		6107 SE Agnew Road	Belleview	34420			180	0	0			
Forest High School --Gym	4	5000 SE Maricamp	Ocala	34480	N	G		1,047	20,949		638	
Forest High School -- Music & Band Room	3	5000 SE Maricamp	Ocala	34480	N	G		554	11,079		87	
Forest High School --Cafeteria	2	5000 SE Maricamp	Ocala	34480	N	G		449	8,972			
Forest High School- Classrooms	11	5000 SE Maricamp	Ocala	34480				0	0			
Fort King Middle School		545 NE 17th Avenue	Ocala	34470			500	0	0			
Fort McCoy Elementary/Middle School		16160 N Highway 315	Fort McCoy	32134			1,265	0	0	765	765	
Fort McCoy School	4	16160 N Highway 315	Fort McCoy	32134	R	G		214	4,592		214	
Fort McCoy School	5	16160 N Highway 315	Fort McCoy	32134	R	G		155	3,873		123	
Fort McCoy School	6	16160 N Highway 315	Fort McCoy	32134	R	G		214	4,592		214	
Fot McCoy School	8	16160 N Highway 315	Fort McCoy	32134	R	G		214	4,592		214	
Greenway Elementary School		207 Midway Road	Ocala	34472			400	0	0			
Hammett Bowen ES		4397 SW 95th Street	Ocala	34476	N	G	1,600	1,361	27,220		1,361	
Harbour View Elementary School		8445 SE 147th Street	Summerfield	34491			400	0	0			
Hillcrest School		3143 SE 17th Street	Ocala	34470			350	0	0			
Horizon Academy (4-8 Mid school)	new	365 Marion Oaks Drive	Ocala	34473	N	G		923	18,442	18,442	923	online 2007-2008
Howard Middle School		1108 NW Martin Luther King	Ocala	34470			850	0	0			
Lake Weir High School	bld 1	10351 SE Maricamp Road	Ocala	34472	R	G	1,582	1,102	27,844		1,102	per schoolboard
Lake Weir HS (renovation)	35(café)	10351 SE Maricamp Road	Ocala	34472	R	G		555	11,108	6,000	555	per schoolboard
Lake Weir Middle School		10220 SE Sunset Harbor	Summerfield	34491			812	0	0			
Liberty MS (Middle School CC)	new	4773 SW 95th Street	Ocala	34476	N	G		923	18,442	18,442	923	online 2007-2008

**2008 Statewide Emergency Shelter Plan**

**MARION**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Madison Street Elementary School	1	1239 NW 4th Street	Ocala	34470	N	G/P	350	0	0		237	
Maplewood Elementary School		4751 SE 24th Street	Ocala	34470			400	0	0	100		
Maplewood Elementary School		4751 SE 24th Street	Ocala	34470			0	0	0	350		
Marion Institute of Technology (Old Forest HS)		1614 SE Fort King Street	Ocala	34470			1,000	0	0			
North Marion High School		151 W Highway 329	Citra	32113			2,496	0	0			
North Marion Middle School		2085 NW 28th Street	Ocala	32113			500	0	0			
Oakcrest Baptist Church		1109 NE 28th Street	Ocala	34470			280	0	0			
Oakcrest Elementary School		1112 NE 28th Street	Ocala	34470			400	0	0			
Ocala City Auditorium		836 NE Sanchez Avenue	Ocala	34470			200	0	0			
Ocala Springs Elementary School		5757 NE 40th Ave Rd	Ocala	34470			400	0	0			
Osceola Middle School		526 SE Tuscaquilla Avenue	Ocala	34471			400	0	0			
Phoenix Center		2091 NE 35th Street	Ocala	34470			774	0	0			
Queen of Peace Catholic Church		6455 SW SR 200	Ocala	33474			300	0	0			
Reddick Collier Elementary School		4595 W Highway 316	Reddick	32686			400	0	0			
Romeo Elementary School		19550 SW 36th Street	Dunnellon	34432			400	0	0			
Saddlewood Elementary School, Bldg	1	3700 SW 43rd Court	Ocala	34473	N	G	200	50	2,028		100	
Saddlewood Elementary School, Bldg	4	3700 SW 43rd Court	Ocala	34473	N	G	200	219	4,592		342	
Saddlewood Elementary School, Bldg	6	3700 SW 43rd Court	Ocala	34473	N	P	200	0	3,760		100	changed to media center
Shady Hill Elementary School		5959 S Magnolia Avenue	Ocala	34470			400	0	0			
South Ocala Elementary School		2831 SE Lake Weir Avenue	Ocala	34470			500	0	0			
Sparr Elementary School		2525 E Highway 329	Ocala	32192			400	0	0			
St. Jude Catholic Community Church		443 Marion Oaks Drive	Ocala	34474			70	0	0			
Stanton-Weirsdale Elementary School		16700 SE 134th Terrace	Weirsdale	32195			400	0	0			
Sunrise Elementary School		375 Marion Oaks Course	Ocala	34473			400	0	0			
Vanguard High School	1	7 NW 28th Street	Ocala	34470	R	G	1,524	1,044	20,880		1,044	per schoolboard
Vanguard HS (new)	22	7 NW 28th Street	Ocala	34470	N	G		466	9,333		466	per schoolboard
Vanguard HS (new)	23	7 NW 28th Street	Ocala	34470	N	G		466	9,333		466	per schoolboard
Vanguard HS (New)	24	7 NW 28th Street	Ocala	34470	N	G		510	10,190		510	per schoolboard
Ward-Highlands Elementary School		537 SE 36th Street	Ocala	34471			400	0	0			
Westport MS/HS	1	3733 SW 80th Avenue	Ocala	34482	N	G	1200	563	11,261		450	
Wyomina Park Elementary School		511 NE 12th Avenue	Ocala	34470			350	0	0			
								0	0			
<b>TOTALS FOR MARION COUNTY</b>							<b>31,379</b>	<b>13,051</b>	<b>309,141</b>	<b>44,408</b>	<b>14,702</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	13,051	24,011	-10,960	309,141			480,220	-171,079				

Special Needs Storm Shelters

2008 Statewide Emergency Shelter Plan

**MARION**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Madison Street ES	1	1239 NW 4th Street	Ocala	34470			No			126	126	shuttered?
Westport MS (Gym)	1	3733 SW 80th Avenue	Ocala	34482			Yes	122	7,320		122	
Bellview HS	5	10400 SE 36th Avenue	Bellevue	34420			Yes	162	9,750		162	
Bellview HS	10	10400 SE 36th Avenue	Bellevue	34420			Yes	243	14,603		243	
Bellview HS	4	10400 SE 36th Avenue	Bellevue	34420				236	14,213			
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	763	1,000	-237	45,780			60,000	-14,220				

**2008 Statewide Emergency Shelter Plan**

<b>MARTIN</b>												
Name	Bldg. #	Address	City	Zip	Retrofit ted (R) or New Constr uction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bessey Creek Elementary School		2201 SW Matheson Ave	Palm City	34990	R	G	1,000	850	17,000		850	
Challenger School	2	5200 SE Willoughby Blvd	Stuart	34987	R	P		0	0			SpNS
Challenger School	4	5200 SE Willoughby Blvd	Stuart	34987	R	P		0	0			SpNS
Challenger School	5	5200 SE Willoughby Blvd	Stuart	34987	R	P		0	0			SpNS
Challenger School	6	5200 SE Willoughby Blvd	Stuart	34987	R	P		0	0			SpNS
Challenger School	7	5200 SE Willoughby Blvd	Stuart	34987	R	P		0	0			SpNS
Crystal Lake Elementary School		2095 SW 96th Street	Stuart	34997	R	G	1,000	849	16,980		849	
Felix Williams School		401 NW Baker Street	Stuart	34994			1,000	0	0			
Hidden Oaks Middle School	2	2801 SW Martin Highway	Palm City	34990	R	G	1,100	1,036	20,720		663	per PBSJ report
Hidden Oaks Middle School	3	2801 SW Martin Highway	Palm City	34990	R	G		1,000	20,000			per PBSJ report
Hidden Oaks Middle School	4&5	2801 SW Martin Highway	Palm City	34990	R	G		782	15,640			per PBSJ report
Hidden Oaks Middle School	6	2801 SW Martin Highway	Palm City	34990	R	G		421	8,420			per PBSJ report
Hidden Oaks Middle School	7	2801 SW Martin Highway	Palm City	34990	R	G		963	19,260			per PBSJ report
Hidden Oaks Middle School	8	2801 SW Martin Highway	Palm City	34990	R	G		597	11,940			per PBSJ report
Indiantown Middle School	2	16303 SW Farm Road	Indiantown	34956	N	G	1,500	538	8,583			
JD Parker ES	entrie	1050 East 10th St	Stuart	34996	N	SN (P), P	700	1,940	48,510		1,300	
Jensen Beach Elementary School		2525 NE Savanna Road	Jensen Beach	34857	R	G	1,500	1,450	29,000		1,450	
Jensen Beach HS	4	2875 Goldenrod Rd	Jensen Beach	34957	N	G	3000	1,988	62,054		1,988	AS-IS
Jensen Beach HS	3&5	2875 Goldenrod Rd	Jensen Beach	34957	N	G	2,000	1,562	34,573		1,562	
Morgade Library..	Comm. Rm	5851 SE Comm. Dr	Stuart	34997	N	G		115	2,300		115	
Palm City Elementary School		1951 SW 34th Street	Palm City	34990			825	0	0			not available in 2004
Pinewood ES	2	5200 SE Willoughby Blvd	Stuart	34997				190	3,799			need to confirm ASCE-7
Pinewood ES	3	5200 SE Willoughby Blvd	Stuart	34997				193	3,865			need to confirm ASCE-7
Pinewood ES	4	5200 SE Willoughby Blvd	Stuart	34997				342	6,830			need to confirm ASCE-7
Pinewood ES	7	5200 SE Willoughby Blvd	Stuart	34997				248	4,950			need to confirm ASCE-7
Pinewood ES	8	5200 SE Willoughby Blvd	Stuart	34997				123	2,463			need to confirm ASCE-7
Pinewood ES	9	5200 SE Willoughby Blvd	Stuart	34997				239	4,783			need to confirm ASCE-7
Pt. Salerno ES	1	4890 SE Jack Ave	Stuart	34997	N	G	700	451	9,023		1,300	per PBSJ report
Pt. Salerno ES	2	4890 SE Jack Ave	Stuart	34997	N	G		1,229	24,579			per PBSJ report
Seawind Elementary School		3700 SE Seabranh Blvd	Stuart	33455	R	G	1,000	875	15,998		875	
South Fork		10205 SW Pratt & Whitt	Stuart	34997			1,200	0	0			not a hurricane shelter
Warfield Elementary School	21	15261 SW 50th Street	Indiantown	34956	N	G	1000	860	10,682		860	
<b>TOTALS FOR MARTIN COUNTY</b>							<b>17,525</b>	<b>18,841</b>	<b>401,952</b>	<b>0</b>	<b>12,350</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	18,841	8,933	9,908	401,952			178,660	223,292				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage	Comments
Challenger School ES	2,	5200 SE Willoughby Blvd	Stuart	34987			No	29	1,750		29	
Challenger School	4	5200 SE Willoughby Blvd	Stuart	34987			No	24	1,432		24	
Challenger School	5	5200 SE Willoughby Blvd	Stuart	34987			No	23	1,400		23	
Challenger School	6	5200 SE Willoughby Blvd	Stuart	34987			No	67	4,015		67	
Challenger School	7	5200 SE Willoughby Blvd	Stuart	34987			No	38	2,250		38	
David L. Anderson MS (online 2006)	Cafet.	7000 Sw Atlantic Ridge	Stuart	34997			No	111	6680			per ehpa list
David L. Anderson MS (online 2006)	5- Gym	7000 Sw Atlantic Ridge	Stuart	34997			No	163	9829			per ehpa list



2008 Statewide Emergency Shelter Plan

MARTIN									
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	455	400	55	27,300			24,000	3,300	

2008 Statewide Emergency Shelter Plan

MIAMI-DADE												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
American Senior High	1	12850 NW 67th Avenue	Miami	33015	R	G	500	2,558.00	51,160		2,558	
Arvida Middle		10900 SW 127th Avenue	Miami	33186				700.00	14,000		700	
Ashe, Bowman Elementary School		6601 SW 152nd Avenue	Miami	33193		G		1,386.00	27,720		1,386	
Bent Tree Elementary School		4861 SW 140th Avenue	Miami	33175		G		474.00	9,480		474	
Brentwood Elementary School	4	3131 NW 191st Street	Miami	33056		G		865.00	17,300		865	
Bright, James Elementary School		2530 W 10th Avenue	Hialeah	33010		G		1,208.00	24,160		1,208	
Calusa Elementary		9580 W Calusa Club Drive	Miami	33186		G		900.00	18,000		900	
Chiles, Lawton Middle School	2	8190 NW 197 Street	Miami	33015	N	G		1,886.00	37,719		1,436	per PBSJ report
Chiles, Lawton Middle School	3	8190 NW 197 Street	Miami	33015	N	G		746.00	14,919			per PBSJ report
Chiles, Lawton Middle School	4	8190 NW 197 Street	Miami	33015	N	G		368.00	7,355			per PBSJ report
Citrus Grove Middle School	1	21153 NW 3rd Street	Miami	33125	R	G		1,700.00	34,000		1,700	1700- 34000
Coral Gables SHS	15 (3story)	450 Bird Road	Coral Gables	33146	R	G	500	947.00	18,943			per PBSJ report
Doral Middle School		5005 NW 112 Avenue	Miami	33178		N	G	1,360.00	27,200		1,360	
Douglas, Marjorie Elementary School		11901 SW 2nd Street	Miami	33184		G		1,569.00	31,380		1,569	
Drew, Charles Middle School		1801 NW 60th Street	Miami	33142		G		1,050.00	21,000		1,050	
Dunbar Elementary School		505 NW 20th Street	Miami	33127		G		786.00	15,720		786	
Fascell, Dante Elementary School		15625 SW 80th Street	Miami	33193		G		931.00	18,620		931	
Ferguson, John Senior High		15900 SW 56 Street	Miami	33185	N	G		1,231.00	24,620		1,231	EHPA
Finlay, Carlos Elementary	1	851 SW 117 Avenue	Miami	33174		G		284.00	5,682			per PBSJ report
Finlay, Carlos Elementary	3	851 SW 117 Avenue	Miami	33174		G		313.00	6,250			per PBSJ report
Finlay, Carlos Elementary	4	851 SW 117 Avenue	Miami	33174		G		715.00	14,296			per PBSJ report
Finlay, Carlos Elementary		851 SW 117 Avenue	Miami	33174		G		0.00	0		1,407	
Florida Int University (Univ Park Campus)	Dorms	11200 SW 8th Street	Miami	33165		G	700	0.00	0		0	For FIU students only
Goleman High School	8&9	14100 NW 89th Avenue	Miami	33016			500	1,248.00	24,960		1,248	
Goleman Senior High	1 & 4	14100 NW 89th Avenue	Miami	33016	R	G		800.00	16,000		800	
Goleman Senior High	12	14100 NW 89th Avenue	Miami	33016	R	G		0.00	6,642			
Greynolds Park Primary Learning Center		1575 NE 177 Street	N Miami Beach	33162		G		517.00	10,340		517	
Hall, Joe Elementary School		1901 SW 134th Avenue	Miami	33175		G		914	18,280		914	
Hammocks Middle School		9889 Hammocks Blvd	Miami	33196		G		1,467	29,340		1,467	
Hartner Elementary School		401 NW 29th Street	Miami	33127		G		1,306	26,120		1,306	
Hialeah Senior		251 East 49 Street	Hialeah	33013	N	G	500	1,352	27,040		1,352	EHPA
Hialeah-Miami Lakes High School		7977 W 12th Avenue	Hialeah	33014		G	500	1,264	25,280		1,264	
Highland Oaks Middle School		2375 NE 203rd Street	N Miami Beach	33180		A		0	0		?	
Hoover, Oliver Elementary		9050 Hammocks Blvd	Miami	33196		G		1,273	25,460		1,273	
Jorge Mas Canosa Middle	2, 3	15735 SW 144 Street	Miami	33196	N	G		2,126	42,539		2,000	EHPA
Krop, Michael Senior High School		1410 NE County Line Road	N Miami Beach	33179		G	500	3,383	67,660		3,383	
Lake Stevens Elementary School		5101 NW 183rd Avenue	Miami	33055		G		1,018	20,360		1,018	
Lorah Park Elementary School		5160 NW 31st Avenue	Miami	33142		G		840	16,800		840	
Miami Carol City High School	1	3422 NW 187th Street	Miami	33056	R	G	500	500	10,000		500	
Miami Coral Park High School	1	8865 SW 16th Street	Miami	33165	R	G	500	1,125	22,500		1,125	
Miami Coral Park Senior	4	8865 SW 16 Street	Miami	33165	N	G		2,044	40,872			EHPA
Miami -Dade Homeless Assistance center					R	G		1,000	20,000		1,000	
Miami Killian High School		10655 SW 97th Avenue	Miami	33176		G	500	420	8,400		420	
Miami Northwestern High School	1	7007 NW 13th Avenue	Miami	33150	R	G	500	2,420	48,400		2,420	
Miami Palmetto Senior High		7460 SW 118th Street	Miami	33156		G	500	2,313	46,260		2,313	
Miami Shores Elementary School		10351 NE 5th Avenue	Miami	33138		G		287	5,740		287	
Miami Southridge Senior High	1	19355 SW 114th Street	Miami	33157	R	G	500	1,082	21,640		1,082	
Miami Springs High	1	751 Dove Avenue	Miami Springs	33166	R	G	500	3,000	60,000		3,000	
Miami Sunset High	1 & 4	13125 SW 72nd Street	Miami	33183	R	G	500	2,440	46,000		2,440	

2008 Statewide Emergency Shelter Plan

MIAMI-DADE												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Morgan, Robert Senior High		18180 SW 122 Avenue	Miami	33177	N	G	500	1,000	20,000		1,000	
North Miami Beach High School		1247 NE 167th Street	N Miami Beach	33162	R	G	500	1,480	29,590		3,152	REST Spns below??
North Miami High School		800 NE 137th Street	N Miami Beach	33161	R	G	500	2,313	46,260		2,313	
North Miami Middle School	1	13105 NE 7th Avenue	N Miami Beach	33161	R	G		450	9,000		450	
Norwood Elementary School		19810 NW 14th Court	Miami	33169	R	G		1,027	20,540		1,027	
Olinda Elementary School		5536 NW 21st Avenue	Miami	33142	R	G		1,701	34,020		1,701	
Orchard Villa Elementary School		5720 NW 13th Avenue	Miami	33142	R	G		1,179	23,580		1,179	
Owens, Ruth Kruse Elementary School		11001 SW 76th Street	Miami	33173	R	G		741	14,820		741	EHPA
Palm Lakes Elementary School		7450 W 16th Avenue	Hialeah	33014	R	G		649	12,980		649	
Palm Springs North Elementary School		17615 NW 82nd Avenue	Hialeah	33015	R	G		1,029	20,580		1,029	
Pepper, Claude Elementary School		14550 SW 96th Street	Miami	33186	R	G		1,258	25,160		1,258	
Pharr, Kelsey Elementary School		2000 NW 46th Street	Miami	33142	R	G		511	10,220		511	
Porter, Gilbert Elementary School		15851 SW 112th Street	Miami	33196	R	G		1,769	35,380		1,769	
Reagan, Ronald Senior High		8600 NW 107th Avenue	Doral	33178	N	G	500	2,943	58,868		0	EHPA
Royal Green Elementary School		13047 SW 47th Street	Miami	33175	R	G		563	11,260		563	EHPA
Shenandoah Elementary School		1023 SW 21st Avenue	Miami	33135	R	G		500	10,000		500	EHPA
Sheppard, Ben Elementary School		5700 W 24th Avenue	Hialeah	33016	R	G		1,420	28,400		1,420	
South Miami High School	1	6856 SW 53rd Street	Miami	33155	R	G	500	3,224	64,480		3,224	s-1523-2002
Southwood Middle School	1	16301 SW 80th Avenue	Miami	33157	R	G		1,500	30,000		1,500	s-1523-2002
Stirrup Elementary School		330 NW 97th Avenue	Miami	33172	R	G		775	15,500		775	
Sunshine Pavilion @ Tamiami Park		10901 SW 24th Street	Miami	33165	R	G	1,000	2,450	49,000		2,450	
Thomas, W. R. Middle School		13001 SW 26th Street	Miami	33175	R	G		2,050	41,000		2,050	
Van Blanton Elementary School	1	10327 NW 11th Avenue	Miami	n/a	R	G		1,150	23,000		1,150	
Varela, Felix Senior High		15255 SW 96th Street	Miami	33197	N	G	500	2,913	58,260		2,913	EHPA
Village Green Elementary School		12265 SW 34th Street	Miami	33175	R	G		565	11,300		565	
Washington, Booker T. Senior High		1200 NW 6th Avenue	Miami	33136	N	G	500	1,028	20,560		1,028	EHPA
<b>TOTALS FOR MIAMI-DADE COUNTY</b>							<b>12,200</b>	<b>92,304</b>	<b>1,849,915</b>	<b>0</b>	<b>86,447</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	92,304	68,308	23,996	1,849,915			1,366,160	483,755				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNs Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNs Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usages	Comments
HD McMillian (2nd Tier)		13100 SW 59 street	Miami	33183	R	P	No	500	30,000		500	
Jose Marti MS (2nd Tier)		5701 W 24th Avenue	Hialeah	33016	R	P	No	166	10,000		500	
North Miami Beach High School		1247 NE 167th Street	N Miami Beach	33162	R	P		565	33,900		565	
S/S SS-1 MS					R	P		565	33,900		565	
Miami Jackson Snr HS					R	P		565	33,900		565	
Miami Edison HS (1st Tier)		6161 NW 5th Court	Miami	33127	R	P	No	500	30,000		500	
Rubin Dario MS (1st Tier)		350 NW 97th Avenue	Miami	33172	R	P	No	500	30,000		500	
South Dade Middle	3, 4	29100 SW 194 Ave	Homestead	33030	N	P	Not Yet	567	34,079		500	EHPA

2008 Statewide Emergency Shelter Plan

MIAMI-DADE

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	3,928	884	3,044	235,680			53,040	182,640				

**2008 Statewide Emergency Shelter Plan**

<b>MONROE</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Coral Shores HS	Café	89901 Old Hyw	Islamorada	33070	N	G, P,A	236	0	0		236	surge issues
Florida Int'l Univ (Univ Park Campus)	PC(Primera Casa/ CE Perry	11200 SW 8th Street	Miami	33165	R	G	1,289	0	0		1,289	SpNS
Harvey Government Center	HGC	1200 Truman Avenue	Key West	33040		P, A	22	0	0			surge issues
Key Largo ES	6	Rte1, box 195	key largo	33070		P, A	78	0	0			surge issues
Key West HS	Café	2100 Flager Ave	Key West	33040	N	G	300	0	0		300	surge issues
Poinciana ES	CAFÉ, Admin,Music and Arts				N	G	600	0	0	600	600	surge issues
St. Justin's Catholic Church	Parish Hall	105500 Overseas Hwy	Key largo				250	0	0		250	
Stanley Switlik ES	Café	3400 overseas Hwy	Marathon	33050		G, P,A	280	0	0		280	surge issues
Sugarloaf	16	RT 2 CRANE RD	Sugarloaf key	33042	N	G		0	0			surge issues
Sugarloaf MS	café	255 Crane Rd	Sugarloaf key	33042		G, P,A	352	0	0		352	surge issues
Switlike ES	10	3400 overseas Hwy	Marathon	33050	N	G	280	0	0		280	surge issues
<b>TOTALS FOR MONROE COUNTY</b>							<b>3,687</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>3,587</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	0	20,302	-20,302	0			406,040	-406,040				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
FIU	40 - Recreation Center	11200 SW 8th Street	Miami	33165			No	197	11,864		1289	
									0			
									0			
									0			
									0			
									0			
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	197	279	-82	11,820			16,740	-4,920				

**2008 Statewide Emergency Shelter Plan**

<b>NASSAU</b>												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bryceville Elementary School	8	6504 Church Rd	Bryceville	32009	N	G	68	128	2,550	68	68	operation 2008-2009
Callahan Elementary School	6	449618 US Hwy 301	Callahan	32011			326	0	0		326	
Callahan Intermediate School	1	34586 Ball Park Rd	Callahan	32011	R	G	278	327	6,537		278	NON-EHPA
Callahan Middle School	3	459121 Old Dixie Hwy	Callahan	32011			1,417	0	0	1,417	1,417	
Hilliard Middle School	15	1 Flashes Ave	Hilliard	32046	N	P	370	0	0			EHPA
Hilliard Elementary School	1	275568 Ohio St	Hilliard	32046	R	G	278	278	5,551		278	New Shelter 2007
West Nassau High School	6	1 Warrior Drive	Callahan	32011	N	G	477	561	11,222		477	EHPA
Yulee Elementary School	9	86063 Felmore Rd	Yulee	32097	N	G / A	314	370	7,390		314	EHPA
Yulee Middle School *	3,4,5,6	85439 Miner Rd	Yulee	32097	N	G	820	965	19,302		820	EHPA
Yulee Primary School	7	86426 Goodbread Rd	Yulee	32097			200	0	0	220		
Yulee High School	4,6	85375 Miner Rd	Yulee	32097	N	G	873	1,028	20,563		873	Operation 2007
<b>TOTALS FOR NASSAU COUNTY</b>							<b>5,421</b>	<b>3,657</b>	<b>73,115</b>	<b>1,705</b>	<b>4,851</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	3,657	3,696	-39	73,115			73,920	-805				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage	
Hilliard Middle School	15	1 Flashes Ave	Hilliard	32046	N	P	No	123	7,406		105	EHPA
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	123	265	-142	7,380			15,900	-8,520				

2008 Statewide Emergency Shelter Plan

OKALOOSA

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Addie Lewis MS		281 Mississippi Avenue	Valparaiso	32580			1,500	0	0	413		
Antioch Elementary School	1	4700 Whitehurst Lane	Crestview	32536	R	G	1,500	1,303	21,396	0	1,737	
Baker High School	B18	1369 14th Street	Baker	32531		G	2,500	166	2,495	761	266	
Blue Water Bay ES		4545 Range Rd	Niceville	32578		G	918	0	0	918		
Bruner Middle School		322 Holmes Boulevard	Ft. Walton	32548		G	2,500	0	0	1,088		
Choctawhatchee HS	12	110 Racetrack Road	Ft Walton	32458				0	0	163		
Choctawhatchee HS	1E	110 racetrack Rd NW	Fort Walton Beach	32547	R	G	391	326	5,547		326	
Crestview High School		1304 N Ferdon Boulevard	Crestview	32536			3,500	0	0	1,733		
Crestview HS	Building 11	1304 N Ferdon Boulevard	Crestview	32536	R	G		304	6,080			
Davidson Middle School	Building 1- except spns wing café)	6261 Old Bethel Rd.	Crestview	32536	(R)	(G)	3,267	2,477	49,536		3,267	
First Baptist Church		444 Highway 190	Valparaiso	32580		G	300	0	0	329		
Kenwood ES	10	634 Eagle St	Fort Walton Beach	32547	R	G		350	5,989		350	
Laurel Hill High School		8078 4th Street	Laurel Hill	32567		G	500	0	0	327		
Laurel Hill School	Building 7	8078 4th Street	Laurel Hill	32567	R	G		280	5,600			
Longwood Elementary School		50 Holly Drive	Shalimar	32579				0	0			
Niceville High School		800 E John Sims Parkway	Niceville	32578				0	0			
Shalimar Elementary School		1350 Joe Martin Circle	Shalimar	32579	R	G	300	0	0	510		
<b>TOTALS FOR OKALOOSA COUNTY</b>							<b>17,176</b>	<b>5,206</b>	<b>96,643</b>	<b>6,242</b>	<b>5,946</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	5,206	13,171	-7,965	96,643	263,420	-166,777	

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
Davidson MS (spns wing-cafe)		6261 Old Bethel Rd	Crestview	32536	R	P	Yes	67	4,020		67	
Project (TBD)		TBD	TBD				No		0			

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	67	79	-12	4,020	4,740	-720	

2008 Statewide Emergency Shelter Plan

OKEECHOBEE												
Name	Bldg. #	Address	City	Zip	Retrofit ted (R) or New Constr uction (N)	Genera l (G), PSN (P), Pet - Friendl y (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496 or Not Yet Surveyed)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
American Legion Post #64		501 SE 2nd Street	Okeechobee	34972			200	0	0	200		
Everglades Elementary School		3725 SE 8th Street	Okeechobee	34972			222	0	0	222		
First Baptist Church	Fam Life	401 SW 4th Stree	Okeechobee	34972	N	G	122	0	0	507	507	
Freshman Center Auditorium	N	610 SW 2nd Ave	Okeechobee	34972	R	G		0	0	332	332	
Ft. Drum Community Church		32415 Highway 441 North	Okeechobee	34972			120	0	0	120		
Moose Lodge		159 NW 36th Street	Okeechobee	34972			133	0	0	133		
North Elementary School		3000 NW 10th Terrace	Okeechobee	34972			500	0	0	500		
Okeechobee High School		2800 Highway 441 North	Okeechobee	34972			1,737	0	0	1,049		
Osceola Middle School	3	825 SW 21st Street	Okeechobee	34972	R	G	2,071	384	9,611	1,191	298	
Osceola Middle School	6	825 SW 21st Street	Okeechobee	34972	R	G		297	5,068		297	
Osceola Middle School	7	825 SW 21st Street	Okeechobee	34972	R	G		747	18,683		298	
Presbyterian Church		312 N Parrot Avenue	Okeechobee	34972			133	0	0	133		
Public Health Center		1728 NW 9th Avenue	Okeechobee	34972			500	0	0			
Sacred Heart Catholic Church		701 SW 6th Street	Okeechobee	34972			667	0	0	667		
Seminole Elementary School		2690 NW 42nd Avenue	Okeechobee	34972			222	0	0	222		
South Elementary School	15	575 SW 28th Street	Okeechobee	34972	N	G	500	1,011	20,215	500	1,011	
Yearling Middle School		925 NW 23rd Lane	Okeechobee	34972	R	G	700	500	10,000	700	500	
								0	0	500		
								0	0			
<b>TOTALS FOR OKEECHOBEE COUNTY</b>							<b>7,827</b>	<b>2,939</b>	<b>63,577</b>	<b>6,976</b>	<b>3,243</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)				
Storm Category 4/5	2,939	10,600	-7,661	63,577			212,000	-148,423				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
TBD												
Okeechobee CHD		1728 NW 9th Avenue	Okeechobee	34972			Yes	0	0		66	needs ASCE-7 cert.
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	0	150	-150	0			9,000	-9,000				



2008 Statewide Emergency Shelter Plan

ORANGE

Name	Bldg. #	Address	City	Zip	Retr ofitt ed (R) or New Con stru	Gener al (G), PSN (P), Pet - Friendl y (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
All Saints Church of Winter Park		338 East Lyman Avenue	Winter Park	32789			165	0	0			
Aloma Elementary School		2949 Scarlet Road	Winter Park	32792			310	0	0			
American Legion #63		214 W Plant Street	Winter Park	N/A			153	0	0			
Apopka High School		555 Martin Street	Apopka	N/A			1,095	0	0			
Apopka Middle School		425 N Park Avenue	Apopka	N/A			561	0	0			
Asbury United Methodist Church		220 Horatio Avenue	Maitland	N/A			333	0	0			
Azalea Park Methodist Church		50 Willow Park	Orlando	N/A			182	0	0			
Barnett Park Community Center		4801 W Colonial Drive	Orlando	N/A			186	0	0			
Bishop Moore High School		3901 Edgewater Drive	Orlando	N/A			993	0	0			
Bithlo Park Building		18501 Washington Avenue	Orlando	N/A			180	0	0			
Blankner School	2	2500 South Mills Ave	Orlando	32806	N	P	260	0	0			confimred pbsj REPORT
Blessed Trinity Catholic Church		1245 East Anderson Road	Orlando	N/A			365	0	0			
Broadway United Methodist Church		406 E Amelia Street	Orlando	N/A			272	0	0			
Calvary Assembly of God		1199 Clay Street	Orlando	N/A			866	0	0			
Calvary Presbyterian Church		1100 Lee Road	Orlando	N/A			133	0	0			
Carver Middle School		4500 West Columbia Street	Orlando	N/A			700	0	0			
Central Parkway Baptist		5281 Central Florida Pkwy	Orlando	N/A			13	0	0			
Chain of Lakes Middle School		8720 Conroy Windemere Rd	Orlando	32835	R	G	663	663	13,260		663	
Church of Good Sheperd		331 Lake Avenue	Maitland	N/A			126	0	0			
College Park Baptist Church		1914 Edgewater Drive	Orlando	N/A			59	0	0			
Colonial HS	gym/café 5&6	6100 Oleander Dr	Orlando	32807	N	G	710	710	14,200		710	circa 2002
Conway Middle School		4600 Anderson Road	Orlando	N/A			696	0	0			
Conway United Methodist Church		3401 S Conway Road	Orlando	N/A			433	0	0			
Corner Lake Middle School		1700 Chuluota Road	Bithlo	N/A			618	0	0			
Cypress Creek High School	cafeteria	1101 Bear Crossing	Orlando	N/A	R	G	614	0	0			
Cypress Creek High School	gym	1101 Bear Crossing	Orlando	N/A	R	G	634	0	0			
Discovery Middle School		601 Woodbury Road	Orlando	N/A			618	0	0			
Dr. Phillips High School	cafeteria	6500 Turkey Lake Road	Orlando	N/A	R	G	546	0	0			
East Orlando Baptist Church		8287 Curryford Road	Orlando	N/A			200	0	0			
Edgewater High School		3100 Edgewater Drive	Orlando	N/A			678	0	0			
Evans High School		4949 Silver Star Road	Orlando	N/A			562	0	0			
Faith Lutheran Church		5000 Silver Star Road	Orlando	N/A			206	0	0			
Faith United Methodist Church		1411 N Dean Road	Orlando	N/A			147	0	0			
First Baptist Church of Orlando		3000 S John Young Pkwy	Orlando	32805	R	G	1,136	1,136	22,720		1,136	
First Baptist Church of Pinecastle		1001 Hoffner Avenue	Orlando	N/A			426	0	0			
First Baptist Church of Union Park		10301 East Colonial Drive	Orlando	N/A			457	0	0			
First Presbyterian Church of Apopka		500 South Highland	Apopka	N/A			259	0	0			
First Presbyterian Church of Maitland		341 N Orlando	Maitland	N/A			234	0	0			
First United Church of Pine Hills		1400 North Nowell Street	Orlando	N/A			259	0	0			
First United Methodist Church		142 E Jackson Street	Orlando	N/A			400	0	0			
First United Methodist Church		201 South Park Avenue	Orlando	N/A			285	0	0			
Fort Gatlin Recreation Center		2009 Lake Margaret Drive	Orlando	N/A			100	0	0			
Freedom High	3	2500 Taft-Vineland Rd	Orlando	32837	N	P	710	0	0			17906sf per armor 2003
Freedom High	7	2500 Taft-Vineland Rd	Orlando	32837	N	P		0	0			8235 sf per armor 2003
Freedom Middle	301 - Gym	2850 TAFT VINELAND ROA	Orlando	32837	N	G		556	11,116			
Freedom Middle	401 - Dining Area	2850 TAFT VINELAND ROA	Orlando	32837	N	G		368	7,351			
Freedom Middle	401A - Mult. Rm- Dining Area	2850 TAFT VINELAND ROA	Orlando	32837	N	G		226	4,515			
Glenridge Middle School	4	801 Glenridge Way	Winter Park	32789	N	G	702	660	13,204		702	13204 sf per armor 2003
Glenridge Middle School	5	801 Glenridge Way	Winter Park	32789	N	G		188	3,751			3751 sf per armor 2003
Gotha Middle School		9155 Gotha Road	Windemere	N/A			725	0	0			
Grace United Methodist Church		4835 SilverStar Road	Orlando	N/A			236	0	0			
Holy Family Catholic Church		5125 S Apoka-Vine	Orlando	N/A			400	0	0			
Hunters Creek Elementary School		13400 Town Loop Blvd.	Orlando	N/A			706	0	0			

2008 Statewide Emergency Shelter Plan

ORANGE

Name	Bldg. #	Address	City	Zip	Retr ofitt ed (R) or New Con stru	Gener al (G), PSN (P), Pet - Frien dly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Jackson Middle School		6000 Stonewall Jackson	Orlando	N/A			697	0	0			
John Bridges Community Center		445 West 13th Street	Apopka	N/A			206	0	0			
John Calvin Presbyterian		800 West Oak Ridge Road	Orlando	N/A			114	0	0			
Jones High School	8	1400 W. Cypress Dr	Orlando	32805	N	G	500	500	10,000		500 circa 2003	
Lake Buena Vista Baptist Church		11551 State Road 535 North	Orlando	N/A			92	0	0			
Lakeview Middle - Org	9	1200 West Bay Street	Winter Garden	34787	N	G	602	533	13,816		533 Bldg 9? - Ehpa?	
Lee Middle School		1201 Maury Road	Orlando	N/A			706	0	0			
Legacy Middle	301 - Gym	11398 LAKE UNDERHILL ROAD	Orlando	32825	N	G		556	11,116			
Legacy Middle	401 - Dining Area	11398 LAKE UNDERHILL ROAD	Orlando	32825	N	G		368	7,351			
Legacy Middle	401A - Dining Area	11398 LAKE UNDERHILL ROAD	Orlando	32825	N	G		226	4,515			
Liberty Middle School		3405 South Chickasaw Trail	Orlando	N/A			533	0	0			
Lockhart Baptist Church		7601 Edgewater Drive	Orlando	N/A			420	0	0			
Lockhart Middle School		3411 Doctor Love Road	Orlando	N/A			553	0	0			
Loyal Order of Moose Lodge 766		5001 N Orange Blossom Tr	Orlando	N/A			1,548	0	0			
Maitland Baptist Church		1950 Mohican Trail	Maitland	N/A			380	0	0			
Maitland Middle School		1601 Choctaw Trail	Maitland	N/A			698	0	0			
Marks Street Community Center		99 East Marks Steet	Orlando	N/A			300	0	0			
McCormick Baptist Church		2100 McCormick Road	Apopka	N/A			66	0	0			
Meadow Woods Middle School		1800 Rhode Island Wood C	Orlando	N/A			618	0	0			
Memorial Middle School		2220 West Michigan Ave	Orlando	N/A			700	0	0			
Oak Level Baptist Church		10564 Second Avenue	Ocoee	N/A			195	0	0			
Oak Ridge High School		6000 Winegard Road	Orlando	N/A			633	0	0			
Ocoee High	306 - Gym	1925 OCOEE CROWN POI	OCOEE	34761	N	G		759	15,171			
Ocoee High	701 - Dining Area	1925 OCOEE CROWN POI	OCOEE	34761	N	G		591	11,814			
Ocoee Middle School		300 South Bulford Avenue	Ocoee	N/A	R	G	705	705	12,237		705	
Ocoee United Methodist Church		124 W Floral Street	Ocoee	N/A			202	0	0			
Odyssey Middle School	3-gym	9290 Lee Vista	Orlando	32829	N	G	559	559	12,429		559	
Olympia High School	7-Gym	4301 S. Apopka-Vineland	Orlando	32835	N	P	710	0	0			
Orangewood Presbyterian Church		1300 W Maitland Boulevard	Maitland	N/A			873	0	0			
Orlo Vista Building		26 North Nowell Avenue	Orlando	N/A			100	0	0			
Piedmont Lake Middle School		2601 Lakeville Road	Apopka	N/A			652	0	0			
Pine Hills First United Church		1400 N Nowell Street	Orlando	N/A			259	0	0			
Powers Drive Baptist Church		3311 Powers Drive	Orlando	N/A			475	0	0			
Redeemer Lutheran Church		3377 Aloma Avenue	Winter Park	N/A			306	0	0			
Robinswood Middle School		6305 Balboa Drive	Orlando	N/A			677	0	0			
Rock Springs MHP		1820 Rock Springs Road	Apopka	N/A			503	0	0			
S.W. Middle School		6450 Dr. Phillips Boulevard	Orlando	N/A			541	0	0			
South Orlando Baptist Church		11513 S Orange Blossom T	Orlando	N/A			720	0	0			
Springs Community Baptist Church		2320 N Rock Springs	Apopka	N/A			2,880	0	0			
St Francis of Assisi		834 South Highway 441	Apopka	N/A			160	0	0			
St James Catholic Church		215 North Orange Avenue	Orlando	N/A			173	0	0			
St Johns Vianney Church		6200 S Orange Boulevard	Orlando	N/A			661	0	0			
St Lukes United Methodist		4851 S Apopka-Vineland	Orlando	N/A			160	0	0			
St Margaret Mary Catholic Church		526 N Park Avenue	Winter Park	N/A			120	0	0			
St Pauls Presbyterian Church		1450 Citrus Oaks Avenue	Ocoee	N/A			100	0	0			
St Stephens Presbyterian Church		8601 Lake Underhill Road	Orlando	N/A			167	0	0			
Tangelo Baptist Church		7001 Ravenna Avenue	Orlando	N/A			78	0	0			
Timber Creek High School	7-Gym	1001 Avalon Boulevard	Orlando	32806	N	G	710	710	14,200		710	
Trinity Lutheran Church		123 East Livingston Road	Orlando	N/A			281	0	0			
Trinity United Methodist		2113 East South Street	Orlando	N/A			179	0	0			
Union Park Middle School	Classrooms	1844 Westfall Drive	Orlando	32817	R	G	696	0	0			
University High School	cafeteria-8	11501 Easterwood Drive	Orlando	N/A	R	G	0	329	5,256		329	
University High School	gym-3	11501 Easterwood Drive	Orlando	N/A	R	P	735	0	0			
University of Central Florida		4000 Central Florida Pkwy	Orlando	N/A			2,075	0	0			

2008 Statewide Emergency Shelter Plan

ORANGE

Name	Bldg. #	Address	City	Zip	Retr ofitt ed (R) or New Con stru	Gener al (G), PSN (P), Pet - Frien dly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Valencia Community College (east)		Econolockahatchee Trail	Orlando	N/A			699	0	0			
Valencia Community College (west)		Kirkman Road	Orlando	N/A			1,324	0	0			
Vietnam Veterans' Center		3400 N Tanner Road	Orlando	N/A			96	0	0			
Vista de Largo MHP		14465 Vista Del Largo Blvd	Winter Park	N/A			100	0	0			
Walker Middle School	Food Serv	150 Amidon Lane	Orlando	32809	R	G	696	0	0			
Washington Shores Presbyterian		3600 Rodger Drive	Orlando	N/A			206	0	0			
West Orange High School		1625 Beaulah Road	Winter Garden	N/A			1,144	0	0			
Westridge Middle School		3800 West Oakridge Road	Orlando	N/A			695	0	0			
Winter Park High School		2100 Summerfield	Winter Park	N/A			668	0	0			
Winter Park Presbyterian		400 South Lakemont Ave	Winter Park	N/A			1,500	0	0			
Woodsmen of America		425 South Bluebird	Apopka	N/A			54	0	0			
Zellwood Station Clubhouse		2126 Spillman Drive	Zellwood	N/A			666	666	132,320		666	
Zellwood Station Depot		2126 Spillman Drive	Zellwood	N/A			400	0	0			
Zellwood United Methodist Church		5538 Jones Avenue	Zellwood	N/A			1,620	0	0			
								0	0			
								0	0			
								0	0			
								0	0			
<b>TOTALS FOR ORANGE COUNTY</b>							<b>57,198</b>	<b>11,009</b>	<b>340,342</b>	<b>0</b>	<b>7,213</b>	

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	11,009	12,651	-1,642	340,342	253,020	87,322	

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
Blankner ES (Priority 4)	2	2500 South Mills Ave	Orlando	32806	No	201	12,110		134	
Freedom HS (priority 3)	3	2500 Taft-Vineland Rd	Orlando	32837	No	295	17,732		134	
Freedom HS (purity 3)	7	2500 Taft-Vineland Rd	Orlando	32837	No	138	8,310		134	
Olympia HS (Priority 2)	7	4301 S. Apopka-Vineland	Orlando	32835	No	135	8,100		134	
University Hs (priority 1)	gym-3	11501 Easterwood Drive	Orlando		No	332	19,964		134	
							0			
							0			

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	1,101	3,153	-2,052	66,060	189,180	-123,120	

2008 Statewide Emergency Shelter Plan

OSCEOLA

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496 or Not Yet Surveyed) <sup>1</sup>	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (Reported Capacity)	Comments
Bella Lago	Gym	3651 Pleasant Hill Rd	Kissimmee	34741	N	G		400	8,000		400	
Boggy Creek Elementary School		810 Florida Parkway	Kissimmee	34741		G	1,009	0	0			
Celebration HS	5	1809 Celebration	Kissimmee	34741	R	G		732	14,640			
Celebration HS	6	1809 Celebration	Kissimmee	34741	R	G		1,812	36,240			
Celebration HS	7	1809 Celebration	Kissimmee	34741	R	G		1,806	36,120			
Celebration HS	8	1809 Celebration	Kissimmee	34741	R	G		603	12,060			
Celebration HS	2-gym	1809 Celebration Blvd	Kissimmee	34747	R	G		822	16,450		846	
Celebration School		851 Celebration Avenue	Celebration	34747			213	0	0			
Central Avenue Elementary School	Cafeteria	1502 N Central Avenue	Kissimmee	34741	N	P		0	0			
Chestnut ES	Cafeteria	4300 Chestnut St.	Kissimmee	34759	N	G		551	11,020		551	
Cypress Elementary School		2251 Lakeside Drive	Kissimmee	34744		G	800	0	0			
Deerwood Elementary School		3701 Lakeside Drive	Kissimmee	34758		G	400	0	0			
Denn John Middle School		2001 Denn John Lane	Kissimmee	34744		G	587	0	0			
Discovery Intermediate	Cafeteria/gym	5350 San Miggel	Poinciana	34759	R	G		805	33,260		946	
Discovery IS	1	5350 San Miguel	Kissimmee	34758	R	G		127	2,540			
Discovery IS	3	5350 San Miguel	Kissimmee	34758	R	G		195	3,900			
Discovery IS	4	5350 San Miguel	Kissimmee	34758	R	G		175	3,500			
Discovery IS	5	5350 San Miguel	Kissimmee	34758	R	G		222	4,440			
Florida Christian College	Gym	1011 Bill Beck Blvd	Kissimmee	34744	R	G		1,625	32,500		1,625	
Gateway High School	ym/Auditorium	801 Bill Beck Boulevard	Kissimmee	34744		G	465	0	0			
Harmony ES	cafeteria	3365 Schoolhouse	St. Cloud	34773	NEW	G		271	5,429	271	195	
Harmony HS	4	3601 Arthur Gall.	St. Cloud	34771	R	G		1,176	23,520			
Harmony HS	5	3601 Arthur Gall.	St. Cloud	34771	R	G		711	14,220			
Harmony HS	6	3601 Arthur Gall.	St. Cloud	34771	R	G		1,804	36,080			
Harmony HS	7	3601 Arthur Gall.	St. Cloud	34771	R	G		1,805	36,100			
Harmony S HS	2-Gym	3601 ARTHUR J. GALLAGHER BOULEVARD	St. Cloud	34771	R	G		1,480	29,600		1,480	
Hickory Tree Elementary School	Caferia	2355 Hickory Tree Road	St. Cloud	34772		G	353	0	0			
Highlands Avenue Elementary School		800 W Donegan	Kissimmee	34741		G	138	0	0			
Horizon Middle School	2-gym	2020 Ham Brown Road	Kissimmee	34746	R	G		875	17,496			
Kenansville Comm Center	Center	1178 Old Canoe Creek	St. Cloud	34769	R	G		120	2,400		120	
Kissimmee ES	3	3700 Donegan	Kissimmee	34741	R	G		153	3,060			
Kissimmee ES	5	3700 Donegan	Kissimmee	34741	R	G		176	3,520			
Kissimmee ES	6	3700 Donegan	Kissimmee	34741	R	G		183	3,660			
Kissimmee ES	4-café	2420 Dyer Boulevard	Kissimmee	3474	R	G		209	5,010		209	
Kissimmee Middle School	2-gym	2410 Dyer Boulevard	Kissimmee	34741	R	G	1,166	875	17,496		874	
Lakeview Elementary School		2900 5th Street	St. Cloud	34769			350	0	0			
Liberty HS	Gymnasium	4250 Pleasant Hill	Kissimmee	34746	NEW	G		195	3,899	195	195	
Michigan Avenue Elementary School		2015 S Michigan Avenue	St. Cloud	34769			500	0	0			
Mill Creek Elementary School		1700 Mill Slough Road	Kissimmee	34744			350	0	0			
Multi-use Shelter/St. Cloud			St. Cloud	34769	N	P		0	0			SPNS
Narcoossee Comm School	2-gym/café				R	G		710	14,200		710	
Narcoossee Community Schoo	3	2700 Narcoossee Rd	Kissimmee	34771	R	G		497	9,940			
Narcoossee Community Schoo	4	2700 Narcoossee Rd	Kissimmee	34771	R	G		198	3,960			
Narcoossee Community Schoo	5	2700 Narcoossee Rd	Kissimmee	34771	R	G		549	10,980			
Neptuen ES	cafeteria	5901 Neptune Rd.	St. Cloud	34769	NEW	G		204	4,088	204	204	
Neptune Middle School		2727 Neptune Road	Kissimmee	34744			424	0	0			
Oak Leaf Landing		2350 N. Central Avenue	Kissimmee		R	G		0	0		0	

**2008 Statewide Emergency Shelter Plan**

**OSCEOLA**

Osceola Elementary "C"			Kissimmee		N	G		1,000	20,000		1,000		
Osceola High School		420 S. Thacker Avenue	Kissimmee	34758				570	0				
Parkway Middle School		857 Florida Parkway	Kissimmee	34743				500	0				
Partin Settlement ES	Cafeter	2434 Remington Blvd	Kissimmee	34744	N	G		0	436	8,720		436	
Pleasant Hill Elementary School		1253 Pleasant Hill Road	Kissimmee	34746				435	0	0			
Poinciana ES	2	4200 Rhododendron	Kissimmee	34758	R	G			183	3,660			
Poinciana ES	3	4200 Rhododendron	Kissimmee	34758	R	G			152	3,040			
Poinciana ES	4	4200 Rhododendron	Kissimmee		R	G			716	14,320		209	
Poinciana ES	5	4200 Rhododendron	Kissimmee	34758	R	G			176	3,520			
Poinciana ES	6	4200 Rhododendron	Kissimmee	34758	R	G			183	3,660			
Poinciana High School	4	2300 S Poinciana Blvd	Kissimmee	34758				750	223	4,466			
Reedy Creek Elementary School	Bldg 1	2300 Brook Court	Kissimmee	34758	R	G		1,880	1,410	28,200		1,410	
Reedy Creek Elementary School (2004)	Bldg 3	2300 Brook Court	Kissimmee	34758	N	G			250	5,003			
Reedy Creek Elementary School (two story add)	Bldg 2	2300 Brook Court	Kissimmee	34758	R	G			936	18,720		936	
School for the Arts	Auditorium	3151 N. Orange Blossom Trail	Kissimmee	34744		G		1,800	0	0			
St. Cloud ES	Caferia	2701 Budinger Ave	St. Cloud	34769	N	G			551	11,020		551	
St. Cloud High School		2000 Bulldog Lane	St. Cloud	34769		G		960	0	0			
St. Cloud Middle School		1975 S Michigan Avenue	St. Cloud	34769		G		750	0	0			
Sunrise ES		1925 Ham Brown Rd	Kissimmee	34746	N	G			551	11,020		551	
Thacker Elementary School		301 Thacker Avenue	Kissimmee	34741		G		345	0	0			
Ventura Elementary School	3	275 Water Edge Drive	Kissimmee	34743	R	G			436	8,720		436	
								0	0				
								0	0				
<b>TOTALS FOR OSCEOLA COUNTY</b>								<b>14,745</b>	<b>29,269</b>	<b>603,397</b>	<b>670</b>	<b>13,884</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	29,269	11,986	17,283	603,397			239,720	363,677	

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNs Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNs Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
Central Ave ES		1502 N Central Avenue	Kissimmee	34741	N	P	no	550	33,050		500	
Barney E. Veal Center	A	700 Generations Point	Kissimmee	34744	N	P	Yes	285	17100		285	EHPA design per county
St. Cloud Senior Center		3101 17th Street	St. Cloud	34769	R	P	Yes	166	9,960		166	
Oak Leaf Landing		2350 N. Central Avenue	Kissimmee	34741	R	P	No	330	19,800		251	per PBSJ report

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	1,331	1,195	136	79,860			71,700	8,160	

**2008 Statewide Emergency Shelter Plan**

**PALM BEACH**

Name	Bldg. #	Address	City	Zip	Retrofit ed (R) or New Constru ction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Atlantic SHS	2,3,4,5,6,7	2455 W. atlantic Ave	Delray	33445	N	G	5,750	5,040	75,604		5,750	
Bear Lakes Middle School	1,2,3,4, G	3505 Shenandoa Boulevard	W Palm Beach	33409	R	G	1,600	0	21,422			
Bibletown community Church		407 NW 4th Ave	Boca Raton	33486			450	0	9,000			G&O report
Boca Ration Community HS	2,3,4,5,6	1501 NW 15th Ct	Boca Raton	33486	N	G	3,900	3,900	62,759		3,900	potential of 1.4ft of surge in b
Boynton Beach High School	1,3,6	4975 Park Ridge Boulevard	Boynton Beach	33462	N	G	2,720	2,720	49,044		2,720	
Carver Middle School	2,4,6,8	101 Barwick Road	Delray Beach	33445	R	G	1,460	0	23,246			
Christa McCauliffe Middle School	1,2,3,4	6500 Le Chalet Boulevard	Boynton Beach	33437	R	G	1,600	0	25,840		0	S-1543
Discovery Key Elementary School	1	3550 Lyons Road	Lake Worth	33467	N	G	800	800	33,806		800	
Forest Hill SHS	3,4,6,7	8499 Forest Hill blvd	W. Palm Beach	33405	N	G	4,000	4,000	77,037		4,000	
Frontier Elementary School	1	6701 180th Avenue, North	Loxahatchee	33470	N	G	800	800	33,489		800	
Glades Central High School	4, 5	1001 SW Avenue M	Belle Grade	33430	R	G	3,800	2,244	33,662		3,800	
Good Shepard Church		1800 Bacom Point Road	Pahokee	33476			56	0	0			
Heritage ES	1	5100 Melaleuca Lane	Greenacres	33463		G	500	1,689	33,773		500	not surveyed
Hidden Oaks ES	1							1,947	38,944			
Independence Middle	4	4001 Greenw	Jupiter	33410	N	G	410	410	8,200		410	
John I. Leonard HS		4710 10th Avenue	Greenacres	33463	N	G		3,500	70,000		3,500	will open Aug 07
Lake Worth Middle School	1,2,3,4	1300 Barnett Drive	Lake Worth	33460	R	G	1,600	0	20,086			
Lakeshore Middle School	2,3,4,7, 50	425 West Canal Street	Belle Grade	33430	N	G	2,800	2,800	44,493		2,800	
McLeod Bethune ES	1	1501 Aveune U	Riviera Beach	33404		G	500	1,819	36,383		500	not surveyed
North Grade Elementary School		824 North K Street	Lake Worth	33460			500	0	0			
Odyssey Middle School	4	6161 Woolbright Road	Boynton Beach	33437	N	G	515	515	10,300			
Olympic Heights Comm. HS		20101 Lyons Road	Boca Raton	33437	R	G	1,900	0	38,000			
Omni Middle School	C, D,F, G	5775 Jog Road	Boca Raton	33496	R	G	1,600	0	22,656			
Pahokee Community Center		360 East 1st Street	Pahokee	33476			100	0	0			
Palm Beach Central High School (pa	4,5,6,7,	8499 W. Forest Hill Blvd.	Wellington	33414	N	G	5750	3,914	78,275		5,750	Gym is SpnS rest general
Palm Beach Community College		4200 Congress Avenue	Lake Worth	33461			371	0	0			
Palm Beach Gardens Community Center		4404 Burns Road	Palm Bch Gardens	33410			600	0	0			
Park Vista Community High School	2,5,6,7,8,9,10	7900 Jog Rd.	Boynton Beach	33427	N	G	4950	4,376	65,641		4,950	Will Open Aug 04
Riverside Community Center		10170 Riverside Drive	Palm Bch Gardens	33410			200	0	0			
Royal Palm Beach Cultural Center		151 Civic Center Way	Royal Palm Bch	33411			730	0	0			
Saint Paul Lutheran Church		701 West Palmetto Park Rd	Boca Raton	33486			427	0	0			
Seminole Ridge HS	2,3,4,5,6,7,10	4601 Seminole Pra	Loxahatchee	33470	N	G	3900	3,900	98,279		3,900	
South Florida Fair Grounds		9067 Southern Boulevard	W Palm Beach	33411		P	500	0	0			Special Needs Shelters
Spanish River Presbyterian Church		2400 Yamato Road	Boca Raton	33434			373	0	0			
W. Boca Raton Community High Sc	2,3,4,5,6,7,9,11	12811 Glades Rd.	Boca Raton	33428	N	G	3900	3,900	99,132		3,900	Will open Aug 04
W.B. Duncan Middle School	3,4,6,7	5150 117th Court North	Palm Bch Gardens	33418	R	G	1,600	0	23,595			
Wellington Lands Middle School	1,2,3, 4	1100 Areo Club Drive	W Palm Beach	33414	R	G	1,600	0	25,786			
West Gate					N	G		0	0			
Westgate Elementary School		1545 Loxahatchee Road	W Palm Beach	33414	R	G	720	2,293	45,861		720	Remodidl school
Wm. T. Dwyer High School	1, 2, 8	13601 N Military Trail	Palm Bch Gardens	33418	R	G	1,900	2,343	58,579		1,900	
								0	0			
<b>TOTALS FOR PALM BEACH COUNTY</b>							<b>59,132</b>	<b>52,910</b>	<b>1,187,288</b>	<b>0</b>	<b>44,850</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	52,910	47,288	5,622	1,187,288			945,760	241,528				

Special Needs Storm Shelters

2008 Statewide Emergency Shelter Plan

**PALM BEACH**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
South Florida Fair Expo		9067 Southern Boulevard	W Palm Beach	33411	R	P	Yes	550	33,000		550	"Special Care" 550 Spn-550 caregivers
Palm Beach Central HS (Part)	Gym	8499 W. Forest Hill Blvd.	Wellington	33414	N	P	No	250	15,000		250	250 Spn - 250 caregivers
									0			
									0			
									0			
									0			
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	800	290	510	48,000			17,400	30,600				

2008 Statewide Emergency Shelter Plan

PASCO

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496) <sup>2</sup>	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Anclote ES		3610 Madison Street	Elfers	34652			1,267	0	0	1,267		
Bayonet Point Middle School		11125 Little Road	New Port Richey	34654			3,137	0	0	478		
Calusa Elementary School	4	7520 Orchid Lake Road	New Port Richey	34654	R	G	1,628	121	1,817		181	7/15/03 completion
Centennial Elementray School		38501 Centennial Road	Dade City	33525			0	0	0	0		
Centennial Middle School	2	38501 Centennial Road	Dade City	33525	R	G	1232	786	11,797		882	
Chasco Elementray/Middle School	2-1st flr	7720 Ridge Road	New Port Richey	34654	N	G	550	425	8,695		425	
Chasco Elementray/Middle School	2-2nd flr	7720 Ridge Road	New Port Richey	34654	N	G	550	425	9,399		425	
Cypress Elementary School		10055 Sweet Bay Court	New Port Richey	34654			1,181	0	0	187		
Denham Oaks Elementary School	1	14220 Oak Grove Blvd	Lutz	33548	R	G	297	258	3,869		297	
Denham Oaks Elementary School	2	14220 Oak Grove Blvd	Lutz	33548	R	G	478	380	5,703		478	
Denham Oaks Elementary School	3	14220 Oak Grove Blvd	Lutz	33548	R	G	232	203	3,042		232	
Denham Oaks Elementary School	5	14220 Oak Grove Blvd	Lutz	33548	R	G	195	227	5,686		195	
Denham Oaks Elementary School	6	14220 Oak Grove Blvd	Lutz	33548	R	G	429	429	7,454		429	
Denham Oaks Elementary School	7	14220 Oak Grove Blvd	Lutz	33548	R	G	249	204	3,057		249	
Double Branch ES	Target 2008	31500 Chancey Pkwy	Wesley Chapel	33543	N	G	800	800	16,000			
Gulf High School		5355 School Road	New Port Richey	34652			1,595	0	0	1,595		Structural Problems
Hudson High School		14410 Cobra Way	Hudson	34669			3143	0	0	3,225		Structural Problems
Hudson High School		14410 Cobra Way	Hudson	34669			82	0	0			Structural Problems
JW Mitchell HS	7	2323 Little Road,	New Port Richey	34655	R	G	1,230	1,570	31,400		1,230	
JW Mitchell HS	8	2323 Little Road,	New Port Richey	34655	R	G	607	607	12,140		607	
JW Mitchell HS	9	2323 Little Road,	New Port Richey	34655	R	G	400	400	8,000		400	
Lacoochee Elementary School	11	38815 Cummer Road	Lacoochee	33525	R	G	101	60	900	751	101	
Lacoochee Elementary School	12	38815 Cummer Road	Lacoochee	33525	R	G	503	383	5,749		503	
Lacoochee Elementary School	13	38815 Cummer Road	Lacoochee	33525	R	G	90	74	1,108		90	
Longleaf Elementary School	4	2323 Little Road	New Port Richey	34655	N	G	804	1,060	26,500		804	Opens 8/05
New River ES			Zephyrhills		N	G	775	775	15,500		775	2008-2009
Northwest Elementary School		14302 Cobra Way	Hudson	34669			1,403	0	0	1,403		
Oakstead ES	4	19925 lake Patience RD	Land O'Lakes	34639	N	G	775	775	15,500		775	
Pasco Hernando Comm. College	Target 2008				N	(G)	250	250	5,000			
Pasco High School	16	36850 SR 52	Dade City	33525	R	G	198	83	1,248	610	198	
Pasco High School	17	36850 SR 52	Dade City	33525	R	G	269	221	3,313		269	
Pasco High School	18	36850 SR 52	Dade City	33525	R	G	88	50	750		88	
Pineview Elementary School	1,2,3,4	5333 Parkway Blvd	Land O'Lakes	33549	N	G	1227	804	16,080		804	8/1/03 completion
Pineview Middle School	1	5334 Parkway Boulevard	Land O'Lakes	34639	R	G	617	0	0	74	74	
Pineview Middle School	5	5334 Parkway Boulevard	Land O'Lakes	34639	R	A	153	0	9,546		0	pets only (300pets)
Raymond B. Stewart Middle School	10	38505 Tenth Avenue	Zephyrhills	33540	R	G	375	236	4,095		242	
Raymond B. Stewart Middle School	9A/ 5	38505 Tenth Avenue	Zephyrhills	33540	R	G	112	122	2,879	364	122	
RB Stewart MS	Cafeteria	38505 Tenth Avenue	Zephyrhills	33540	N	G	487	487	9,740		487	
Regional Evacuation Shelter	Target 2009				N	(G)	1,000	1,000	20,000		1,000	2008-2009
River Ridge Middle/High School	1	11646 Town Center Road	New Port Richey	34654	R	G	240	339	4,812	4,812	135	
River Ridge Middle/High School	2	11646 Town Center Road	New Port Richey	34654	R	G	527	517	7,761		339	
River Ridge Middle/High School	3	11646 Town Center Road	New Port Richey	34654	R	G	874	636	15,899		515	
River Ridge Middle/High School	4	11646 Town Center Road	New Port Richey	34654	R	P	468	0	0		271	
River Ridge Middle/High School	5	11646 Town Center Road	New Port Richey	34654	R	G	401	665	16,623		238	
River Ridge Middle/High School	24	11646 Town Center Road	New Port Richey	34654	R	G	102	0	0	0		Structural Problems
River Ridge Middle/High School	31	11646 Town Center Road	New Port Richey	34654	R	G	295	236	5,900		236	
River Ridge Middle/High School	23-1st fl	11646 Town Center Road	New Port Richey	34654	R	P	455	455	18,200		421	
River Ridge Middle/High School	23-2nd flr	11646 Town Center Road	New Port Richey	34654	R	G	829	825	14,000		829	
Saint Leo University	4	33701 SR 52	St Leo	33525	N	G	291	291	5,820		291	EHPA
Saint Leo University	22	33701 SR 52	St Leo	33525	R	G	0	0	0			
Saint Leo University	24	33701 SR 52	St Leo	33525	R	G	0	525	10,500			
Saint Leo University		33701 SR 52	St Leo	33525	R	G	0	231	4,620			
Saint Leo University	Bowman	33701 SR 52	St Leo	33525	R	P	115	0	0	115	115	
Saint Leo University	Bowman	33701 SR 52	St Leo	33525	R	G	270	0	0	145	145	
Saint Leo University	Lewis	33701 SR 52	St Leo	33525	R	G	461	0	0		461	
Saint Leo University	St. Edwards	33701 SR 52	St Leo	33525	R	G	525	346	6,920		525	



**2008 Statewide Emergency Shelter Plan**

**PASCO**

Schrader Elementary School	9	11041 Little Rd	New Port Richey	34654	R	G	850	683	10,252		850	4/1/03 completed
Seven Oaks Elementary	4	27633 Mystic Oak	Wesley Chapel	33544	N	G	804	1,060	26,500		804	Opens 8/05
Seven Springs Middle School	C	2441 Little Road	New Port Richey	34654	R	G	1,180	944	23,600		834	
Shady Hills Elementary School		18000 Shady Hills Road	Spring Hill	34610			1,869	0	0	1,869		
Sunlake High School	Target 2008	3023 Sunlake Blvd	Land O'Lakes	34648	N	G	2000	2,000	40,000			
Thomas Weightman Middle School	2	30649 Wells Road	Zephyrhills	33544	R	G	389	389	10,820	1,526	389	
Thomas Weightman Middle School	3	30649 Wells Road	Zephyrhills	33544	R	G	573	698	17,446		573	
Thomas Weightman Middle School	4	30649 Wells Road	Zephyrhills	33544	R	G	427	401	6,018		427	
Thomas Weightman Middle School	5	30649 Wells Road	Zephyrhills	33544	R	G	234	234	3,969		234	
Thomas Weightman Middle School	6	30649 Wells Road	Zephyrhills	33544	R	G	427	351	5,270		427	
Thomas Weightman Middle School	8	30649 Wells Road	Zephyrhills	33544	R	G	427	401	6,018		427	
Trinity ES	1,2,3,4	2209 Duck Slough Blvd	New Port Richey	34654	N	G	1170	849	21,216		755	
Trinity Oaks ES	2	1827 Trinity Oaks Blvd	New Port Richey	34655	N	G	884	884	17,680		884	
Wesley Chapel High School	1	30651 Wells Road	Wesley Chapel	33544	N	P	628	0	2,040		628	
Wesley Chapel HS	2	30651 Wells Road	Wesley Chapel	33544	R	P	500	0	0		500	
Wesley Chapel HS	3	30651 Wells Road	Wesley Chapel	33544	R	G	1143	1,119	16,780		1,143	
Wesley Chapel HS	5	30651 Wells Road	Wesley Chapel	33544	R	G	370	321	4,816		370	
Wesley Chapel Park	Target 2009				N	(G)	1,100	1,100	22,000		1,100	2008-2009
Wiregrass High School	4	2909 Mansfield Blvd	Wesley Chapel	33543	N	G	1,102	1,102	22,040		1,102	Opens early 06
Wiregrass High School	6	2909 Mansfield Blvd	Wesley Chapel	33543	N	G	317	317	6,340		317	
Wiregrass High School	7	2909 Mansfield Blvd	Wesley Chapel	33543	N	G	311	311	6,220		311	
Zephyrhills High School	1 Less Rm 10	6335 12 Street	Zephyrhills	33540	R	P	176	0	0	173		updated info- wall/roof issues
Zephyrhills High School	chorus & bar	6335 12 Street	Zephyrhills	33540	R	G	117	0	0	1,740		open span 68ft

**TOTALS FOR PASCO COUNTY**      51,360      31,445      646,047      20,334      28,958      0

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result	
Storm Category 4/5	31,445	59,873	-28,428	646,047			1,197,460	-551,413		

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
River Ridge MS	24	11646 Town Center Road	New Port Richey	34654	R	P	Yes, needs upgrade	137	8,245		222	
St. Leo University	Bowman	33701 SR 52	St. Leo		R	P		0	0	115	115	
Wesley Chapel HS	2	30651 Wells Road	Wesley Chapel	33544	R	P	No	315	18,954		500	
Wiregrass High School	3	2909 Mansfield Blvd	Wesley Chapel	33543	N	P	No	363	21,806		600	
Zephyr Hills HS	Rm's 105-114 of Blg 1	6335 12 Street	Zephyrhills	33540		P	Not enough			117	117	
								0	0			

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result	
Storm Category 4/5	815	1,580	-765	48,900			94,800	-45,900		

2008 Statewide Emergency Shelter Plan

PINELLAS

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496) <sup>2</sup>	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity) (10sf pp)	Comments
Anona United Methodist		13233 Indian Rocks Road	Largo	33774			500	0	0	500		
Azalea Elementary		1680 74 Street North	St Petersburg	33710			1,133	0	0	1,065		
Azalea Middle School		7855 22 Avenue	St Petersburg	33710			651	0	0	348		
Bardmoor Elementary School		8900 Greenbrier Road	Largo	33777			875	0	0	405		roof questions/surge issues per PBSJ report
Bauder Elementary School	1	12755 86 Avenue North	Seminole	33776	R	G	470	0	0	336	1,159	open spans-formboard roof-walls issues
Boca Ciega High School		934 58 Street South	Gulfport	33707			0	0	0			
Brooker Creek E S	4	3031 Forelock Rd	Tarpon Springs	34688	R	G		342	6,840		1,389	orig-578
Brooker Creek E S	5	3031 Forelock Rd	Tarpon Springs	34688	R	G		342	6,840			orig-590
Calvary Baptist Church		331 Cleveland Street	Clearwater	34615			1,000	0	0	1,000		
Campbell Park ES		1051 7th Ave S	St. Petersburg	33705	N	G		1,330	26,600		2,660	
Carwise Middle School	5&6	3301 Bentley Drive	Palm Harbor	34684	R	G, P		2,400	48,000	1,593	4,043	PBSJ-study-2523
Clearview Elementary School		3815 43 Street North	St Petersburg	33714			480	0	0	480		
Clearwater High School		540 Hercules Avenue	Clearwater	34624			901	0	0	493		
Coachman Fundamental		2235 Coachman Road	Clearwater	33765			206	0	0	147		
Countryside High School	6	300 McMullen Booth	Clearwater	33781	R	P	4,219	250	5,000	1,626		retrofitted-per/ldm only needed sh
Curlew Creek Elementary School		3030 Curlew Road	Palm Harbor	34684			357	0	0	290		
Dixie Hollins High School		4940 62 Street North	St Petersburg	33709			1,103	0	0	740		
Doug Jamerson ES	4	1200 37th St. S	St. Petersburg	33714	R	G		340	6,800		1,347	
Doug Jamerson ES	5	1200 37th St. S	St. Petersburg	33714	R	G		340	6,800			
Doug Jamerson ES	4&5	2350 22 Ave S	St Petersburg	33714	R	GP	736	61	1,210			
Dunedin Community Center		1920 Pinehurst RD	Dunedin	34698	N	G		400	8,000		800	
Dunedin ES		900 Union Street	Dunedin	34698	N	G		0	0			due online Aug 2007
Dunedin Highland Middle School	4	70 Patricia Avenue	Dunedin	34698	N	G	1,333	332	6,436			ARC 4496 per PBSJ report
Dunedin Highland Middle School	5	70 Patricia Avenue	Dunedin	34698	N	G		617	12,330			ARC 4496 per PBSJ report
East Lake High School	2,3,6,9	1300 Silver Eagle Drive	Tarpon Springs	34689	R	G & P	2,246	2,219	44,380		4,041	
Eisenhower Elementary	1	2800 Drew Street	Clearwater	34619			1,642	0	0	614		
Fairmont Park Elementary School	4&5	575 41 Street South	St Petersburg	33711	R	G,p	1,109	61	1,220		61	PBSJ Report
Fairmount Park ES	4	575 41 Street South	St Petersburg	33711	R	G		340	6,800		1,157	PBSJ Report
Fairmount Park ES	5	575 41 Street South	St Petersburg	33711	R	G		340	6,800			PBSJ Report
First Baptist Church		500 Wood Street	Dunedin	34698			430	0	0	430		
First Baptist Church of Safety Harbor		525 14 Avenue South	Safety Harbor	34695			500	0	0	500		
First United Methodist Church		545 East Tarpon Avenue	Tarpon Springs	34689			500	0	0	500		
Gibbs High School		850 34 Street South	St Petersburg	33711	N	G	2,500	3,275	65,500		6,550	replace old bldgs
Gulfport ES		2014 52nd Street S	St. Petersburg	33707	N	G	1,250	1,330	26,600		2,660	L
Hamilton Disston School		5125 11 Avenue South	Gulfport	33707			698	0	0	569		
High Point ES		5921 150th Ave	Clearwater	33760	N	G		0	0			due online Aug 2007
Holy Trinity Greek		409 Old Coachman	Clearwater	33761			620	0	0	620		
James Sanderlin ES	4	2350 22nd Ave S	St. Petersburg	33714	R	G		337	6,800			
James Sanderlin ES	5	2350 22nd Ave S	St. Petersburg	33714	R	G		338	6,800			
James Sanderlin ES	4&5	2350 22nd Ave S	St Petersburg	33712	R	G&P	736	56	1,120		1,255	not done 1435A
John Hopkins Middle School	5&6	701 16 Street South	St Petersburg	33705	R	G & P	1,410	0	0	703	1,113	pbsj-study
Kennedy Middle School	1 (1st flr halls)	1660 Palmetto Street	Clearwater	33755	R	G & P	868	1,756	35,120		3,512	pbsj-study-868
Lakewood High School		1400 54 Avenue South	St Petersburg	33709			2,172	0	0	629		
Largo High School	11 (1st floor)	410 N Missouri Avenue	Largo	33770	R	G	1,665	0	0	537	1,074	wall questions
Largo Middle School	8,9,10,11	115 8 Avenue SE	Largo	33771	R	G & P	2,390	0	0			roof, wall questions per PBSJ
Lealman Intermediate Middle School	1-cr	4900 28th St. N	St Petersburg	33714	N	G	2400	1,272	25,446		3,504	replace old bldgs
Lealman Intermediate Middle School	4-gym	4900 28th St. N	St Petersburg	33714	N	G		480	9,552			
Leila Davis Elementary School		2630 Landmark Drive	Clearwater	34621			1,992	0	0	1,206		
McMullen Booth E S	4	3025 union st	Clearwater	33579	R	G		359	7,180		1,327	
McMullen Booth E S	5	3025 union st	Clearwater	33579	R	G		359	7,180			
Meadowlawn Middle School		5900 16 Street North	St Petersburg	33703	N	G, P	2500	0	0			exiting-storm-only-storm-surge-issi

**2008 Statewide Emergency Shelter Plan**

**PINELLAS**

Mildred Helms Elementary School		561 S Clw/Largo Road	Largo	33770			718	0	0	718		
Mt. Vernon Elementary School		4629 13 Avenue North	St Petersburg	33713			362	0	0	323		
Nina Harris ECC		6000 70 Avenue North	Pinellas Park	33771			1,298	0	0	483		
Northeast High School		1717 54 Avenue North	St Petersburg	33714			1,979	0	0	1,336		
Northside Baptist Church		6000 38 Avenue North	St Petersburg	33710			758	0	0	758	758	
Northwest Elementary School		5601 22 Avenue North	St Petersburg	33710			535	0	0	535		
Oak Grove Middle School	6-Jan	1370 S Belcher Road	Clearwater	33764	N	G		0	0			replace old bldgs
Oakhurst Elementary School		10525 N 137th Street	Seminole	33774			623	0	0	623		
Palm Harbor Elementary School		415 15 Street	Palm Harbor	34683			656	0	0	656		
Palm Harbor Middle School	4 & 5 (first floors only)	1800 SR 584	Palm Harbor	34683	R	G	1,820	1,820	36,400		2,848	good-1st floor-impact glass
Palm Harbor University HS	1 & 5	1900 Omaha Street	Palm Harbor	34683	R	G, P	2,050	2,050	41,000		3,022	
Paul B. Stephens		2929 CR 193	Clearwater	33759			582	0	0	582		
Pinellas Central Elementary School		10501 Street North	Pinellas Park	33771			668	0	0	438		
Pinellas Park High School	1	6305 118 Avenue North	Pinellas Park	33771	R	G, P	3,177	0	0	2,075	4,150	wall questions also unprotected higher windows?
Pinellas Technical Education Center		901 34 Street South	St Petersburg	33711			2,136	0	0	1,602		
Ross Norton Recreation Center		1426 Martin Luther King Jr Av	Clearwater		N	G	607	303	6,060		607	
Safety Harbor M. S. (2,3,4,5,6,7,9,11,12,14 & 15)		125 7 Street North	Safety Harbor	34695	R	G & P	2,378	0	0			
Safety Harbor MS		901 1ST Ave North	Safety Harbor	34695	N	G		3,853	77,060		7,707	exiting storm only- surge issues
Sandy Lane Elementary School		1360 Sandy Lane	Clearwater	33755			1,350	0	0	1,350		
Seminole Elementary School		10950 74 Avenue North	Largo	33777			816	0	0	816		
Seminole High School		8401 131 Street North	Seminole	33776			2,073	0	0	2,073		
Seminole Library		9199 113th Street North	Largo	33770			43	0	0			
Seminole Middle School	1 & 13	8701 131st Street North	Seminole	33776	R	G & P	1,436	0	0	742		
Seminole Recreation Center		9100 113 Street North	Seminole	33772			685	0	0	390		
Sexton ES	4 & 5	1997 54th Ave N	St. Petersburg		R	G & P	1372	0	0	686	1,372	wall questions
Southside Fundnamental Middle School		1701 10 Street South	St Petersburg	33705			786	0	0	346		
St. Nicholas Catholic Church		136 N Pinellas Avenue	Tarpon Springs	34689			350	0	0	350		
St. Paul Christian Life Center		1498 Rosery Road	Largo	33770			1,455	0	0	1,455		
St. Petersburg High School	4 & 5	2501 5th Avenue North	St Petersburg	33713	R	G, P	1,804	1,755	35,100		2,167	PBSJ report
Tarpon Springs Middle School	4 & 5 (first floors)	500 N Florida Avenue	Tarpon Springs	34689	R	G, P	1,654	1,825	36,500		2,617	impact glass
Thurgood Marshall Middle School		3901 22 Ave. S.	St Petersburg	33711	N	G/A	3,000	3,459	69,180		6,918	replace old bldgs
Trinity Presbyterian Church		2001 Rainbow Drive	Clearwater	33765			400	0	0	400		
Tyrone Middle School		6421 22 Avenue North	St Petersburg	33710			253	0	0	253		
Westgate Elementary School		3560 58 Street North	St Petersburg	33710			993	0	0	993		

**TOTALS FOR PINELLAS COUNTY**      82,812      34,341      686,654      35,014      69,818      0

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	34,341	109,681	-75,340	686,654			2,193,620	-1,506,966	

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity) (10sf pp)	Comments
Dunedin Highland MS	2	70 Patricia Ave	Dunedin	34698	N	P/A	No	468	63,840		1,596	400 pet/pbsj study
Dunedin Highland MS	3	70 Patricia Ave	Dunedin	34698	N	P/A	No	502				pbsj-study
John Hopkins Middle School	5&6	701 16 Street South	St Petersburg	33705	R	G & P	No	407	24,456		1,113	pbsj-study
Oak Grove Middle School	1 or 6	1370 S Belcher Road	Clearwater	33764	N	P/A	No	1,056	63,360		1,584	Spns-1584,Pet 550

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	2,433	3,200	-767	145,980			192,000	-46,020	

**2008 Statewide Emergency Shelter Plan**

POLK												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Alta Vista ES	9	801 Scenic Hwy	Haines City	33844	N	G/A		451	9,012		432	open 2006
Auburndale High School		1 Bloodhound Trail	Auburndale	33823			2,577	0	0	644		
Bartow Adult Day Care Center	center				R	G		0	0			
Bartow Family Health Care Center		5 Brice Boulevard	Bartow	33830	R	P	0	0	0	0		
Bartow Middle School		550 E Clover Street	Bartow	33830			988	0	0	247		
Bartow Senior High School	cafeteria	1270 S Broadway	Bartow	33830	N	G	444	540	10,777	110	495	open 2004
Blake Elementary School		510 Hartsell Avenue	Lakeland	33801			810	0	0	203		
Boone Middle School		225 S 22nd Street	Haines City	33844			455	0	0	114		
Caldwell Elementary School		141 Dairy Road	Auburndale	33823			455	0	0	110		
Chain of Lakes ES	5	7001 SR 653	Winter Haven	33884	N	G		365	7,300		327	open 2005
Chain of Lakes ES	6	7001 SR 653	Winter Haven	33884	N	G		143	2,866			open 2005
Chain of Lakes ES	3th- 2nd floor	7001 SR 653	Winter Haven	33884	N	G		567	11,332		521	open 2005
Chain of Lakes ES	3th-1st floor	7001 SR 653	Winter Haven	33884	N	G		574	11,489		521	open 2005
Chain of Lakes ES	4th- 1st floor	7001 SR 653	Winter Haven	33884	N	G		571	11,416		522	open 2005
Chain of Lakes ES	4th-2nd floor	7001 SR 653	Winter Haven	33884	N	G		562	11,248		521	open 2005
Churchwell Elementary School		8201 Park Byrd Road	Lakeland	33809			1,037	0	0	259		
Combee ES	17	2805 Morgan Combee Road	Lakeland	33805	N	G		359	7,171		342	open 2006
Crystal Lake Middle School		2410 N Crystal Lake Drive	Lakeland	33802			1,038	0	0	260		
Davenport Elementary School		8 Palmetto Street	Davenport	33837			80	0	0	20		
Denison Middle School		400 Avenue A SE	Winter Haven	33880			556	0	0	139		
Dundee ES	5				N	G		0	0			No Ehpa per county
Eastside Elementary School		1820 E Johnson Avenue	Haines City	33844			375	0	0	94		
Eloise Community Center					R	G		495	9,900			
Frostproof Elementary School		113 W 3rd Street	Frostproof	33843			1,882	0	0	456		
Frostproof Junior/Senior High School		1000 N Palm Avenue	Frostproof	33843			855	0	0	214		
Ft. Meade Junior/Senior High School		700 Edgewood Drive	Ft. Meade	33841			545	0	0	136		
George Jenkins High School		6000 Lakeland Highlands Rd	Lakeland	33813			1,435	0	0	359		
Haines City Adult Day Care Center	center				R	G		0	0			
Haines City High School	1	2800 Hornet Drive	Haines City	33844	R	G	1,050	0	0	263		
Haines City High School	3	2800 Hornet Drive	Haines City	33844	R	G		0	0			
Haines City High School	6	2800 Hornet Drive	Haines City	33844	R	G		0	0			
Haines City High School	7	2800 Hornet Drive	Haines City	33844	R	G		0	0			
Haines City High School	8	2800 Hornet Drive	Haines City	33844	N	G	904	429	6,431		559	open 2003
Haines City High School	18	2800 Hornet Drive	Haines City	33844	R	G		0	0			
Highlands Grove Elementary	3 First Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G		582	11,635		582	
Highlands Grove Elementary	3 Second Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G		585	11,709		585	
Highlands Grove Elementary	4 First Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G		582	11,630		582	
Highlands Grove Elementary	4 Second Floor	4510 Lakeland Highlands Rd	Lakeland	33813	N	G		585	11,709		585	
Highlands Grove Elementary	5 Dining	4510 Lakeland Highlands Rd	Lakeland	33813	N	G		444	8,871		444	
Jewett School of the arts	7	601 Avenue T NE	Winter Haven	33881	N	G	303	688	13,751	76	590	open 2002
Jewett School of the Arts	9	601 Avenue T NE	Winter Haven	33881	N	G		444	8,870		417	open 2006
Jewett School of the arts (Arts Clas	8	601 Avenue T NE	Winter Haven	33881	N	G		268	5,367	76	190	open 2002
Karen Siegel Academy (General cl	cafeteria	SR 557	Lake Alfred	33850	N	G	30	68	1,018		78	open 2004
Kathleen ES	11				N	G		678	13,568		651	open 2006
Kathleen High School		2600 N Crutchfield Road	Lakeland	33809			934	0	0	234		
Kathleen Middle School		3627 Kathleen Pine Road	Lakeland	33810			131	0	0	35		
Kathleen MS	3				N	G		0	0			no ehpa
Lake Alfred Elementary School		550 E Cummings Street	Lake Alfred	33850			570	0	0	143		
Lake Gibson High School	14 First Floor	7007 N Socrum Loop	Lakeland	33809	N	G		417	8,334		417	
Lake Gibson High School	14 Second Floor	7007 N Socrum Loop	Lakeland	33809	N	G		417	8,334		417	
Lake Gibson Middle School		6901 N Socrum Loop	Lakeland	33809			1,218	0	0	305		
Lake Marion Creek School	2 Gym	3055 Lake Marion Creek Rd	Poinciana	34759	N	G		512	10,231		512	

**2008 Statewide Emergency Shelter Plan**

POLK												
Lake Marion Creek School	3 First Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G		802	16,043		802	
Lake Marion Creek School	3 Second Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G		847	16,941		847	
Lake Marion Creek School	5 First Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G		846	16,911		846	
Lake Marion Creek School	5 Second Floor	3055 Lake Marion Creek Rd	Poinciana	34759	N	G		847	16,941		847	
Lake Marion Creek School	6 Café	3055 Lake Marion Creek Rd	Poinciana	34759	N	G		442	8,846		442	
Lake Region High School	1	1995 Thunder Road	Eagle Lake	33839	R	G		0	0			
Lake Region High School	2	1995 Thunder Road	Eagle Lake	33839	R	G		318	4,768		473	per pbsy study- hallways
Lake Region High School	3	1995 Thunder Road	Eagle Lake	33839	R	G		211	3,172		514	per pbsy study- hallways
Lake Region High School	4	1995 Thunder Road	Eagle Lake	33839	R	G		478	7,168		568	per pbsy study- hallways
Lake Wales High School		1009 N 6th Street	Lake Wales	33853			939	0	0	235		
Lakeland High School		726 Hollingsworth Road	Lakeland	33801			1,793	0	0	448		
Lakeland Highlands MS	3				N	G		557	11,145		557	open 2006
Laurel Elementary School	1	1851 Laurel Avenue	Poinciana	34759	N	G		387	7,732		387	
Lewis Elementary School		115 S Oak Avenue	Ft. Meade	33841			645	0	0	161		
Lian Heacmmy ES	5				N	G		484	9,676		484	open 2006
Lian Heacmmy ES	3-1st floor				N	G		609	12,172		609	open 2006
Lian Heacmmy ES	3-2nd floor				N	G		609	12,172		609	open 2006
Lian Heacmmy ES	4-1st floor				N	G		600	12,007		600	open 2006
Lian Heacmmy ES	4-2nd floor				N	G		609	12,172		609	open 2006
Lime Street Elementary School		1225 E Lime Street	Lakeland	33801				0	0	123		
Lime Street ES	9				N	G		583	11,664		500	open 2006
Lime Street ES	10				N	G		451	9,017		544	open 2006
Lincoln Avenue Academy	9				N	G		509	10,175		445	open 2006
Loughman Oaks ES	7				N	G		454	9,089		343	open 2006
McKeel Academy (gym)	14	1810 W. Parker St	lakeland	33815	N	P	727	0	0		727	open 2004
McLaughlin Middle School		800 S 4th Street	Lake Wales	33853			162	0	0	41		
Medulla Community Center					R	G		174	3,480			
Mulberry High School		NE Fourth Circle	Mulberry	33860			1,155	0	0	289		
Mulberry Middle School		300 SE 9th Avenue	Mulberry	33860			165	0	0	41		
N.E. Roberts ES (Classrms)	4				N	G		495	7,427	41	487	open 8/02
N.E. Roberts ES (Classrooms)	6				N	G		325	4,875	41	487	open 8/02
N.E. Roberts ES (Dining)	2				N	G		296	4,447	41	367	open 8/02
Padgett Elementary School		110 Leelon Street	Lakeland	33809			340	0	0	85		
Palmetto Elementary School	5	315 Palmetto Street	Poinciana	34759	N	G		0	0		797	
Palmetto Elementary School	4 Dining	315 Palmetto Street	Poinciana	34759	N	G		0	0		346	
Pinewood ES	6	1400 Gilber Street	Eagle Lake	33839	N	G		460	9,206		460	open 2006
Polk City Elementary School		125 S Bougenvilla Avenue	Polk City	33868			100	0	0	25		
Purcell ES	3				N	G		561	11,219		541	open 2006
R.B. Wagner Elementary	2				N	G		298	4,477		367	open 8/02
R.B. Wagner Elementary	4				N	G		495	7,427		487	open 8/02
R.B. Wagner Elementary	6				N	G		325	4,875		487	open 8/02
Ridge Community HS (Senior)	2 First Floor	500 W Orchid Drive	Davenport	33837	N	G		0	0		957	19,140 sq ft / 957 spaces
Ridge Community HS (Senior)	2 Second Floor	500 W Orchid Drive	Davenport	33837	N	G		0	0		783	15,661 sq ft / 783 spaces
Ridge Community HS (Senior)	3 First Floor	500 W Orchid Drive	Davenport	33837	N	G		0	0		887	17,722 sq ft / 887 spaces
Ridge Community HS (Senior)	3 Second Floor	500 W Orchid Drive	Davenport	33837	N	G		0	0		684	13,680 sq ft / 684 spaces
Ridge Community HS (Senior)	5 First Floor	500 W Orchid Drive	Davenport	33837	N	G		435	8,706		435	8,706 sq ft / 435 spaces
Ridge Community HS (Senior)	6 (Gym)	500 W Orchid Drive	Davenport	33837	N	G		0	0		742	14,835 sq ft / 742 spaces
Ridgeview Elementary	2				R	G		643	12,860			S-1523-2003
Ridgeview Elementary	6				N	G		0	0			no ehpa
Ridgeview Global Studies Academ	2	1000 Dunson Rd.	Davenport	33837	N	G	1,232	589	11,780		374	
Ridgeview Global Studies Academ	6	1000 Dunson Rd.	Davenport	33837	N	G		501	10,013		501	
River Ranch Chapel					R	G		208	4,160			
Rochelle School of Arts	15 - 1st flr	1501 MLK Avenue	Lakeland	33805	N	G	158	435	8,700	40	435	
Rochelle School of the Arts	15-2nd flr				N	G		511	10,211		511	open 2006
Roosevelt Vocational		115 E Street	Lake Wales	33853			204	0	0	51		
Sandhill Elementary	2				R	G	1,232	305	4,582		374	S-1523-2003
Sandhill Elementary	6				N	G		501	10,013		501	open 2003
Scott Lake ES	4				N	G	1,193	538	10,766		432	open 2006
Sleepy Hill ES	5	2285 Sleepy Hill Road	Lakeland	33810	N	G		484	9,676		444	open 2006
Sleepy Hill ES	3- 1st floor	2285 Sleepy Hill Road	Lakeland	33810	N	G		609	12,172		582	open 2006



2008 Statewide Emergency Shelter Plan

PUTNAM												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Browning-Pearce Elementary School	4	100 Bear Boulevard	San Mateo	32187	N	G	400	0	0	400	325	per shelter study
Crescent City High School	1	2201 S Highway 17	Crescent City	32112		G	1,063	0	0		1,000	
Interlachen Elementary School	4	251 S State Rd 100	Interlachen	32148		G	1,063	0	0		600	
Jenkins Middle School	5	1100 N 19th Street	Palatka	32177		G	600	0	0		600	
Kelley Smith ES	6	141 Kelly Smith Road	Palatka	32177	R	G		920	18,400			
Middleton Burney ES	1	1020 Huntington Road	Crescent City	32112	R	G		805	16,100			
Ochwilla Elementary School	4	299 N SR 21	Melrose	32640	N	G & A	325	260	3,894		325	sf per shelter study
Palatka High School	1	302 Mellon Road	Palatka	32177		G	1,000	0	0		1,000	
Price Martin Community Center	1	220 N 11th Street	Palatka	32177		G	249	0	0		100	
QI Roberts Middle School	2	901 SR100	Florahome	32140	N	G	216	193	4,321		216	per shelter study
QI Roberts Middle School	5	901 SR100	Florahome	32140	N	G	424	424	8,485		424	per shelter study
QI Roberts Middle School	6	901 SR100	Florahome	32140	N	G	234	194	4,687		234	per shelter study
<b>TOTALS FOR PUTNAM COUNTY</b>							<b>5,574</b>	<b>2,796</b>	<b>55,887</b>	<b>400</b>	<b>4,824</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	2,796	9,017	-6,221	55,887			180,340	-124,453				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
K. Smith School- New bldg TBD	12	141 Kelly Smith Road	Palatka	32177	N	P	yes- Bldg 12	144	8,677		144	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	144	163	-19	8,640			9,780	-1,140				

2008 Statewide Emergency Shelter Plan

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SANTA ROSA												
Name	Bldg. #	Address	City	Zip	Retrofitte d (R) or New Construc tion (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People <i>(Meets ARC 4496)</i>	Total Risk Capacity (ft <sup>2</sup> ) <i>(Meets ARC 4496)</i>	Risk Capacity In People <i>(Does not Meet ARC 4496 or Not Yet Surveyed)</i>	Local Planned Usage (reported capacity)	Comments
Avalon Middle School	37	5445 King Arthur's Way	Milton	32583	N	G	2832	352	8,855	2832	1846	
Avalon Middle School	37	5445 King Arthur's Way	Milton	32583				1,494	26,855			
Bennet C. Russel ES	all	3740 Excalibur Way	Milton	32583	N	G		7,061	141,218			
Berry Hill Elementary School		4900 Berry Hill Road	Milton	32570		P	250	0	0	250	250	
Chumuckla Community Center					R	G		140	2,800			
City of Milton Community Center		5629 Byron	Milton	32570	N	G	612	383	7,040			
Dixon Intermediate School	33	5540 Education Road	Pace	32571	R	G	2,656	2,193	37,469	2,656		
King Middle School		5928 Stewart Street	Milton	32570			1,717	0	0	1,717		
Milton High School		5445 NW Stewart Street	Milton	32570			1,653	214	4,280	1,653		
Thomas L. Sims Middle School	31	5500 Education Drive	Pace	32571	R	G	2,567	0	0	2,567		
<b>TOTALS FOR SANTA ROSA COUNTY</b>							<b>12,287</b>	<b>11,837</b>	<b>228,517</b>	<b>11,675</b>	<b>2,096</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	11,837	7,793	4,044	228,517			155,860	72,657				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Sims MS	31	5500 Education Drive	Pace	32571			No	704	42,262		351	
Milton Comm. Ctr - NOT USED		5629 Byron	Milton	32570			Yes					
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	704	127	577	42,240			7,620	34,620				



2008 Statewide Emergency Shelter Plan

SARASOTA												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Alta Vista ES		1050 South Euclid Avenue	Sarasota	34237			310	0	0	0	0	
ARC Chapter		2001 Cantu Court	Sarasota	34232	R		200	0	0	200	200	for sheltering responders
Ashton Elementary School	1	5101 Aston Road	Sarasota	34223	R	G	403	0	0	844	0	per report open span/ unreinf. 2002/2004 reroof designed for 130mph
Ashton Elementary School	2	5101 Aston Road	Sarasota	34223	R	G	410	0	0	793	0	no report on this bldg circa 2003
Bishop Niven	Dome A	4380 Fruitville Road	Sarasota	342436	N/R		0	1,085	21,701		1085	confirmed 2005
Bishop Niven	Dome B	4380 Fruitville Road	Sarasota	342436	N/R		0	779	15,580		779	confirmed 2005
Bishop Niven	Dome E	4380 Fruitville Road	Sarasota	342436	N/R		0	623	12,455		623	confirmed 2005
Bishop Niven	Dome F	4380 Fruitville Road	Sarasota	342436	N/R		0	623	12,455		623	confirmed 2005
Booker High School		3201 N Orange Avenue	Sarasota	34234			439	0	0	460		
Booker Middle School	6	2250 Myrtle Street	Sarasota	34234	R	G	314	475	8,332			
Booker Middle School	7	2250 Myrtle Street	Sarasota	34234	R	G	400	400	8,125		400	circa 2002
Booker Middle School	14	2250 Myrtle Street	Sarasota	34234	N	G	217	1,062	21,240		0	Built 2004
Brookside Middle School	5	3636 S Shade Avenue	Sarasota	34293		G	217	435	8,700	0	435	circa 2003
Brookside Middle School	9	3636 S Shade Avenue	Sarasota	34293		G	175	351	7,020		351	
Brookside Middle School	3 north	3636 S Shade Avenue	Sarasota	34293		G	336	0	0		0	
Brookside Middle School	3 south	3636 S Shade Avenue	Sarasota	34293		G	231	0	0	462	462	no information
Brookside Middle School	6(Gym)	3636 S Shade Avenue	Sarasota	34293		G/A	314	0	0		0	locker rooms used for pets
Brookside Middle School (2000 construct)	4	3636 S Shade Avenue	Sarasota	34293	R	G	273	1,076	19,624		1,076	
Cranberry Elementary	1	2775 Shallimar Terrace	North Port	34286	N	P	1571	0	0		1,047	SpNS see below
Elementary School # 5			North Port		N	G		0	0			Completion Expected 2009
Emma Booker Elementary School	1,3,4,5,6,8	2350 MLK Jr. Way	Sarasota	34234		G	962	0	0	0	0	
Fruitville Elementary School	5,6,8,9	601 Honore Avenue	Sarasota	34232			865	0	0	381	0	no information
Garden Elementary School	1	700 Center Road	Venice	34293	R	G	631	0	0	750		questions on unreinforced walls and open spans
Garden Elementary School	4(Café)	700 Center Road	Venice	34293	R	G	200	0	0		0	
Glennallen Elementary	7	7050 Glenallen Boulevard	North Port	34287	R	G	270	540	10,800		540	
Glennallen Elementary	8	7050 Glenallen Boulevard	North Port	34287	R	G	230	461	9,220		461	
Glennallen Elementary	#1, Sec 400	7050 Glenallen Boulevard	North Port	34287	R	G	266	428	8,078		428	
Glennallen Elementary	#1, Sec 300	7050 Glenallen Boulevard	North Port	34287	R	G	225	428	8,547		428	
Gocio Elementary School	3	3450 Gocio Road	Sarasota	34235	R	G	138	0	0			
Gocio Elementary School	5	3450 Gocio Road	Sarasota	34235	R	G	217	0	0			
Gulf Gate Elementary School	1	6500 Lockwood Ridge Rd	Sarasota	34231	N	G	3,106	2,933	58,660		2,933	
Heron Creek Middle School	3	6501 W. Price	North Port	34287	N	G	676	1,353	27,060		1,353	
Heron Creek Middle School	4	6501 W. Price	North Port	34287	N	G	621	1,243	24,860		1,243	
Heron Creek Middle School	5	6501 W. Price	North Port	34287	N	G	234	469	9,380		469	
Heron Creek Middle School	6	6501 W. Price	North Port	34287	N	G/A	454	0	0		0	
Heron Creek Middle School	7	6501 W. Price	North Port	34287	N	G	220	0	0		0	
Heron Creek Middle School	10	6501 W. Price	North Port	34287	N	G	241	482	9,640		482	
Lakeview Elementary School	#1, Sec 300	7299 Proctor Road	Sarasota	34241	R	G	216	428	8,547		432	
Lakeview Elementary School	#1, Sec 400	7299 Proctor Road	Sarasota	34241	R	G	203	404	8,078		406	
Lakeview Elementary School	#1, Sec 500	7299 Proctor Road	Sarasota	34241	R	G	197	397	7,949		393	
Lamarque Elementary School	1	3415 Lamarque Avenue	North Port	34286	N	P	1912	0	0		1,275	SpNS see below
Laurel Middle School	4	1900 East Laurel Road	Laurel	34275	R	G	174	0	0	1,202		
Laurel Middle School	6	1900 East Laurel Road	Laurel	34275	R	G	191	0	0			
Laurel Middle School	3 (Café)	1900 East Laurel Road	Laurel	34275	R	G	244	0	0		0	
Laurel Middle School	5(Gym)	1900 East Laurel Road	Laurel	34275	R	G	188	0	0		0	
McIntosh Middle School		701 S McIntosh Road	Sarasota	34232			1,750	0	0	500		
Middle School "EE"			North Port		N	G		0	0			Construction Scheduled to begin 2/07
North Porth High School	2	6400 West Price Blvd	North Port	34287	N	G	670	0	0		0	
North Porth High School	3	6400 West Price Blvd	North Port	34287	N	G/A	504	1,009	20,180		1,009	
North Porth High School	4	6400 West Price Blvd	North Port	34287	N	G	402	336	6,720		336	
North Porth High School	5	6400 West Price Blvd	North Port	34287	N	G	423	769	15,380		769	
North Porth High School	6	6400 West Price Blvd	North Port	34287	N	G	240	0	0		0	
North Porth High School	7	6400 West Price Blvd	North Port	34287	N	G	390	779	15,580		779	

2008 Statewide Emergency Shelter Plan

SARASOTA												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
North Porth High School	8	6400 West Price Blvd	North Port	34287	N	G	434	869	17,380		869	
Oak Park School	4	7285 Proctor Road	Sarasota	34241	R	P		0	0			
Oak Park School	2A	7285 Proctor Road	Sarasota	34241	R	P		0	0	1,597		
Oak Park School	2B	7285 Proctor Road	Sarasota	34241	R	P		0	0			
Oak Park School	3A	7285 Proctor Road	Sarasota	34241	R	P		0	0			
Oak Park School	3B	7285 Proctor Road	Sarasota	34241	R	P		0	0			
Philippi Shores	2	4747 S. Tamiami Trail	Sarasota	34231	N	G	1145	1,835	36,700		1,835	2005
Pineview School	1	501 Old Venice Road	Osprey	34229	R	G	165	261	3,919	1,932	330	
Pineview School	2	501 Old Venice Road	Osprey	34229	R	G	134	290	4,363		269	
Pineview School	3	501 Old Venice Road	Osprey	34229	R	G	139	0	0			
Pineview School	4	501 Old Venice Road	Osprey	34229	R	G	149	0	0			
Pineview School	5	501 Old Venice Road	Osprey	34229	R	G/A	26	26	250		0	Pets Only
Pineview School	8	501 Old Venice Road	Osprey	34229	R	G	199	0	0			
Pineview School	10	501 Old Venice Road	Osprey	34229	R	G	72	0	0			
Pineview School	11	501 Old Venice Road	Osprey	34229	R	G	165	267	4,001		331	
Pineview School	12	501 Old Venice Road	Osprey	34229	R	G	139	0	0			
Pineview School	16	501 Old Venice Road	Osprey	34229	N	G	550	1,101	22,020		1,101	
Riverview High School		1 Ram Way	Sarasota	34231	N	G		2,574	51,480		2,574	Completion Expected 2009
Riverview High School		1 Ram Way	Sarasota	34231			500	0	0			
Sarasota County Technical Center		4748 Beneva Road	Sarasota	34233			300	0	0	300		
Sarasota High School	13	1000 South School Avenue	Sarasota	34237	N/R	G	1,356	2,387	40,525		2,387	
Sarasota High School	14	1000 South School Avenue	Sarasota	34237	N/R	G	1,209	2,272	47,612		2,272	
Sarasota Middle School	4	4826 Ashton Road	Sarasota	34233	R	G	103	350	5,142		207	
Sarasota Middle School	6	4826 Ashton Road	Sarasota	34233	R	G	165	330	7,864		330	
Sarasota Middle School	7	4826 Ashton Road	Sarasota	34233	R	G	180	306	4,793		306	
Sarasota Middle School	8	4826 Ashton Road	Sarasota	34233			200	0	0			
Sarasota Middle School	9	4826 Ashton Road	Sarasota	34233			121	0	0			
Sarasota Middle School	10 & 11	4826 Ashton Road	Sarasota	34233			242	0	0			
Sarasota Middle School	3 & 5	4826 Ashton Road	Sarasota	34233			393	0	0		0	
Southside Elementary	4	1901 Webber	Sarasota	34239	N	G	673	1,346	26,920		1,346	2005
Tatum Ridge Elementary	3	4100 Tatum Road	Sarasota	34240	N	P	1,637	0	0		673	SpNS see below
Taylor Ranch Elementary School	1	2500 Taylor Ranch Road	Venice	34293	R	G	154	0	0			
Taylor Ranch Elementary School	3	2500 Taylor Ranch Road	Venice	34293			109	0	0		0	
Taylor Ranch Elementary School	4	2500 Taylor Ranch Road	Venice	34293	R	G	77	0	0			
Taylor Ranch Elementary School	5	2500 Taylor Ranch Road	Venice	34293	R	G	124	275	6,863		249	
Taylor Ranch Elementary School	6	2500 Taylor Ranch Road	Venice	34293	R	G	261	523	8,097		523	
Toledo Blade ES	1	1201 Geranium Avenue	North Port	34287	R	G		308	4,992		308	
Toledo Blade ES	3	1201 Geranium Avenue	North Port	34287	R	G		190	2,849		235	
Toledo Blade ES	4	1201 Geranium Avenue	North Port	34287	R	G		278	4,163		293	
Toledo Blade ES	5	1201 Geranium Avenue	North Port	34287	R	G		425	8,679		288	
Toledo Blade ES	6	1201 Geranium Avenue	North Port	34287	R	G		416	7,235		519	
Toledo Blade ES	10	1201 Geranium Avenue	North Port	34287	R	G		296	5,920		296	
Tuttle Elementary School	3	925 N Brink Avenue	Sarasota	34237			155	0	0	0	0	
Tuttle Elementary School	1&2	925 N Brink Avenue	Sarasota	34237	N/R	G	1,008	1,883	37,660		1,883	per report 34994 sf in bldg 2
Venice Area Middle School	1 & 6	1900 Center Road	Venice	34293			405	0	0	600		
Venice Community Center	1	326 Nokomis Ave South	Venice		R	G	354	709	14,180	709	709	no information
Venice Elementary - 8/1/05	1	150 Miami Ave East	Venice	34285	N	G	1293	0	0		0	not an EHPA 2005
Wilkinson Elementary School 8/1/05	6	3400 Wilkinson Road	Sarasota	34231	N	G	765	1,531	30,620		765	2005- Planned for use as Alt EOC
<b>Totals for Sarasota County</b>							<b>38,171</b>	<b>40,416</b>	<b>788,138</b>	<b>10,730</b>	<b>41,715</b>	
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	40,416	52,105	-11,689	788,138			1,042,100	-253,962				
<b>Special Needs Storm Shelters</b>												

2008 Statewide Emergency Shelter Plan

SARASOTA												
Name	Bldg. #	Address	City	Zip	Retro fitted (R) or New Const ruction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	LOCAL PLANNED USAGE	Comments
Oak Park School (marginal, 2nd Tier)		7285 Proctor Road	Sarasota	34241	R	P	Yes	525	31,500		525	
(North) Cranberry Elementary	1	2775 Shallimar Terrace	North Port	34286	N	P	No	1,047	62,840		1,047	2005, county provided capacity
Tatum Ridge ES (retrofit underway)	3	4100 Tatum Ridge RD	Sarasota	34240	N	P	No	1,091	65,460		1,091	county provided capacity- ready Sept 2006
LaMarque Elementary (Elementary H)	1	3415 Lamarque Ave	North Port	34286	N	P	No	1,275	76,500		1,275	county provided capacity- ready Sept 2006
									0			
									0			
									0			
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	3,938	3,400	538	236,280			204,000	32,280				

2008 Statewide Emergency Shelter Plan

SEMINOLE

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bentley ES	1	2190 Oregon Avenue	Sanford	32771	R	P, A	100	0				SpNS see below
Crystal Lakes ES	1	231 Rinehart Road	Lake Mary	32746	N	G	500	500	10,000		500	
English Estates Elementary School - Bldg	100	299 Oxford Road	Fern Park	32370	R	G		692	17,300		1,000	lrdm confirmed
Geneva Elementary School - Bldg 4	4	275 1st Street	Geneva	32372	R	G		116	2,900		275	lrdm confirmed
Highlands Elementary School	1	1600 Shepard Road	Winter Springs	32708	R	P	500	0			212	lrdm confirmed
John Evans Elementary	1	141 Academy Drive	Oviedo	32765	R	G	500	818	20,458		424	lrdm confirmed
Lake Brantley High School	6	991 Sand Lake Road	Altamonte Springs	32714	R	G		671	13,414		666	
Lake Brantley High School	7	991 Sand Lake Road	Altamonte Springs	32714	R	G		927	18,534		666	
Lake Brantley High School	8	991 Sand Lake Road	Altamonte Springs	32714	R	G	2,000	802	16,034		668	retrofit done 8/07
Lake Mary High School	Gym/Café	655 Longwood/Lake Mary Rd	Lake Mary	32746	R	G	2,000	1,810	45,239		1,200	lrdm confirmed
Lawton Chiles MSI	485'	3225 Lockwood Boulevard	Oviedo	32765	R	G	1,000	1,000	13,046		750	lrdm confirmed
Layer ES	Café	SR 419	Winter Springs	32708	R	P	100	0	0		100	SpNS see below-retrofit done 8/07
Lyman High School	7	865 CR 427 South	Longwood	32750	R	G	2,000	999	14,981		1,500	lrdm confirmed
Midway ES	1	2251 Jitway	Sanford	32771	N	G	500	500	10,000		500	
Millenium MS	3&5	21 lakeview Drive	Sanford	32773	R	G	2,000	648	12,961		650	lrdm confirmed
Walker ES	Café	3101 Snowhill	Chuluota	32766	R	G	500	400	8,000		400	retrofit done 8/07
Winter Springs High School	4	130 Tuskawilla Road	Winter Springs	32708	R	G		896	17,964		440	retrofit done 8/07
Winter Springs High School	5	130 Tuskawilla Road	Winter Springs	32708	R	G		873	17,460			
Winter Springs High School	6	130 Tuskawilla Road	Winter Springs	32708	R	G		873	17,460			
Winter Springs High School	7	130 Tuskawilla Road	Winter Springs	32708	R	G	2,000	1,000	17,460			
								0				
<b>TOTALS FOR SEMINOLE COUNTY</b>							<b>13,700</b>	<b>13,525</b>	<b>273,211</b>	<b>0</b>	<b>9,951</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	13,525	3,519	10,006	273,211			70,380	202,831	

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNS Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Bentley ES	1	2190 Oregon Avenue	Sanford	32771	R	P, A	No	141	8,479		100	
Highlands ES	1	1600 Shepard Road	Winter Springs	32708			No	141	8,479		100	
Layer ES	Café	SR 419	Winter Springs	32708			No	133	6,000		100	
									0			
									0			
									0			

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	415	67	348	24,900			4,020	20,880	

**2008 Statewide Emergency Shelter Plan**

**ST. JOHNS**

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Allen Nease HS		10550 Ray Road	St. Augustine	n/a			400	0	0	800		
Bartram Trail High School	4-Gym	2050 Roberts Road	Jacksonville	n/a	N	G	250	1,098	27,455	0	500	
Cunningham Creek Elementary Sch	2,3,4	1205 Roberts Road	St. Augustine	32259	R	G	400	1,200	20,788	0	1,200	
Durbin Creek Elementary	1	3810 Race Track Road	Jacksonville	32259	N	G	200	1,788	44,688		400	
First Coast Technical Institute	C	2980 Collins Avenue	St. Augustine	n/a	R	P	125	0	0			1993 portion of bldgs
Fruit Cove Elementary	Gym		St. Augustine		N	G		1,122	28,060		500	
Gamble Rogers Middle School		6250 US 1 South	St. Augustine	32086			400	0	0	0		
Hartley Elementary School		260 Riveria Boulevard	St. Augustine	32086			167	0	0	335		
Hastings Community Center	Aud				R	P		0	0		0	
Hickory Creek ES		781 Greenbriar Rd	Jacksonville	32259	N	G		500	10,000		500	Ehpa
Julington Creek Elementary		2316 Racetrack Road	St. Augustine	n/a			300	0	0	600		
Mill Creek Elementary School	2,3,4	3750 Nine Mile Road	St. Augustine	32092	R	G	400	1,200	20,202	0	1,200	
Murray Middle School		150 N. Holmes Blvd	St. Augustine	n/a			94	0	0	189		
Osceola Elementary School	2,4	655 SR 207	St. Augustine	32095	R	G	400	929	13,930	0	1,200	
Otis Mason Elementary School	2,3,4	SR 207 & I-95	St. Augustine	32086	R	G	400	1,200	19,926	0	1,200	
Pedro Menendez High School	4-Gym	600 SR-206 West	St. Augustine	n/a	N	G	250	1,233	30,823	0	500	
Sebastian Middle School		2955 Lewis Speedway	St. Augustine	n/a			400	0	0	800		
Southwood ES	1	Cowpen Branch Rd and S	Hastings	32033	N	G		500	10,000		500	Ehpa
St. Augustine High School		3205 Varella Avenue	St. Augustine	n/a			400	0	0	800		
St. Johns County Agricultural Center		3125 Agricultural Center D	St. Augustine	32092			0	0	0			
Switzerland Point Middle School		146 N Orange Street	St. Augustine	32095			400	0	0	0		
Timberlin Creek ES	1	CR210 and Greenbriar RD	Jacksonville	32259	N	G		500	10,000		500	EHPA
Webster Elementary		420 North Orange Street	St. Augustine	n/a			40	0	0	80		
								0	0			
<b>TOTALS FOR ST. JOHNS COUNTY</b>							<b>5,026</b>	<b>11,270</b>	<b>235,872</b>	<b>3,604</b>	<b>8,200</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/Deficit (ft2)	Result		
Storm Category 4/5	11,270	9,369	1,901	235,872			187,380	48,492			

**Special Needs Storm Shelters**

Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage	Comments
First Coast Tech "C" (1993) 3rd Tier	C	2980 Collins Avenue	St. Augustine	n/a			No	0	0	146	146	
Hastings Community Center 2nd Tier	Aud				R	P		266	16,000		133	
Pacetti Bay MS (Aug 2006)		245 Meadowlark Lane	St. Augustine				No	500	60,000		500	
St. Johns County Agricultural Center 1st Tier		3125 Agricultural Center D	St. Augustine	32092				0	0		36	
								0	0			

2008 Statewide Emergency Shelter Plan

ST. LUCIE

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bayshore ES	1	1661 SW Bayshore Blvd	Port St. Lucie	34984	R	G	100	499	12,481	150	220	
C.A. Moore Elementary School	9-Café	827 N 29th Street	Ft. Pierce	34947	R	G	0	677	16,917	0	412	
Dale Cassins School		1901 S 11th Street	Ft. Pierce	34947			100	0	0	0		
Dan Mc Carty MS	café	1201 Mississippi	Ft. Pierce	34950	R	P		0	0			Open July 26 05
Fairlawn Elementary School		1900 S 33rd Street	Ft. Pierce	34947			100	0	0	100		
Floresta Elementary School	1	3201 S 25th Street	Ft. Pierce	34950	R	G	100	770	19,247	100	411	
Forest Grove Middle School		1501 SE Floresta Drive	Port St. Lucie	34983			0	0	0	0		
Frances K. Sweet Elementary School		1400 Avenue Q	Ft. Pierce	34950			120	0	0	120		
Ft. Pierce Central High School		1101 Edwards Road	Ft. Pierce	34982			100	0	0	100		
Human Resources Dev Center	Gym				R	G		350	7,000			
Lakewood Park Elementary School	1	7800 Indrio Road	Ft. Pierce	34951	R	G	150	605	15,118	200	215	
Lincoln Park Academy		1806 Avenue	Ft. Pierce	34950			100	0	0	100		
Manatee Elementary School	1,3,6,7	1450 SW Heatherwood	Port St. Lucie	34986	R	G	300	361	9,022	350	215	corridors and café only-plywood shuttes used locally
Mariposa Elementary School	1,3,6,7	2620 SE Maripose Avenue	Port St. Lucie	34952	R	G	400	361	9,022	475	225	corridors and café only-plywood shuttes used locally
Morningside Elementary School	1	2300 SE Gowin Drive	Port St. Lucie	N/A	R	G	160	543	13,566	200	215	corridors and café only-plywood shuttes used locally
Northport Middle School		250 NW Floresta	Port St. Lucie	34983			250	0	0	250		
Oak Hammock K-8 School	1	1251 SW California Blvd	Port St. Lucie	34953	N	G		1,521	30,425			PER PBSJ REPORT
Oak Hammock K-8 School	2	1251 SW California Blvd	Port St. Lucie	34953	N	G		1,576	31,515			PER PBSJ REPORT
Oak Hammock K-8 School	4	1251 SW California Blvd	Port St. Lucie	34953	N	G		513	12,826		500	PER PBSJ REPORT
Oak Hammock K-8 School	5	1251 SW California Blvd	Port St. Lucie	34953	N	G		487	9,738			PER PBSJ REPORT
Parkway Elementary School	1	7000 NW Selvitz Road	Ft. Pierce	34981	R	G	100	417	10,418	150	220	
Port St. Lucie Community Center		2195 SE Airoso Boulevard	Port St. Lucie	34984		P	120	220	4,400	120	220	
Port St. Lucie High School		1201 SE Leennard Road	Port St. Lucie	34952			150	0	0	150		
Savanna Ridge ES	1-café	6801 Lennard Rd	Port St. Lucie	34982	R	G	516	677	16,917		516	
Southport Middle School		2420 SE Morningside	Port St. Lucie	34952			100	0	0	100		
St. Lucie Civic Center		2300 Virginia Avenue	Ft. Pierce	34950		P	0	0	0	500		
St. Lucie West Middle School		1001 SW Juliet Avenue	Port St. Lucie	34986			450	0	0	450		
Treasure Coast HS		1000 SW Darwin BLVD	Port St. Lucie		N	G	500	1,875	46,874	500		
Village Green Elementary School	1	1700 Lennard Road	Port St. Lucie	34952	R	G	100	348	8,706	150	220	
Weatherbee ES	café	800 E. Weatherbee Rd	Port St. Lucie	34982	R	G	576	975	24,385		576	
West Gate K-8		1050 SW Cashmere Blvd	Port St. Lucie		N	G	500	500	10,000	500		
Westwood High School	1	1801 Panther Lane	Ft. Pierce	34947	R	G	500	1,733	43,326	500	632	verified by Irdm
White City Elementary School		905 W 2nd Street	Ft. Pierce	34982			50	0	0	50		
Windmill Point Elementary School	1	700 Darwin Boulevard	Port St. Lucie	34983	R	G	100	377	9,435	150	220	
								0	0			
<b>TOTALS FOR ST. LUCIE COUNTY</b>							<b>5,742</b>	<b>15,385</b>	<b>361,338</b>	<b>5,465</b>	<b>5,017</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	15,385	8,747	6,638	361,338	174,940	186,398	

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip	Emergncy Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	local planned usage	Comments
Dan McCarty MS	21-café	1201 Mississippi	Ft. Pierce	34950	No	166	11,161		166	
New FY08/09 1508A multi use Bldg - Auditorium/recreation center					Yes	334	20,040		334	
Port St. Lucie Community Center		2195 South East Airoso Bl	Port St. Lucie	34983	yes	166	9,960		166	

2008 Statewide Emergency Shelter Plan

ST. LUCIE

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	666	662	4	39,960			39,720	240			

2008 Statewide Emergency Shelter Plan

SUMTER												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Bushnell Community Center		Highway 301& Belt Avenue	Bushnell	33513			60	0	0	100		
Bushnell Elementary School		218 W Flannery	Bushnell	33513			125	0	0	125		
Croom Road Baptist Church		12016 CR 681	Webster	33597			100	0	0	100		
DAV Building		CR 489	Lk Panasoffkee	33538			200	0	0	200		
First Baptist Church of Oxford		Creek Road & Highway 30	Oxford	34484			250	0	0	250		
Grant Lake Baptist Church		1444 CR 478 A	Webster	33597			140	0	0	140		
Lake Panasoffkee Elementary School		790 CR 482 North	Lk Panasoffkee	33538			100	0	0	100		
Lake Panasoffkee First Baptist Church		802 CR 470	Lk Panasoffkee	33538			100	0	0	100		
Lake Panasoffkee United Methodist Church		589 North CR 470	Lk Panasoffkee	33538			100	0	0	100		
North Sumter Intermediate School	18	300 East Huey Street	Wildwood	34785	R	G	125	178	3,059	150	178	lrdm confirmed/per report 3565 sf
North Sumter Primary School	18	104 North Warfield Street	Wildwood	34785	R	G	125	0	0	178		Questions on roof span - 68 ft.
South Sumter High School		7060 N Main St/SR 475	Bushnell	33513			450	0	0	450		
South Sumter Middle School		733 NW 10th Avenue	Webster	33597			250	0	0	250		
VFW		CR 476B	Nobleton	34661			100	0	0	100		
Villages Middle School		450 Village Campus/CR 4	Villages	32162	N	G	200	200	4,000	0	200	
Webster Elementary School	14	349 South Market Blvd	Webster	33597	R	G	150	0	0	138		Questions on roof span - 68 ft.
Wildwood Community Center	1	700 Huey Street	Wildwood	34785	N	G	150	166	2,490	81	477	circa 2002
Wildwood High School		700 Huey Street	Wildwood	34785			450	0	0	450		
Wildwood Middle School		200 Cleveland Street	Wildwood	34785			250	0	0	200		
							0	0	0			
<b>TOTALS FOR SUMTER COUNTY</b>							<b>3,425</b>	<b>544</b>	<b>9,549</b>	<b>3,212</b>	<b>855</b>	
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	544	6,008	-5,464	9,549			120,160	-110,611				
Special Needs Storm Shelters												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNS Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
TBD									0			
									0			
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	0	575	-575	0			34,500	-34,500				



2008 Statewide Emergency Shelter Plan

SUWANNEE												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Assembly of God Church		26471 SR 247	Branford	32008			75	0	0			
Branford Community Center		Jenkins Ave (Hatch Park)	Branford	32008			100	0	0			
Branford Elementary School		26801 SR 247	Branford	32008	N	G	575	1,709	34,182		287	Whole school Ehpa per school-capacity per classrooms/dining/hallways
Branford High School		Governor's Street	Branford	32008			200	0	0		215	
Church of Jesus Christ of Latter Day Saints		1310 Irvin Avenue SW	Live Oak	32060		G	300	0	0			
First Advent Christian Church		699 Pinewood Way	Live Oak	32060			100	0	0			
First Baptist Church of Branford		503 Suwannee Avenue	Branford	32008			150	0	0			
First Baptist Church of Live Oak		401 Howard Street West	Live Oak	32060			300	0	0			
First Presbyterian Church		421 White Avenue	Live Oak	32060			100	0	0			
First United Methodist Church		311 Ohio Avenue South	Live Oak	32060			300	0	0			
Live Oak Church of God		9828 US 129	Live Oak	32060			150	0	0			
Mt. Olive Baptist Church		5314 98th Terrace	Wellborn	32094		G	75	0	0			
North Florida Christian Center		21670 West Shekinah Pl	BObrien	32071			75	0	0			
San Juan Mission Church		304 Plant Avenue SE	Branford	32008			75	0	0			
St. Francis Xavier Church		928 Howard Street East	Live Oak	32060		G	200	0	0			
St. Luke Episcopal Church		1391 Eleventh Street SW	Live Oak	32060			200	0	0			
Suwannee ES (new school) [0060]	1	1748 South Ohio Ave	Live Oak	32060	N	G		1,775	35,509		400	Whole school Ehpa per school-capacity per classrooms/dining/hallways
Suwannee High School (Suwannee Snr High) [0043]		1314 Pine Ave SW	Live Oak	32064		G	1,000	0	0		75	
Suwannee Middle School [0051]		1730 Walker Street SW	Live Oak	32064		G	700	0	0		130	
Suwannee Primary School (Suv Elem East) [0011]	361/001	1625 Walker Ave SW	Live Oak	32064	R	G/P	600	0	0		180	0
Suwannee-Hamilton Technical Center [0012]		415 Pinewood Dr SW	Live Oak	32064		G	400	0	0		60	
<b>TOTALS FOR SUWANNEE COUNTY</b>							<b>5,675</b>	<b>3,484</b>	<b>69,691</b>	<b>0</b>	<b>1,347</b>	<b>0</b>
<b>Year 2008</b>	<b>Shelter Capacity In People</b>	<b>Shelter Demand In People</b>	<b>Surplus/ Deficit In People</b>	<b>Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	3,484	5,053	-1,569	69,691			101,060	-31,369				
<b>Special Needs Storm Shelters</b>												
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Suwannee Intermediate School (Suv.ESWest) [0042]	Caf & Multi-Purp	1419 Walker Ave. SW	Live Oak	32,064	R	P	Not yet	50	3,000		50	
<b>Year 2008</b>	<b>SpNs Shelter Capacity In Spaces (meets ARC 4496)</b>	<b>SpNs Shelter Demand In Spaces</b>	<b>Surplus/ Deficit In Spaces</b>	<b>SpNs Shelter Capacity (ft2)</b>			<b>Shelter Demand (ft2)</b>	<b>Surplus/ Deficit (ft2)</b>	<b>Result</b>			
Storm Category 4/5	50	73	-23	3,000			4,380	-1,380				

2008 Statewide Emergency Shelter Plan

TAYLOR

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Elks Lodge		Woods Creek Road	Perry	32348			250	0	0	100		0
Fellowship Baptist Church		305 Puckett Road	Perry	32348			70	0	0	70		0
Forest Capital Hall		203 Forest Park Dr	Perry	32349			350	0	0			
Mormon Church		1st Avenue	Steinhatchee	32359			40	0	0	40		0
Perry Primary School		400 North Clark Street	Perry	32348			275	0	0	275		0
Steinhatchee School		900 Johnson-Stripping Rd	Perry	32348			70	0	0	70		0
Taylor County High School		601 E. Lafayette Street	Perry	32348			375	0	0	375		0
Taylor County Middle School		1209 1st Avenue SE	Steinhatchee	32359			265	0	0	265		0
Taylor County ES (NEW)	3	1600 East Green St	Perry	32347	N	G		796	13,310	265	796	
Taylor County ES (NEW)	4	1600 East Green St	Perry	32347	N	G		380	5,701	265	401	
Taylor County ES (NEW)	5	1600 East Green St	Perry	32347	N	G		438	6,840	265	438	
Taylor County ES (NEW)	6	1600 East Green St	Perry	32347	N	G		810	12,143	265	875	
Taylor Vocational School		3233 S US Highway 19	Perry	32348			200	0	0	265		0
Covenant Christian Fellowship Church		6050 Pucket Rd	Perry	32348		G	80	0	0	265		
								0	0	265		
<b>TOTALS FOR TAYLOR COUNTY</b>							<b>1,975</b>	<b>2,424</b>	<b>37,994</b>	<b>2,785</b>	<b>2,511</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)		Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	2,424	2,276	148	37,994		45,520	-7,526	

Special Needs Storm Shelters

Name	Bldg #	Address	City	Zip		Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)
Uses Regional Shelter								0		
								0		

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)		Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	0	135	-135	0		8,100	-8,100	

2008 Statewide Emergency Shelter Plan

UNION													
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Lake Butler ES	21	800 SW 6th Street	Lake Butler	32054	R	G	100	0	0	0			host shelter
Lake Butler Agricultural Center Building		Hwy 231 South	Lake Butler	32054			30	0	0	0			
Lake Butler Middle School	3,5,6	120 SW 6th Street	Lake Butler	32054	R	G	150	939	23,465	150	424	HMGP	funded 424
Lake Butler Middle School Gym		801 S Lake Avenue	Lake Butler	32054			50	0	0	50			
NFRC-DOC Training Building		Hwy 238 West	Providence	32083			30	0	0	30			
Providence Community Center		Hwy 121 North	Raiford	32054			75	0	0	75			
Raiford Community Center		Hwy 121/16	Raiford	32054			50	0	0	0			
RMC-DOC Training Bldg		15540 SW 158th LN	Lake Butler	32054		G		0	0	75		S	DOC Families only
UCI-DOC Training Building		Hwy 121 South	Worthington	32697			50	0	0	75		S	DOC Families only
Union County High School	21	1000 S Lake Avenue	Lake Butler	32054	N	G	1,000	169	3,386	0	1,000	L, S	
Union County High School	23	850 S Lake Avenue	Lake Butler	32054	N	G	200	143	2,854	0	200		
Union County High School Physical Education	24	150 SW 6th Street	Lake Butler	32054	N	P	424	0	0	0		L, S	Special needs only
TOTALS FOR UNION COUNTY							2,159	1,251	29,705	455	1,624		0
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result				
Storm Category 4/5	1,251	1,162	89	29,705			23,240	6,465					
Special Needs Storm Shelters													
Name	Bldg #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Funding Source: Local (L), State (S), Federal (F), and Program Name	Comments
Union County High School Physical Education	24	150 SW 6th Street	Lake Butler	32054			Yes	33	2,010		45		
									0				
									0				
									0				
									0				
									0				
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result				
Storm Category 4/5	33	80	-47	1,980			4,800	-2,820					

2008 Statewide Emergency Shelter Plan

VOLUSIA												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet - Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Allen Green Civic Center								600	12,000		600	funded 600
Atlantic High School	1-Café	1250 Reed Canal	Port Orange	32171			790	0	0	0		unshuttered windows
Atlantic High School	3-ESE CR	1250 Reed Canal	Port Orange	32171	R	P,A		0	0			shuttered
Atlantic High School	8-Gym	1250 Reed Canal	Port Orange	32171				0	0			unshuttered windows
Blue Lake Elementary School		282 North Blue Lake Ave	DeLand	32724			249	0	0	249		
Campbell Middle School	2-Café	625 S. Keech St.	Daytona Beach	32124	N	G		342	6,837	0	300	ehpa
Campbell Middle School	3-Classroom	625 S. Keech St.	Daytona Beach	32124	R	G		544	10,889			laminated glass windows
Campbell Middle School	4-Classroom	625 S. Keech St.	Daytona Beach	32124	R	G		573	11,468			laminated glass windows
Campbell Middle School	5-ESE CR	625 S. Keech St.	Daytona Beach	32124	R	G		144	2,885			laminated glass windows
Campbell Middle School	6-Classroom	625 S. Keech St.	Daytona Beach	32124	R	G		544	10,889			laminated glass windows
Campbell Middle School	9-Gym	625 S. Keech St.	Daytona Beach	32124	R	G		433	8,659			laminated glass windows
Creekside Middle School	3	6801 Airport Road	Port Orange	32171				510	10,205			
Creekside Middle School	4	6801 Airport Road	Port Orange	32171				475	9,506			
Creekside Middle School	6	6801 Airport Road	Port Orange	32171				482	9,646			
Creekside Middle School	2-Café	6801 Airport Road	Port Orange	32171	N	P, A	336	0	0			
Creekside Middle School	9-Gym	6801 Airport Road	Port Orange	32171				440	8,793			
Daytona Beach Community College East	16	1200 West Intl Speedway	Daytona Beach	32114	R	G	322	322	6,440	0	322	
Daytona Beach Community College West	5	1155 County Road 4139	DeLand	32724	R	G	145	145	2,900	0	145	
DeBary Elementary School	1	88 W Highbanks Road	DeBary	32713	R	G	722	556	14,440	0	722	
DeBary Elementary School	2	88 W Highbanks Road	DeBary	32713				0	0			
DeBary Elementary School	4	88 W Highbanks Road	DeBary	32713				0	0			ehpa
DeLand High School	1	800 N. Hill Ave DeLand	DeLand	32724	R	G		0	0			
DeLand High School	2	800 N. Hill Ave DeLand	DeLand	32724				0	0			
DeLand High School	5	800 N. Hill Ave DeLand	DeLand	32724				391	7,819			shuttered per county
DeLand High School	7	800 N. Hill Ave DeLand	DeLand	32724				0	0			
DeLand High School	14	800 N. Hill Ave DeLand	DeLand	32724				571	11,421			shuttered per county
DeLand High School	15	800 N. Hill Ave DeLand	DeLand	32724				369	7,386			shuttered per county
DeLand High School	17	800 N. Hill Ave DeLand	DeLand	32724				0	0			
DeLand High School	1a	800 N. Hill Ave DeLand	DeLand	32724	R	Gen	800	800	12,895		628	
DeLand High School (2005)	39	800 N. Hill Ave DeLand	DeLand	32724				228	4,555		800	ehpa-2005
DeLand Middle School	4	1400 S Aquarius Avenue	DeLand	32724			792	635	9,523	2,376	792	
DeLand Middle School	13	1400 S Aquarius Avenue	DeLand	32724				0	0			
DeLand Middle School	15	1400 S Aquarius Avenue	DeLand	32724				0	0			
DeLand Middle School	16	1400 S Aquarius Avenue	DeLand	32724				0	0			
Delton High School	15-Classrooms portion				R	G		127	2,530			
Deltona High School	27	3233 Howland Blvd	Deltona	32725	R	G		191	3,824			
Deltona High School	14-café				R	G		222	4,449			
Deltona High School	15-gym	100 Wolf Pack Run	Deltona	32725	R	G		0	0		800	unprotected windows?
Deltona High School	16-ese	100 Wolf Pack Run	Deltona	32725	R	G		0	0			
Deltona Lakes Elementary School	8	2022 Adelia Boulevard	Deltona	32728			300	131	1,968	274	300	
Deltona Lakes Elementary School	9	2022 Adelia Boulevard	Deltona	32728				0	0			
Discovery Elementary School	1	975 Abigail Drive	Deltona	32725			207	207	5,470	252	207	
Discovery Elementary School	2	975 Abigail Drive	Deltona	32725				0	0			
Discovery Elementary School	4	975 Abigail Drive	Deltona	32725				0	0			
Discovery Elementary School	5	975 Abigail Drive	Deltona	32725				0	0			
Discovery Elementary School	3-Café-Band	975 Abigail Drive	Deltona	32725	R	G		220	4,408			
Elementary V	5-café	1600 S. Williamson Blvd	Port Orange	32127	N	G	250	300	6,000		300	
Forest Lake Elementary School	2	1600 Doyle Road	Deltona	32725	R	G	250	250	5,097	0	250	
Forest Lake Elementary School	3	1600 Doyle Road	Deltona	32725				0	0			
Forest Lake Elementary School	4	1600 Doyle Road	Deltona	32725				0	0			
Forest Lake Elementary School	5-café	1600 Doyle Road	Deltona	32725	R	G		238	4,755			
Freedom Elementray School	3	1395 South Blue Lake	DeLand	32724	N	P		0	0		397	
Freedom Elementray School	4	1395 South Blue Lake	DeLand	32724	N	P		0	0			
Freedom Elementray School	2-café	1395 South Blue Lake	DeLand	32724	N	P	794	0	0			
Friendship Elementary School	2	2746 Fulford Street	Deltona	32725			409	409	6,871	255	409	
Friendship Elementary School	3	2746 Fulford Street	Deltona	32725				0	0			
Friendship Elementary School	4-Dining	2746 Fulford Street	Deltona	32725	R	G		245	4,893			
Galaxy Middle School	2-Café	2400 Eustace Avenue	Deltona	32725	R	P	456	0	0		228	
Galaxy Middle School	9-gym	2400 Eustace Avenue	Deltona	32725				0	0			
Heritage Middle School	2-café	1001 Parnell Court	Deltona	32725	R	P	794	0	0		397	
Heritage Middle School	3-cr	1001 Parnell Court	Deltona	32725	R	G		469	9,385			

2008 Statewide Emergency Shelter Plan

VOLUSIA												
Heritage Middle School	4-cr	1001 Parnell Court	Deltona	32725	R	G		437	8,740			
Heritage Middle School	6-cr	1001 Parnell Court	Deltona	32725	R	G		470	9,402			
Heritage Middle School	9-gym	1001 Parnell Court	Deltona	32725				0	0			
Hinson Middle School	3	1860 N. Clyde Morris Blvd Ormond Beach FI 32174		32174	R	G		486	9,729		300	shuttered per county
Hinson Middle School	4	1860 N. Clyde Morris Blvd Ormond Beach FI 32174		32174	R	G		485	9,705			shuttered per county
Hinson Middle School	5	1860 N. Clyde Morris Blvd Ormond Beach FI 32174		32174	R	G		173	3,462			shuttered per county
Hinson Middle School	6	1860 N. Clyde Morris Blvd Ormond Beach FI 32174		32174	R	G		325	6,509			shuttered per county
Hinson Middle School	9	1860 N. Clyde Morris Blvd Ormond Beach FI 32174		32174	N	G		415	8,301			ehpa
Hinson Middle School	2-café	1860 N. Clyde Morris Blvd Ormond Beach FI 32174		32174	N	G	300	359	7,184	0		ehpa
Horizon Elementary School	7-café	4751 Hidden Lake Drive	Port Orange	32127	R	G	208	0	0	0	208	as-is
James Park Youth Action Center	main	1700 James Street	South Daytona	32111	R	G	80	80	1,600	0	80	
Mainland HS	2A-Café	Clyde Morris Blvd	Daytona Beach	32124	R	G		208	4,156			
Mainland HS	3-Gym	Clyde Morris Blvd	Daytona Beach	32124	N	G		1,750	35,000			
Manatee Cove Elementary	1	734 W. Ohio Avenue	Orange City	32763	R	G		0	0		300	
Manatee Cove Elementary	2	734 W. Ohio Avenue	Orange City	32763	R	G		254	5,073			shuttered per county
Manatee Cove Elementary	3	734 W. Ohio Avenue	Orange City	32763	R	G		481	9,610			shuttered per county
Manatee Cove Elementary	4	734 W. Ohio Avenue	Orange City	32763	R	G		417	8,344			shuttered per county
New Smyrna Beach HS	3-Gym	10th St	New Smyrna	32169	N	G		847	16,932		500	ehpa per report
New Smyrna Beach HS	8-Café	10th St	New Smyrna	32169	N	G		316	6,314			ehpa per report
Osteen Elementary School	2-Cafeteria	500 Doyle Road	Osteen	32764	N	G	200	125	2,500			ehpa per county
Palm Terrace Elementary School	1-entire	1825 Dunn Avenue	Daytona Beach	32124	R	P,A	536	0	0		0	Spns See below
Pathways Elementary School	2-cr	2100 Airport Road	Ormond Beach	32714	R	G	250	250	5,253	0	250	
Pathways Elementary School	3-cr	2100 Airport Road	Ormond Beach	32714				0	0			
Pathways Elementary School	4-cr	2100 Airport Road	Ormond Beach	32714				0	0			
Pathways Elementary School	5-café	2100 Airport Road	Ormond Beach	32714	R	G		238	4,755			
Piggotte Center		504 Big Tree Road	South Daytona	32111	R	G	100	100	2,000	0	100	
Pine Ridge High School	3	925 Howland Boulevard	Deltona	32725				0	0			
Pine Ridge High School	5	925 Howland Boulevard	Deltona	32725				0	0			
Pine Ridge High School	10-auditorium	925 Howland Boulevard	Deltona	32725				0	0			
Pine Ridge High School	1-café	925 Howland Boulevard	Deltona	32725	R	G	327	327	5,308		848	
Pine Ridge High School	7-cr	925 Howland Boulevard	Deltona	32725				0	0			
Pine Ridge High School	8-gym	925 Howland Boulevard	Deltona	32725				0	0			
Pine Ridge High School	9-music	925 Howland Boulevard	Deltona	32725				0	0		327	
Pine Trail Elementray School	6-café	300 Airport Road	Ormond Beach	32714			254	254	4,090	300	254	
Port Orange ES	5	402 Dunlawton Ave	Port Orange	32127	R	G		0	0			
Port Orange YMCA	4701-Day	4701 City Center Pkwy	Port Orange	32127	N	G		125	2,500	0	125	
Port Orange YMCA	4701-PE	4701 City Center Pkwy	Port Orange	32127	N	G	325	200	4,000	0	200	
Seabreeze HS	1	2700 N. Oleander ave	Daytona Beach	32118				0	0			exiting storm only
Seabreeze HS	13	2700 N. Oleander ave	Daytona Beach	32118				0	0			exiting storm only
Seabreeze HS	14	2700 N. Oleander ave	Daytona Beach	32118				0	0			exiting storm only
Seabreeze HS	15	2700 N. Oleander ave	Daytona Beach	32118				0	0			exiting storm only
Southwestern MS								535	10,702			ehpa-2005
Spirit Elementary	1	1500 Meadowlark Dr	Deltona	32728				276	5,521			shuttered per county
Spirit Elementary	2	1500 Meadowlark Dr	Deltona	32728	N	G		191	3,820		300	New facility
Spirit Elementary	3	1500 Meadowlark Dr	Deltona	32728				425	8,501			shuttered per county
Spirit Elementary	4	1500 Meadowlark Dr	Deltona	32728				353	7,059			shuttered per county
Sunrise Elementary School	2-cr	3155 Phonetia Drive	Deltona	32725	R	G	300	300	7,283	255	300	
Sunrise Elementary School	3-cr	3155 Phonetia Drive	Deltona	32725	R	G		0	0			
Sunrise Elementary School	4-café	3155 Phonetia Drive	Deltona	32725	R	G		245	4,893			
Sweetwater Elementary School	2-cr	5800 Victoria Gardens	Port Orange	32127	R	G	262	262	5,115	0	262	
Sweetwater Elementary School	3-cr	5800 Victoria Gardens	Port Orange	32127				0	0			
Sweetwater Elementary School	4-cr	5800 Victoria Gardens	Port Orange	32127				0	0			
Sweetwater Elementary School	5-café	5800 Victoria Gardens	Port Orange	32127				0	0			
Sweetwater Elementary School	6-library	5800 Victoria Gardens	Port Orange	32127				0	0			
T.D. Taylor MS	2-classroom				N	G		171	3,411			ehpa-2005
T.D. Taylor MS	7-Gym				N	G		544	10,872			ehpa-2005
Timbercrest Elementary School	1-library	2401 Eustace Avenue	Deltona	32725	R	G	255	223	3,344	0	255	
Timbercrest Elementary School	2-cr	2401 Eustace Avenue	Deltona	32725				0	0			
Timbercrest Elementary School	3-cr	2401 Eustace Avenue	Deltona	32725				0	0			
Timbercrest Elementary School	4-café	2401 Eustace Avenue	Deltona	32725	R	G		245	4,893			
Volusia county Fairground	Tommy Lawr	3150 E. NY Ave	Deland	32724	R	G, A	250	500	10,000	250	500	
Volusia Pines Elementray School	2-cr	500 Kicklighter Road	Lake Helen	32744	R	G	250	250	5,097	0		
Volusia Pines Elementray School	3-cr	500 Kicklighter Road	Lake Helen	32744				0	0			
Volusia Pines Elementray School	4-cr	500 Kicklighter Road	Lake Helen	32744	R	G		264	5,278			
Volusia Pines Elementray School	5-café	500 Kicklighter Road	Lake Helen	32744				0	0		250	
Volusia Pines Elementray School	6-library	500 Kicklighter Road	Lake Helen	32744				0	0			
X- Elementary School	2-Cafeteria	940 South Sparkman Street	Orange City	32763	N	G		191	3,820			
X- Elementary School	3-cr	940 South Sparkman Street	Orange City	32763	R	G		425	8,501			
X- Elementary School	4-cr	940 South Sparkman Street	Orange City	32763	R	G		352	7,059			

2008 Statewide Emergency Shelter Plan

VOLUSIA												
								0	0			
TOTALS FOR VOLUSIA COUNTY							11,513	26,987	534,442	5,059	12,108	0
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	26,987	31,370	-4,383	534,442			627,400	-92,958				
Special Needs Storm Shelters												
Name	Bldg. #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Atlantic HS	3-ESE CR	1250 Reed Canal	Port Orange	32171	R	P,A	No	120	7251		282	
Creekside MS	2-Café	6801 Airport Road	Port Orange	32171	N	P,A	Yes	121	7279		336	
Freedom ES	2-café	1395 South Blue Lake	DeLand	32724	N	P,A	Yes	63	3820		84	
Freedom ES	3-classroom	1395 South Blue Lake	DeLand	32724	N	P,A	Yes	158	9494			
Freedom ES	4-classroom	1395 South Blue Lake	DeLand	32724	N	P,A	Yes	126	7570			
Galaxy MS	2-Café	2400 Eustace Avenue	Deltona	32725	N	P,A	Yes	110	6608		429	
Heritage MS	2-café	1001 Parnell Court	Deltona	32725	R	P,A	No	107	6449		264	
Palm Terrace ES	1-entire	1825 Dunn Avenue	Daytona Beach	32124	R	P,A	No	715	42915		715	
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	1,520.00	636	884	91,200			38,160	53,040				

2008 Statewide Emergency Shelter Plan

WAKULLA

Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Crawfordville ES	200	69 Aaron Road	Crawfordville	32327	N	G	400	400	6,711	200	400	
Medart Elementary School		2558 Coastal Highway	Crawfordville	32327			400	0	0	300		
Mormon Church		US Highway 319 South	Crawfordville	32327			100	0	0	100		
River of Life		10 Faith Ave	Sopchoppy	32358		G	150	0	0			
Ochlockonee Bay United Methodist Church		45 Warrior Way	Crawfordville	32327			0	0	0	125		
Shadeville Elementary School		3237 Coastal Highway	Crawfordville	32327			350	0	0	0		
Sopchoppy School		Surf Road	Panacea	32346			200	0	0	200		
Wakulla County High School		164 Yellow Jacket Avenue	Sopchoppy	32358			290	0	0	290		
								0	0			
<b>TOTALS FOR WAKULLA COUNTY</b>							<b>1,890</b>	<b>400</b>	<b>6,711</b>	<b>1,215</b>	<b>400</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	400	1,010	-610	6,711			20,200	-13,489			

Special Needs Storm Shelters

Name	Bldg. #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)
Uses Regional Shelter									0		
									0		

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result		
Storm Category 4/5	0	46	-46	0			2,760	-2,760			

2008 Statewide Emergency Shelter Plan

WALTON												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)	Local Planned Usage (reported capacity)	Comments
Freeport HS		12615 Hwy 331 South	Freeport	32439	N	G	2,080	1,258	28,819	0	1,258	per State Study
Freeport HS		12615 Hwy 331 South	Freeport	32439	R	G		550	11,000		550	non-Ehpa portion of bldg
								0	0			
OWCC/Chautauqua Neighborhood Center	2	908 US Hwy 331 North	DeFuniak Springs	32433	R	G	401	401	8,020		401	
Paxton High School	100	21893 US Hwy 331 North	Laurel Hill	32567	N	G	485	250	9,715	0		
South Walton HS	all	645 Greenway Trail	Santa Rosa Bch		R	G		953	19,052		1,372	per State Study
South Walton HS		645 Greenway Trail	Santa Rosa Bch		R	G	1751	1,507	30,126		2,551	per State Study
Walton MS	10	625 Park Avenue	DeFuniak Springs	32435	R	P	275	0	0		275	
West DeFuniak Elementary School			DeFuniak Springs	32435			0	0	0	0		
								0	0			
<b>TOTALS FOR WALTON COUNTY</b>							<b>4,992</b>	<b>4,919</b>	<b>106,732</b>	<b>0</b>	<b>6,407</b>	<b>0</b>

Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft <sup>2</sup> )		Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result
Storm Category 4/5	4,919	5,650	-731	106,732		113,000	-6,268	

**Special Needs Storm Shelters**

Name	Bldg. #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned Usage (reported capacity)	Comments
Walton MS (Already Funded)	900	625 Park Avenue	DeFuniak Springs	32435			Yes	91	5,502		275	

Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft <sup>2</sup> )		Shelter Demand (ft <sup>2</sup> )	Surplus/ Deficit (ft <sup>2</sup> )	Result
Storm Category 4/5	91	44	47	5,460		2,640	2,820	



2008 Statewide Emergency Shelter Plan

WASHINGTON												
Name	Bldg. #	Address	City	Zip	Retrofitted (R) or New Construction (N)	General (G), PSN (P), Pet-Friendly (A)	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft <sup>2</sup> ) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496)	Local Planned usage (reported capacity)	Comments
Chipley High School	5	1545 Brickyard Road	Chipley	32428	R	G		159	3,967		154	
Chipley High School	6	1545 Brickyard Road	Chipley	32428	R	G		453	9,482		453	
Chipley High School	7	1545 Brickyard Road	Chipley	32428	R	G		162	4,063		162	
Chipley High School/Rouhlac Middle S	8	1535 Brickyard Road	Chipley	32428	N	G		153	3,072		153	
Rouhlac Middle School	1	1535 Brickyard Road	Chipley	32428	R	G	1,358	0	0	0	0	not done HMGP
Rouhlac Middle School	2	1535 Brickyard Road	Chipley	32428	R	G		245	6,221		245	
Rouhlac Middle School	3	1535 Brickyard Road	Chipley	32428	R	G		0	0		0	not done HMGP
Rouhlac MS	100	1535 Brickyard Road	Chipley	32428	R	G		132	2,635		132	
Rouhlac MS	300-7th grade wing/8th grade wind	1535 Brickyard Road	Chipley	32428	R	G		438	8,758		438	
Vernon High School	1	3232 Moss Hill Road	Vernon	32462	R	G		53	1,050	0		
Vernon High School	2	3232 Moss Hill Road	Vernon	32462	R	G		140	2,797			
Vernon High School	3	3232 Moss Hill Road	Vernon	32462	N	G		469	9,377			
Vernon High School	4	3232 Moss Hill Road	Vernon	32462	N	G		244	4,878			
Vernon High School	5	3232 Moss Hill Road	Vernon	32462	R	G		266	5,324			
Vernon High School	6	3232 Moss Hill Road	Vernon	32462	N	G		157	3,131			
Vernon High School	7	3232 Moss Hill Road	Vernon	32462	R	G		123	2,462			
Vernon High School	8	3232 Moss Hill Road	Vernon	32462	R	G		95	1,903			
Vernon Middle School	2	3206 Moss Hill Road	Vernon	32462	R	G		208	3,621		208	
Vernon Middle School	3	3206 Moss Hill Road	Vernon	32462	R	G		405	7,345		405	
Vernon Middle School	4	3206 Moss Hill Road	Vernon	32462	R	G		301	7,179		301	
Vernon Middle School	5	3206 Moss Hill Road	Vernon	32462	R	G		289	7,219		280	
Vernon Middle School		3206 Moss Hill Road	Vernon	32462			1,436	0	0	232		
Washington County Ag Center		800 W Washington Avenue	Chipley	32428			410	0	0	0		
								0	0			
<b>TOTALS FOR WASHINGTON COUNTY</b>							<b>3,204</b>	<b>4,492</b>	<b>94,484</b>	<b>232</b>	<b>2,931</b>	<b>0</b>
Year 2008	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	4,492	1,131	3,361	94,484			22,620	71,864				
<b>Special Needs Storm Shelters</b>												
Name	Bldg. #	Address	City	Zip			Emergency Powered HVAC?	SpNS Capacity (spaces @ 60sf) (meets ARC 4496)	SpNs Capacity (sf) (meets ARC 4496)	SpNS Capacity (spaces @ 60sf) (does not meet ARC 4496)	Local Planned usage (reported capacity)	Comments
Rouhlac MS	12 (New EHPA 5th Grade)	1535 Brickyard Rd	Chipley				No	144	8,666	0		
Year 2008	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)			Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result			
Storm Category 4/5	144	134	10	8,640			8,040	600				

Appendix B:  
State Requirements for Educational Facilities (SREF)- FBC, &423.25 Public Shelter  
Design Criteria

## **Public Shelter Design Criteria.**

### **423.25.1 New facilities.**

New educational facilities for school boards and community college boards, unless specifically exempted by the board with the written concurrence of the applicable local emergency management agency or the Department of Community Affairs (DCA), shall have appropriate areas designed as enhanced hurricane protection areas (EHPAs) in compliance with this section.

**Exception:** Facilities located, or proposed to be located, in a Category 1, 2, or 3 evacuation zone shall not be subject to these requirements.

#### **423.25.1.1 Enhanced hurricane protection areas (EHPA).**

The EHPA areas shall provide emergency shelter and protection for people for a period of up to 8 hours during a hurricane.

##### **423.25.1.1.1**

The EHPA criteria apply only to the specific portions of (K-12) and community college educational facilities that are designated as EHPAs.

##### **423.25.1.2**

The EHPAs and related spaces shall serve the primary educational or auxiliary use during non-shelter occupancy.

### **423.25.2 Site.**

Factors such as low evacuation demand, size, location, accessibility and storm surge may be considered by the board, with written concurrence of the local emergency management agency or the DCA, in exempting a particular facility.

#### **423.25.2.1 Emergency access.**

EHPAs shall have at least one route for emergency vehicle access. The emergency route shall be above the 100-year floodplain. This requirement may be waived by the board, with concurrence of the local emergency management agency or the DCA.

#### **423.25.2.2 Landscaping.**

Landscaping around the EHPAs shall be designed to preserve safety and emergency access. Trees shall not conflict with the functioning of overhead or underground utility lines, or cause laydown or impact hazard to the building envelope.

#### **423.25.2.3 Parking.**

During an emergency condition, vehicle parking shall be prohibited within 50 feet (15 240 mm) of an EHPA. Designated EHPA parking areas may be unpaved.

#### **423.25.2.4 Signage.**

Floor plans of the facility, indicating EHPAs, shall be mounted in the emergency manager's office/area.

### **423.25.3 Design.**

EHPAs may be above or below ground and may have more than one story, provided the design satisfies the wind load and missile impact criteria. Modular and open-plan buildings may serve as EHPAs provided the design satisfies the wind load and missile impact criteria.

#### **423.25.3.1 Excluded spaces.**

Spaces such as mechanical and electrical rooms, storage rooms, open corridors, kitchens, science rooms and labs, vocational shop areas and labs, computer rooms, attic and crawl spaces, shall not be used as EHPAs.

#### **423.25.3.2 Capacity.**

Fifty percent of the net square feet of a designated educational facility shall be constructed as EHPAs. The net square feet shall be determined by subtracting from the gross square feet those spaces, such as mechanical and electrical rooms, storage rooms, open corridors, kitchens, science rooms and labs, vocational shop areas and labs, computer rooms, attic and crawl spaces that shall not be used as EHPAs. The board, with concurrence of the applicable local emergency management agency or DCA, may adjust this requirement if it is determined to be in its best interest. The capacity of an EHPA shall be calculated at 20 square feet (2 m<sup>2</sup>) per occupant (adults and children five years or older).

#### **423.25.3.3 Toilets.**

Toilet and hand washing facilities should be located within the EHPAs and provided at one toilet and one sink per 40 occupants. These required toilet and hand-washing facilities are not in addition to those required for normal school occupancy and shall be included in the overall facility fixture count.

##### **423.25.3.3.1**

Support systems for the toilets, e.g., bladders, portable toilets, water storage tanks, etc., shall be capable of supplying water and containing waste, for the designed capacity of the EHPAs.

##### **423.25.3.3.2**

Plumbing and valve systems of "normal" toilets within the EHPAs may be designed for conversion to emergency operation to meet the required demand.

#### **423.25.3.4 Food service.**

Where feasible, include counter tops for food distribution functions in the EHPAs.

#### **423.25.3.5 Manager's office.**

An administration office normally used by a school administrator shall be identified as the EHPA manager's office and shall be located within the EHPA. The office shall have provisions for standby power, lighting, communications, main fire alarm control panel and storage for the manager's equipment.

#### **423.25.4 Structural standard for wind loads.**

At a minimum, EHPAs shall be designed for wind loads in accordance with ASCE 7, *Minimum Design Loads for Buildings and Other Structures, Category III (Essential Buildings)*. Openings shall withstand the impact of wind-borne debris missiles in accordance with the impact and cyclic loading criteria per SBC/SSTD 12. Based on a research document, *Emergency Shelter Design Criteria for Educational Facilities*, by the University of Florida for the DOE, it is highly recommended by the department that the shelter be designed using the map wind speed plus 40 mph, with an importance factor of 1.0.

#### **423.25.4.1 Missile impact criteria.**

The building enclosure, including walls, roofs, glazed openings, louvers and doors, shall not be perforated or penetrated by a flying object. For walls and roofs, the missile criteria is as provided in SBC/SSTD 12.

##### **423.25.4.1.1**

Materials used for walls, roofs, windows, louvers, and doors shall be certified for resistance to missile impact criteria.

##### **423.25.4.1.2**

The glazed openings or permanent protective systems over glazed openings shall be designed for cyclic loading.

#### **423.25.4.2 Roofs.**

Roof decks shall be cast-in-place 4-inch (102 mm) or more, normal weight concrete. Concrete decks shall be waterproof. Systems other than cast-in-place concrete shall have adequate bearing, anchorage against wind uplift, diaphragm action, and resistance to rain that are equivalent to a cast-in-place system.

**Exception:** Structural precast concrete roofs, composite metal decks with normal weight concrete roofs, or other systems and materials that meet the wind load and missile impact criteria may be used.

##### **423.25.4.2.1**

Light weight concrete or insulating concrete may be used on roof decks of EHPAs provided the roof decks are at least 4-inch (102 mm) cast-in-place normal weight concrete or other structural systems of equivalent strength.

##### **423.25.4.2.2**

Roof openings (e.g., HVAC fans, ducts, skylights) shall be designed to meet the wind load and missile impact criteria.

##### **423.25.4.2.3**

Roof coverings shall be specified and designed according to the latest ASTM and Factory Mutual Standards for materials and wind uplift forces. Roofs shall be inspected by a licensed engineer/architect and a representative of the roofing manufacturer.

##### **423.25.4.2.4**

Roofs shall have adequate slope and drains sized for normal use and shall have emergency overflow scuppers which will accommodate a 2-inch-per-hour (51 mm) rain for 6 hours.

##### **423.25.4.2.5**

Parapets shall satisfy the wind load and missile impact criteria; roof overhangs shall resist uplift forces.

#### **423.25.4.3 Windows.**

All unprotected window assemblies and their anchoring systems shall be designed and installed to meet the wind load and missile impact criteria.

##### **423.25.4.3.1**

Windows may be provided with permanent protective systems, provided the protective system is designed and installed to meet the wind load and missile impact criteria and completely covers the window assembly and anchoring system.

#### **423.25.4.3.2**

EHPAs shall have mechanical ventilation systems. Ventilation shall be provided at a minimum rate of 2 cfm per square foot of EHPA floor area. The mechanical ventilation system shall be connected to the EHPA's emergency power.

#### **423.25.4.4 Doors.**

All exterior and interior doors subject to possible wind exposure and/or missile impact shall have doors, frames, anchoring devices, and vision panels designed and installed to resist the wind load and missile impact criteria or such doors, frames, anchoring devices, and vision panels shall be covered with permanent protective systems designed and installed to resist the wind load and missile impact criteria.

#### **423.25.4.5 Exterior envelope.**

The exterior envelope, louvers over air intakes and vents, and gooseneck type intakes and vents of EHPAs shall be designed and installed to meet the wind load and missile impact criteria.

#### **423.25.4.5.1**

HVAC equipment mounted on roofs and anchoring systems shall be designed and installed to meet the wind load criteria.

#### **423.25.4.5.2**

Roof mounted HVAC equipment shall have a 12-inch-high (305 mm) curb around the roof opening and be designed to prevent the entry of rain water.

#### **423.25.4.6 Foundations and floor slabs.**

Foundations shall be designed to resist all appropriate loads and load combinations, including overturning moments due to wind. The floor elevation and necessary life safety and other emergency support systems of EHPAs shall be elevated above the maximum storm surge inundation elevation associated with a Category 4 hurricane event. Storm surge elevations shall be identified by the most current edition of the regional Sea Lake and Overland Surges from Hurricanes (SLOSH) studies and atlases.

#### **423.25.5 Electrical and standby emergency power system.**

The EHPA shall be provided with a standby emergency electrical power system, per Chapter 27, NFPA 70 Articles 700 and 701, which shall have the capability of being connected to a backup generator or other optional power source. Where economically feasible, an equivalent photovoltaic system may be provided. The EHPA's emergency systems includes, but are not limited to: (1) an emergency lighting system, (2) illuminated exit signs, (3) fire protection system(s), alarm (campus wide) and sprinkler, and (4) minimum ventilation for health/safety purposes. The fire alarm panel shall be located in the EHPA manager's office. A remote annunciator panel shall be located in or adjacent to the school administrator's office. When generators are installed, the facility housing the generator, permanent or portable, shall be an enclosed area designed to protect the generators from wind and missile impact. Air intakes and exhausts shall be designed and installed to meet the wind load and missile impact criteria. Generators

hardened by the manufacturer to withstand the area's design wind and missile impact criteria shall be exempt from the enclosed area criteria requirement.

#### **423.25.5.1 EHPA lighting.**

Emergency lighting shall be provided within the EHPA area, EHPA manager's office, toilet rooms, main electrical room and generator spaces and shall be at least 10 footcandles (100 lux) of general illumination, which can be reduced to ½ footcandle (5 lux) in the sleeping areas during the night.

#### **423.25.5.2 Optional standby circuits.**

Additional nonlife safety systems, as defined by Chapter 27, NFPA 70 Article 702 (optional standby circuits), may be supplied power, if available, by the Standby Emergency Power System. These systems shall be connected to the Standby Emergency Power System via an electrical subpanel to the Standby Electrical Power System's main electrical panel. This will allow selective or total load shedding of power if required. The fire alarm, emergency lighting and illuminated exit signs throughout the entire campus shall receive first priority to power provided by the Standby Emergency Power System per Chapter 27, NFPA 70 Article 700. The systems listed are not all encompassing but are in order of priority. Local officials may request additional non-life safety systems they deem necessary for health, welfare and safety of the public during occupancy:

1. Remainder of the school's campus security lighting (building and site).
2. Additional ventilation systems within the EHPA, including heat.
3. Intercom system.
4. Food storage equipment.
5. Additional electric receptacles, other than those required by Section [423.25.5.3](#).

#### **423.25.5.3 Receptacle outlets.**

A minimum of four electrical outlets, served with power from the standby circuits, shall be provided in the EHPA manager's office.

#### **423.25.6 Inspections.**

EHPAs shall be considered "threshold buildings" in accordance with Section 553.71(7), Florida Statutes, and shall comply with Sections 553.79(5), 553.79(7), and 553.79(8), Florida Statutes.

##### **423.25.6.1**

Construction of EHPAs shall be inspected during the construction process by certified building code inspectors or the design architect/engineer(s) certified pursuant to Part XII Chapter 468, Florida Statutes and threshold inspectors for compliance with applicable rules and laws.

##### **423.25.6.2**

The emergency electrical systems shall be inspected during the construction process by certified electrical inspector or Florida-registered professional engineers certified pursuant to Part XII Chapter 468, Florida Statutes, skilled in electrical design.

##### **423.25.6.3**

EHPAs shall be inspected and recertified for compliance with the structural requirements of this section every five years by a Florida-registered professional engineer skilled in structural design. If any structural system, as specified in this section, is damaged or

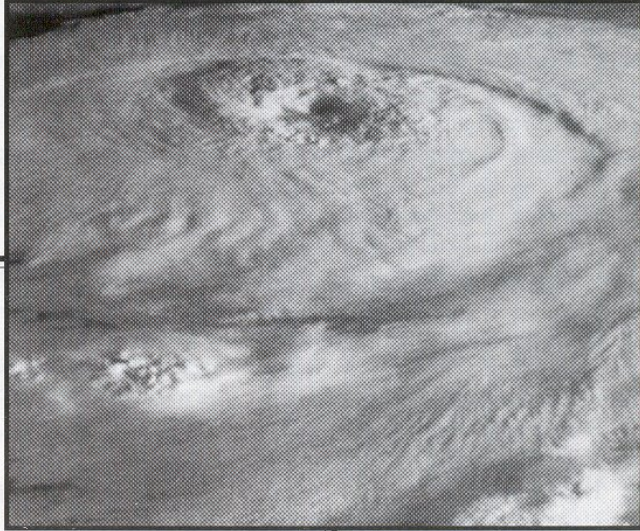
replaced, the recertification shall be obtained prior to the beginning of the next hurricane season.

**423.25.6.4**

All shutter systems, roofs, overflow scuppers, and structural systems of EHPAs shall be inspected and maintained annually prior to hurricane season and after a major event. All emergency generators shall be inspected under load conditions including activation of the fire alarms, emergency lights as per applicable equipment codes and NFPA standards, and including mechanical systems and receptacles connected to the emergency power.



Appendix C:  
ARC 4496 - Standards for Hurricane  
Evacuation Shelter Selection



*Standards  
for  
Hurricane  
Evacuation  
Shelter  
Selection*



*Together, we can save a life*

An interagency group comprised of the Federal Emergency Management Agency, the U.S. Army Corps of Engineers, the Environmental Protection Agency and Clemson University, has developed hurricane evacuation shelter selection standards. These standards reflect the application of technical data compiled in hurricane evacuation studies, other hazard information, and research findings related to wind loads and structural problems. These standards are supplemental to information contained in ARC 3041, *Mass Care: Preparedness and Operations* concerning shelter selection.

Planning considerations for hurricane evacuation shelters involve a number of factors and require close coordination with local officials responsible for public safety. Technical information contained in Hurricane Evacuation Studies, storm surge and flood mapping, and other data can now be used to make informed decisions about the suitability of shelters.

In the experience of the American Red Cross, the majority of people evacuating because of a hurricane threat generally provide for themselves or stay with friends and relatives. However, for those who do seek public shelter, safety from the hazards associated with hurricanes must be assured. These hazards include—

- Surge inundation.
- Rainfall flooding.
- High winds.
- Hazardous materials.

**The following standards address the risks associated with each of these hurricane-associated hazards.**

### **Surge Inundation**

In general, hurricane evacuation shelters should not be located in areas vulnerable to hurricane surge inundation. The National Weather Service has developed mathematical models, such as Sea, Lake, and Overland Surges from Hurricanes (SLOSH) and Special Program to List Amplitudes of Surges from Hurricanes (SPLASH), that are critical in determining the potential level of surge inundation in a given area.

- Carefully review inundation maps in order to locate all hurricane evacuation shelters outside of Category 4 storm surge inundation zones.
- Avoid buildings subject to isolation by surge inundation in favor of equally suitable buildings not subject to isolation. Confirm that ground elevations for all potential shelter facilities and access routes obtained from topographic maps are accurate.
- Do not locate hurricane evacuation shelters on barrier islands.

### **Rainfall Flooding**

Rainfall flooding must be considered in the hurricane evacuation shelter selection process. Riverine inundation areas shown on Flood Insurance Rate Maps (FIRMs), as prepared by the National Flood Insurance Program, should be reviewed. FIRMs should also be reviewed in locating shelters in inland counties.

- Locate hurricane evacuation shelters outside the 100-year floodplain.
- Avoid selecting hurricane evacuation shelters located within the 500-year floodplain.
- Avoid selecting hurricane evacuation shelters in areas likely to be isolated due to riverine inundation of roadways.
- Make sure a hurricane evacuation shelter's first floor elevation is on an equal or higher elevation than that of the base flood elevation level for the FIRM area.
- Consider the proximity of shelters to any dams and reservoirs to assess flow upon failure of containment following hurricane-related flooding.

## High Winds

Consideration of any facility for use as a hurricane evacuation shelter must take into account wind hazards. Both design and construction problems may preclude a facility from being used as a shelter. Local building codes are frequently inadequate for higher wind speeds.

- If possible, select buildings that a structural engineer has certified as being capable of withstanding wind loads according to ASCE (**American Society of Engineers**) 7-98 or ANSI (**American National Standards Institute**) A58 (1982) structural design criteria. Buildings must be in compliance with all local building and fire codes.
- Failing a certification (see above), request a structural engineer to rank the proposed hurricane evacuation shelters based on his or her knowledge and the criteria contained in these guidelines.
- Avoid uncertified buildings of the following types:
  - Buildings with long or open roof spans longer than 40 feet.
  - Unreinforced masonry buildings.
  - Pre-engineered (steel pre-fabricated) buildings built before the mid-1980s.
  - Buildings that will be exposed to the full force of hurricane winds.
  - Buildings with flat roofs or built with lightweight materials.
- Give preference to the following:
  - Buildings with 10°-30° pitched, hipped roofs; or with heavy concrete roofs.
  - Buildings no more than 60 feet high.
  - Buildings in sheltered areas (protected from strong winds).
  - Buildings whose access routes are not tree-lined.

## Hazardous Materials

The possible impact from a spill or release of hazardous materials should be taken into account when considering any potential hurricane evacuation shelter.

All facilities manufacturing, using, or storing hazardous materials (in reportable quantities) are required to submit *Material Safety Data Sheets* (emergency and hazardous chemical inventory forms) to the Local Emergency Planning Committee (LEPC) and the local fire department. These sources can help you determine the suitability of a potential hurricane evacuation shelter or determine precautionary zones (safe distances) for facilities near potential shelters that manufacture, use or store hazardous materials.

- Facilities that store certain reportable types or quantities of hazardous materials may be inappropriate for use as hurricane evacuation shelters.
- Hurricane evacuation shelters should not be located within the ten-mile emergency planning zone (EPZ) of a nuclear power plant.
- Chapters must work with local emergency management officials to determine if hazardous materials present a concern for potential hurricane evacuation shelters.

## Interior Building Safety Criteria During Hurricane Conditions

Based on storm data (e.g., arrival of gale-force winds), determine a notification procedure with local emergency managers regarding when to move the shelter population to pre-determined safer areas within the facility. Consider the following:

- Do not use rooms attached to, or immediately adjacent to, unreinforced masonry walls or buildings.
- Do not use gymnasiums, auditoriums, or other large open areas with long roof spans (longer than 40 feet) during hurricane conditions.
- Avoid areas near glass unless an adequate shutter protects the glass surface. Assume that windows and the roof will be damaged and plan accordingly.
- Use interior corridors or rooms.
- In multi-story buildings, use only the lower floors (no higher than 60 feet) and avoid corner rooms.
- Avoid any wall section that has portable or modular classrooms in close proximity, if these are used in your community.
- Avoid basements if there is any chance of flooding.

## Least-Risk Decision Making

Safety is the primary consideration for the American Red Cross in selecting hurricane evacuation shelters. When anticipated demands for hurricane evacuation shelter spaces exceed existing capacity as defined by the preceding standards, there may be a need to utilize less preferred facilities. It is critical that shelter selection decisions be made carefully and in consultation with local emergency management and public safety officials. This process should include the following considerations:

- No hurricane evacuation shelter should be located in an evacuation zone for obvious safety reasons. All hurricane evacuation shelters should be located outside of Category 4 storm surge inundation zones. Certain exceptions may be necessary, but only if there is a high degree of confidence that the level of wind, rain, and surge activities will not surpass established shelter safety margins.
- When a potential hurricane evacuation shelter is located in a flood zone, it is important to consider its viability. By comparing elevations of sites with FIRMs, one can determine if the shelter and a major means of egress are in any danger of flooding. Zone AH (within the 100-year flood plain and puddling of 1-3 feet expected) necessitates a closer look at the use of a particular facility as a sheltering location. Zones B, C, and D may allow some flexibility. It is essential that elevations be carefully checked to avoid unnecessary problems.
- In the absence of certification or review by a structural engineer, any building selected for use as a hurricane evacuation shelter must be in compliance with all local building and fire codes. Certain exceptions may be necessary, but only after evaluation of each facility, using the aforementioned building safety criteria.
- The Red Cross uses the planning guideline of 40-square feet of space per shelter resident. During hurricane conditions, on a short-term basis, shelter space requirements may be reduced. Ideally, this requirement should be determined using no less than 15 square feet per person. Adequate space must be set aside for registration, health services, and safety and fire considerations. Disaster Health Services areas should still be planned using a 40-square feet per person calculation. On a long-term recovery basis, shelter space requirements should follow guidelines established in ARC 3041, *Mass Care: Preparedness and Operations*.

## Hurricane Evacuation Shelter Selection Process

General procedures for investigating the suitability of a building or facility for use as a hurricane evacuation shelter are as follows:

- Identify viable sites. Evacuation and transportation route models must be considered.
- Complete a risk assessment on each viable site. Gather all pertinent data from SLOSH and/or SPLASH (storm surge), FIRM (flood hazard) models; determine the facility base elevation; and obtain hazardous materials information and previous studies concerning each building's suitability.
- Have a structural engineer evaluate the facility and rate its ability to withstand wind loads according to ASCE 7-98 or ANSI A58 (1982) structural design criteria.
- Inspect the facility and complete a *Red Cross Facility Survey* (ARC Form 6564) and a *Self-Inspection Work Sheet/Off Premises Liability Checklist*, in accordance with ARC 3041. Note all potential liabilities and the type of construction. Consider the facility as a whole. One weak section may seriously jeopardize the integrity of the building.

## Increasing Shelter Inventory

An annual review of all approved hurricane evacuation shelters is required. Facility improvements, additions, or deterioration may change the suitability of a selected facility as a hurricane evacuation shelter. Facility enhancements may also enable previously unacceptable facilities to be used as hurricane evacuation shelters.

Work with officials, facility managers, and school districts on mitigation opportunities. Continue to advocate that the building program for new public buildings, such as schools, should include provisions to make them more resilient to possible wind damage. Suggest minor modifications of municipal, community, or school buildings, such as the addition of hurricane shutters, while buildings are being planned. Such modifications will make them useful as hurricane evacuation shelters.

Finally, add any new shelters to chapter shelter system and disaster response plans. Share shelter information with local emergency planning partners and the state lead chapter for Disaster Services for inclusion in state disaster response plans.

Appendix D:  
Acronyms

## Appendix D: Acronyms

**ADA** – American Disabilities Act

**ANSI** – American National Standards Institute

**ARC** – American Red Cross

**ARC 3041** – ARC publication *Mass Care - Preparedness and Operations*

**ARC 4496** – ARC publication *Standards for Hurricane Evacuation Shelter Selection*

**ASCE** – American Society of Civil Engineers

**ASCE 7** – ASCE publication *Minimum Design Loads for Buildings and Other Structures*

**ASCE 24** – ASCE publication *Flood Resistant Design and Construction*

**ASTM** – American Society for Testing and Materials

**ASTM E 1886 and E 1996** – ASTM standards for windborne debris impact

**DEM** – Division of Emergency Management

**DOE** – Department of Energy (U.S.)

**DOE-STD-1020** – U.S. Department of Energy publication – *Natural Phenomena Hazards Design and Evaluation Criteria*

( <http://tis.eh.doe.gov/techstds/standard/std1020/STD-10202002.pdf> )

**EHPA** – Enhanced Hurricane Protection Area

**FBC** – Florida Building Code

**FDOE** – Florida Department of Education

**FEMA** – Federal Emergency Management Agency

**FEMA 361** – FEMA Publication *Design and Construction Guidance for Community Shelters* ( <http://www.fema.gov/fima/fema361.shtm> )

## **Acronyms (Continued)**

**FISH** – Florida Inventory of School Houses

**FIRM** – Flood Insurance Rate Map

**F.S.** – Florida Statutes

**HMG** – Hazard Management Group, Inc.

**HMGP** – Hazard Mitigation Grant Program

**ICF** – Insulated Concrete Form

**LEPC** - Local Emergency Planning Committee

**NHC** - National Hurricane Center

**NWS** - National Weather Service

**PC** – Performance Category (DOE-STD-1020)

**PDM** – Pre-Disaster Mitigation grant program

**PECO** – Public Education Construction Outlay

**PSN** – Persons with Special Needs

**RPC** – Regional Planning Council

**SIT** – School Infrastructure Thrift Award

**SLOSH** – Sea, Lake, and Overland Surges from Hurricanes

**SpNS** – Special Needs Shelter

**SREF** – State Requirements for Educational Facilities

**SSTD 12** – Southern Building Code Congress International - Standard 12 - *Test Standards for Determining Resistance From Windborne Debris*

## **Acronyms (Continued)**



**TAS – Testing Application Standard**

Appendix E:  
Glossary

## Appendix E: Glossary

**Barrier Island (Coastal):** Geological features which lie above the line of mean high water and are completely surrounded by open marine waters and that front upon the Gulf of Mexico, Atlantic Ocean, Florida Bay or Straits of Florida; reference section 161.54(2), Florida Statutes.

**Board:** Unless otherwise specified, means a district school board, a community college board of trustees, a university board of trustees. The term "board" does not include the State Board of Education.

**Core Area:** Portions of a facility with defined boundaries, barriers or partitions that have been designated for use during an emergency.

**Critical Support Systems:** Structures, systems and components required to ensure the health, safety and well-being of occupants. Critical support systems include, but not limited to, life-safety systems, potable and waste water systems, electrical power systems and heating, ventilation and air-conditioning (HVAC) systems.

**Educational Facilities:** Means the buildings and equipment, structures, and special educational use areas that are built, installed, or established to serve primarily the educational purposes and secondarily the social and recreational purposes of the community and which may lawfully be used as authorized by the Florida Statutes and approved by boards.

**Enhanced Hurricane Protection Area:** A new educational facility or portion thereof that is designed, constructed and inspected in accordance with the Public Shelter Design Criteria, section 423.25, Florida Building Code—Building.

**Excluded Space:** Spaces such as mechanical, plumbing, electrical and telecommunication equipment rooms, storage rooms and closets, exterior/outside circulation and corridors, restrooms and shower areas, kitchen and food preparation rooms, science labs, computer and information technology labs, vocational and industrial technology labs and shops, library and media rooms and labs, administrative office and support areas, record vaults, attics and crawl spaces.

**Host Shelter:** A facility that is relatively safe and provides essential support services. Facilities are designated as Host Shelters when they are located in an area that is outside the projected path of an approaching hurricane or severe storm. As local conditions are not expected to present hazards such as surge inundation, rainfall flooding, high winds, or hazardous materials which exceed the building codes of the facilities in use, shelter selection guidelines in ARC 4496 do not have to be considered. For planning purposes, the operational period of a Host Shelter is from 24 hours prior to landfall until 72 hours after landfall of a hurricane or severe storm. A total of 20 square feet of usable floor space per person is recommended in the calculation of shelter capacity

## **Glossary (continued)**

**Hurricane Evacuation Shelter:** A building or facility that conforms to the hurricane evacuation guidelines published in ARC 4496, and is intended to shelter persons in the path of a major storm or hurricane. The designation does not imply that a facility is capable of affording complete protection or is free from hazards, but only that it meets established minimum safety criteria. See also Risk Shelter.

**Hurricane Evacuation Zone:** Area(s) designated to be evacuated for particular hurricane scenarios to protect an at-risk population from flooding or high winds. Evacuation zones are developed taking into consideration all populated areas having a serious risk of flooding, areas not subject to flooding but may be cut-off or completely surrounded and isolated by flooded areas, and the need to be easily communicated to the public.

**Included Space:** All rooms and areas not listed in the definition of excluded space.

**Long-range planning:** Means devising a systematic method based on educational information and needs, carefully analyzed, to provide the facilities to meet the goals and objectives of the educational agency for a period of 5 years.

**Long Span (Roof):** See Open Span.

**Mitigation:** Actions taken to prevent or reduce the risk to life, property, social, economic activities, and natural resources from natural or technological hazards.

**Net Usable Floor Area:** The floor area of included spaces reduced to account for partitions and walls, columns, fixed or movable objects, furniture, equipment or other features that under probable conditions can not be removed or stored during use as an hurricane shelter.

**New Construction:** Means any construction of a building or unit of a building in which the entire work is new or an entirely new addition connected to an existing building or which adds additional square footage to the space inventory.

**On-site:** Means either inside, immediately adjacent to, or on the same site and under the control of the owner or lawful tenant.

**Open Span (Roof):** An area in a structure where the clear distance between supporting elements (beams, columns, etc.) in the shortest direction is 40 feet or more.

## Glossary (continued)

**Recovery Shelter:** A facility that is relatively safe and provides essential support services. Facilities designated as Recovery Shelters are used after there is no longer a threat of hurricane or severe storm in the area. All Host Shelters and those Risk Shelters that have essential support services may be used as Recovery Shelters. As local conditions are not expected to present hazards such as surge inundation, rainfall flooding, high winds, or hazardous materials which exceed the building codes of the facilities in use, shelter selection guidelines in ARC 4496 do not have to be considered. The shelter population may include evacuees from the local area or evacuees who flee from the threat of hurricane or severe storm in their home counties and are not yet authorized to return to their homes. For planning purposes, the operational period of a Recovery Shelter is from 72 hours after landfall and beyond. A total of 40 square feet of usable floor space per person is recommended in the calculation of shelter capacity.

**Reduction Factor:** Factors used to reduce the net floor area in order to accommodate presence of exterior and interior walls, furnishings, equipment, walkways, etc., resulting in the net usable floor area.

**Remodeling:** Means the changing of existing facilities by rearrangement of spaces and their use and includes, but is not limited to, the conversion of two classrooms to a science laboratory or the conversion of a closed plan arrangement to an open plan configuration.

**Renovation:** Means the rejuvenating or upgrading of existing facilities by installation or replacement of materials and equipment and includes, but is not limited to, interior or exterior reconditioning of facilities and spaces; air-conditioning, heating, or ventilating equipment; fire alarm systems; emergency lighting; electrical systems; and complete roofing or roof replacement, including replacement of membrane or structure.

**Retrofit:** Modifications performed upon an existing structure or infrastructure with the goal of significantly reducing or eliminating potential damage due to a specific hazard.

**Risk Shelter:** A facility that complies with shelter selection guidelines prescribed in *Standards for Hurricane Evacuation Shelter Selection* (ARC 4496, January 2002). Facilities designated as Risk Shelters lie in the forecast path and associated error cone of an approaching hurricane or severe storm. The designation does not imply that a facility is capable of affording complete protection or is free from hazards but only that it meets established minimum safety criteria. A total of 20 square feet of usable floor space per person is recommended in the calculation of shelter capacity. Also see Hurricane Evacuation Shelter.

**Saffir-Simpson Hurricane Scale:** The current prevalent system of classifying hurricanes based on five categories that relate hurricane strength and, therefore, damage potential, with the central

pressure, wind velocity, and storm surge.

### **Glossary (continued)**

**Shelter:** A designated place or building of relative safety that temporarily provides essential support services with the goal of preserving life and reducing human suffering.

**Shelter Envelope:** Vertical and horizontal materials and assemblies that enclose a shelter area and serve as protective barriers from hurricane wind and debris hazards. The shelter envelope includes roof coverings, roof assembly, exterior walls, door and window assemblies, glazing, skylight assemblies, and floor and interior wall assemblies that separate the shelter from unprotected areas of a host building.

**Shutters:** Permanent or temporary closures or shields and assemblies that serve as a structural barrier to resist wind induced loads that act on their surface(s) to include aerodynamic and wind-borne debris impact loads.

**Site:** A space of ground occupied or to be occupied by a facility, project or program.

**SLOSH modeling:** A modeling methodology developed by the National Weather Service/National Hurricane Center that predicts the maximum envelope and depth of coastal and inland storm surge inundation with respect to categories of hurricane intensity.

**Special Needs Clients:** Persons with Special Needs (PSN) cared for in a Special Needs Shelter with the following types of needs: persons with minor health/medical conditions that require professional observation, assessment, and maintenance but who do not require institutional care; persons with chronic stable conditions who may require assistance with the activities of daily living but who do not require institutional care; persons with contagious health conditions that require precautions or isolation and who cannot be cared for in a general/public shelter environment; persons who need to take medications and/or have vital signs monitored and who are unable to complete these tasks without assistance; and, persons who require oxygen therapy.

**Special Needs Shelters (SpNS):** Structures that have auxiliary power and are capable of providing safe refuge for people who require assistance with the management of a health condition or supervision of that condition by a health care professional during the time of a disaster. The special needs services provided during an emergency are supplied, when practical, in an environment that can help to sustain pre-disaster levels of health.

**Storm Surge:** An abnormal rise in water level at the shoreline of a large body of water caused by wind and pressure forces of a storm or hurricane.

Appendix F:  
Saffir-Simpson Hurricane Scale

# The Saffir-Simpson Hurricane Scale

The Saffir-Simpson Hurricane Scale is a 1-5 rating based on the hurricane's present intensity. This is used to give an estimate of the potential property damage and flooding expected along the coast from a hurricane landfall. Wind speed is the determining factor in the scale, as storm surge values are highly dependent on the slope of the continental shelf in the landfall region. Note that all winds are using the U.S. 1-minute average.

## **Category One Hurricane:**

Winds 74-95 mph (64-82 kt or 119-153 km/hr). No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage. Hurricanes [Allison](#) of 1995 and [Danny](#) of 1997 were Category One hurricanes at peak intensity.

## **Category Two Hurricane:**

Winds 96-110 mph (83-95 kt or 154-177 km/hr). Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings. [Hurricane Bonnie](#) of 1998 was a Category Two hurricane when it hit the North Carolina coast, while [Hurricane Georges](#) of 1998 was a Category Two Hurricane when it hit the Florida Keys and the Mississippi Gulf Coast.

## **Category Three Hurricane:**

Winds 111-130 mph (96-113 kt or 178-209 km/hr). Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the center of the hurricane. Flooding near the coast destroys smaller structures with larger structures damaged by battering from floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required. Hurricanes [Roxanne](#) of 1995 and [Fran](#) of 1996 were Category Three hurricanes at landfall on the Yucatan Peninsula of Mexico and in North Carolina, respectively.

## **Category Four Hurricane:**

Winds 131-155 mph (114-135 kt or 210-249 km/hr). More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the center of the hurricane. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km). [Hurricane Luis](#) of 1995 was a Category Four hurricane while moving over the Leeward Islands. Hurricanes [Felix](#) and [Opal](#) of 1995 also reached Category Four status at peak intensity.

## **Category Five Hurricane:**

Winds greater than 155 mph (135 kt or 249 km/hr). Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the center of the hurricane. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required. [Hurricane Mitch](#) of 1998 was a Category Five hurricane at peak intensity over the western Caribbean. [Hurricane Gilbert](#) of 1988 was a Category Five hurricane at peak intensity and is one of the strongest Atlantic tropical cyclones of record.





Appendix G:  
Consultative Guidance for Implementation of  
Public Shelter Design Criteria

## **Appendix G – Consultative Guidance for Implementation of Public Shelter Design Criteria**

### **G.0 PUBLIC SHELTER DESIGN CRITERIA**

The public shelter design criteria, which are also known as the EHPA criteria, were developed to ensure that appropriate new educational facilities can serve as public hurricane evacuation shelters. The EHPA criteria provide supplemental code provisions to existing applicable codes and standards. The EHPA criteria are performance-based, with limited prescriptive options provided to serve as a guide toward achieving the required level of performance.

The SREF public shelter design criteria are promulgated in section 423.25, *Florida Building Code—Building* (FBC). This section of the code applies to public schools (K-12) and community colleges. The Division also recommends use of the EHPA criteria for new state university, and other state, local and privately-owned facilities that are suitable to serve as public hurricane evacuation shelters.

The EHPA criteria were also prepared to ensure that new educational facilities could meet or exceed applicable national design and construction standards, guidelines and “best practices.” In particular, the American Red Cross’ ARC 4496 must be consulted during the planning and design process for an EHPA; see Appendix C. ARC 4496 is the minimum hurricane shelter criteria used by the Division, American Red Cross and local emergency management officials for surveying, evaluating and designating public hurricane shelters.

ARC 4496 can also be viewed at the following web address:

<http://www.floridadisaster.org/Response/engineers/documents/newarc4496.pdf>

Limited guidance is also provided to assist with design of EHPA’s when pre-designated as Special Needs Shelters (SpNS). There currently aren’t any consensus codes and standards published specifically for SpNS’s. However, the guidance included in this Plan is consistent with policies and recommendations distributed by the Department of Health.

### **G.1 EHPA Occupancy Period**

For planning purposes, the EHPA is assumed to be occupied at its maximum occupant capacity for, at a minimum, a continuous eight (8) hour period during impact by a major hurricane (i.e., Category 3 or higher). Off-site and unprotected on-site structures and utilities must be assumed to be inoperable, damaged or destroyed.

Though the EHPA criteria assume an 8-hour design occupancy period, hurricane evacuation shelters may be occupied for six to 12 hours in advance of arrival of hurricane force winds, and six to 12 hours (or longer) after hurricane force winds subside. Boards, design professionals and emergency managers should consider this fact during the design

of an EHPA. A design planning guide of 24 hours at maximum occupant capacity of the EHPA may be more appropriate. A minimum design occupancy of 24 hours is also consistent with the International Code Council's *Standard on the Design and Construction of Storm Shelters* (ICC 500).

## **G.2 Structural Requirements**

The wind load performance objective of modern building codes and standards is to prevent or reduce deaths and injuries within the built environment. This is achieved through design and construction of buildings such that, under design loads, primary load carrying systems remain stable and do not collapse. Survival without collapse implies that occupants should be able to find an area of relative safety inside the structure during a severe wind event. Localized damage, breach of the structural envelope and flow of wind through the structure and water damage are acceptable. However, this design philosophy is not necessarily acceptable for public hurricane shelters (and certain other essential facilities).

Hurricane Andrew and other subsequent major hurricanes demonstrated that the potential exists for hundreds of shelter occupants to find themselves scrambling for safety as the structural envelope of a designated public shelter progressively disintegrates. This scenario is unacceptable to emergency management and other public officials. The EHPA criteria were developed to significantly enhance the safety of public hurricane shelters, and enhance their ability to survive and continue to serve the public after exposure to a major hurricane. Therefore, the performance expectation for EHPA's is that not only the structural frame resist collapse in a Category 3 or greater hurricane, but that the exterior envelope components, cladding materials and assemblies must also remain sufficiently intact to protect building occupants and preserve the mass care function.

**G.2.1 Wind Loads.** EHPA's are required to be designed and constructed in accordance with the wind load provisions of the American Society of Civil Engineers Standard 7, *Minimum Design Loads for Buildings and Other Structures* (ASCE 7). The minimum design wind speed is per ASCE 7's basic wind speed map, and using the importance factor (*I*) for an Occupant Classification Category III or IV (essential facility). Also, to ensure that the EHPA remains an enclosed structure (and avoid a partially enclosed condition, which would invalidate the design), building openings are also required to withstand impact by windborne debris in accordance with *Test Standard for Determining Resistance From Windborne Debris SSTD 12* (SSTD 12).

The selection of an appropriate design wind speed is critical to the performance of public hurricane shelters. ASCE 7's wind speed map is based upon approximately a 100-year recurrence level. The Category III/IV importance factor (1.15) is used to adjust the wind speed design up to about a 200-year recurrence level to account for a greater degree of hazard due to the nature of a facility's occupancy. This is the minimum wind design and construction requirement for EHPA's, and reflects the **minimum** national design standard for designated hurricane shelters.

However, the EHPA code provisions highly recommend that the ASCE 7 map wind speed be increased by 40 miles per hour, with an importance factor of 1.00. The Division also highly recommends the 40 mile per hour increase in base wind speed. The 40 mile per hour increase in base wind speed translates into wind designs of as high as 190 miles per hour in south Florida, to as low as 140 miles per hour in inland north-central Florida. The 40 mile per hour increase in base wind speed is used to adjust the wind speed design up to about a 1,000-year recurrence interval, and is consistent with the Department of Energy’s DOE-STD-1020 hurricane wind Performance Category (PC) 3 criteria. Figure G-1 illustrates a 1,000-year recurrence interval wind speed map for Florida. The Department of Energy’s enhanced performance expectations are that its facilities not only resist collapse, but that occupants, critical equipment and contents be protected from wind, windborne and falling debris, rainwater intrusion, and continue to maintain operation as an essential facility. The Department of Energy’s enhanced performance expectations are more consistent with public hurricane shelter design and construction performance expectations than ASCE 7’s minimum design standard.

DOE-STD-1020-2002 can be viewed at the following web address:

<http://www.floridadisaster.org/Response/engineers/documents/STD-10202002.pdf>

Another consideration when selecting a design wind speed is differences between ASCE 7 and hurricane intensity wind speed measurements. ASCE 7’s basic wind speed map uses a 3-second gust wind measurement method. However, the National Hurricane Center (NHC) and National Weather Service (NWS) categorize hurricanes using the Saffir-Simpson Hurricane Intensity Scale, which uses a one-minute sustained wind measurement method. Table G-1 provides a comparison of common wind measurement methods. For comparison purposes, visualize an anemometer (measures wind force and velocity) with Table G-1 representing concurrent scales on its wind speed display dial, similar to a vehicle speedometer that registers vehicle speed in both miles per hour and kilometers per hour. The anemometer will read about 135 miles per hour on the 3-second gust scale when the 1-minute sustained scale reads 111 miles per hour.

<b>TABLE G-1. Equivalent Basic Wind Speeds</b>						
Wind Speed Conversion						
3-second gust, fastest-mile and 1-minute sustained velocities (mph)						
<b>Wind Measurement Method</b>	<b>Saffir-Simpson Hurricane Intensity Scale</b>					
	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>	<b>Category 4</b>	<b>Category 5</b>	<b>Extreme Category 5</b>
<b>3-second Gust</b> (ASCE 7 and 2004 Florida Building Code)	90	117	135	160	190	230
<b>Fastest-Mile</b> (Standard Building Code)	75	100	117	141	170	209
<b>1-minute Sustained</b> (National Hurricane Center)	74	96	111	131	156	188

The NHC defines a major hurricane as one that achieves Category 3 or higher intensity on the Saffir-Simpson Scale; see Appendix F for hurricane category definitions. National guidance also indicates that all of Florida is subject to exposure to major hurricane conditions, with some locations in South Florida and the panhandle regions especially susceptible to severe hurricanes. Therefore, to ensure that public hurricane shelters are designed and constructed to resist major hurricanes, the 40 mile per hour increase in base wind speed is critical to achieve the EHPA performance expectation. Table G-2 provides a comparison summary of hurricane shelter performance objectives to be considered when selecting an appropriate design wind speed.

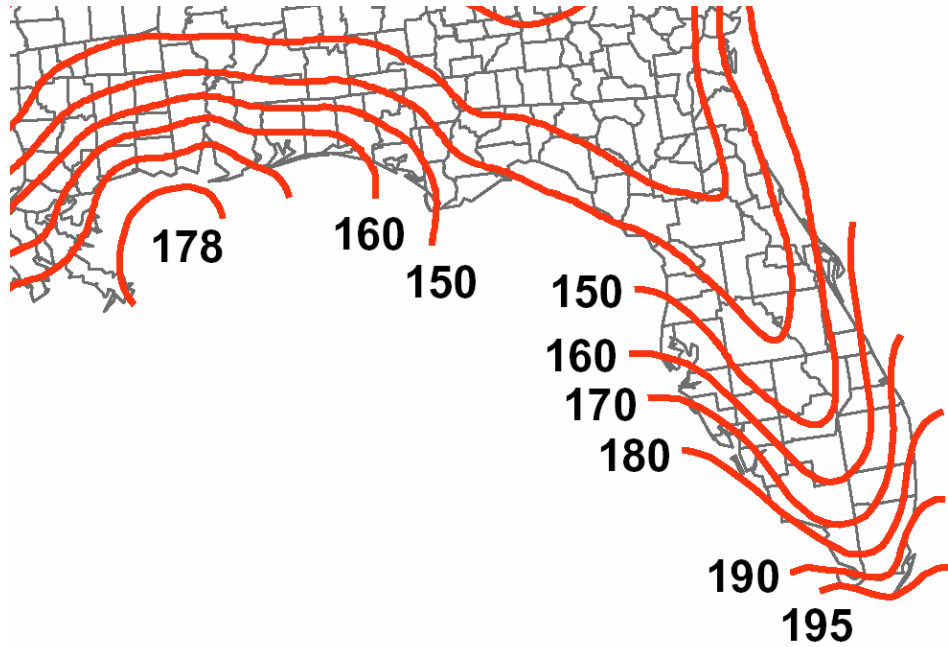
The 40 mile per hour increase in design wind speed is especially important for certain types of buildings. Buildings with tall exterior walls, long span lightweight roof systems, wide roof overhangs, located in open areas with minimal sheltering, etc., are particularly vulnerable to damage in “design-level-events.” The Division strongly recommends use of the 40 mile per hour increase in design wind speed for buildings that possess these characteristics.

The Division also recommends use of exposure C when calculating wind design load, regardless of the design wind speed selected or the environmental conditions surrounding the proposed facility. Both ASCE 7 and the FBC permit use of exposure B in areas more than a mile from the coast, which can significantly reduce the required design capacity of a facility. Use of exposure B is an unconservative approach, which is inconsistent with hurricane shelter performance expectations. Severe hurricanes, like Hurricane Andrew, tend to scour the environment by blowing over trees and flattening lightweight or poorly constructed structures. This scouring reduces the sheltering effect of a facility’s normal environment. Severe hurricanes can also produce “micro-burst” and weak to moderate tornado-type damage, which can devastate a small area and negate the influence of any local environmental sheltering. Therefore, for consistency with ICC 500 and the Federal Emergency Management Agency’s (FEMA) publication *Design and Construction Guidance for Community Shelters* (FEMA 361), the Division recommends use of exposure C when calculating design wind load.

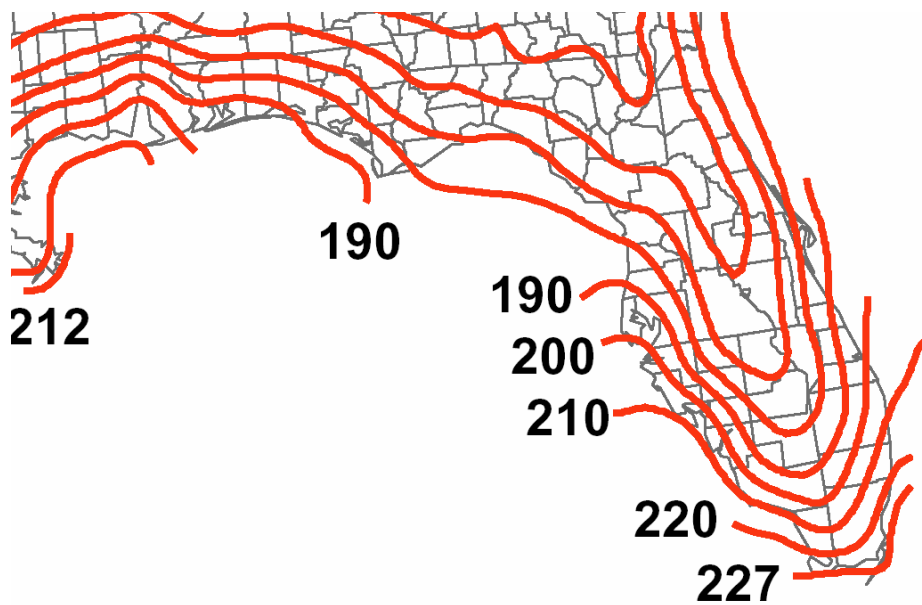
The EHPA code recommended 40 mile per hour increase in design wind speed is not intended to achieve a near-ultimate (or “near-absolute”) level of protection for building occupants. However, it does provide an “enhanced” (or intermediate) level of protection between minimum ASCE 7 design requirements and near-ultimate levels of protection. Both the ICC 500 and DOE-STD-1020 category PC-4 base their near-ultimate hurricane wind designs on 10,000-year recurrence interval events; i.e., a one (1) percent or less chance of occurrence during the life of a structure. Figure G-2 illustrates a 10,000-year recurrence interval wind speed map for Florida. FEMA 361 uses a tornado based design to achieve near absolute protection; i.e., 200 mph EF 4 tornado is the design basis for Florida.

The EHPA criteria also require that roof assemblies remain waterproof (i.e., rain tight) to preserve the emergency management function. Therefore, roof weather membranes (or secondary rain barriers) must meet the wind load requirements.

**Figure G-1. 1,000-year Wind Recurrence Map for Florida**  
Source: International Code Council



**Figure G-2. 10,000-year Wind Recurrence Map for Florida**  
Source: International Code Council



**G.2.2 Windborne Debris Impact.** All exterior surface components and cladding materials of EHPA's, and their supporting assemblies, are required to resist windborne debris impact. This includes walls, roofs, windows, skylights, glass block, doors, louvers, etc. This requirement is applicable to all EHPA's, regardless of proposed siting in a location outside of the normal windborne debris regions prescribed in ASCE 7 or the FBC. The minimum debris impact standard is SSTD 12. That is, the pertinent cladding materials and assemblies must, at a minimum, resist penetration by a nominal 2"x4" lumber plank weighing nine (9) pounds propelled at 34 miles per hour and striking "end-on" and perpendicular to the assembly. Though not specifically cited in section 423.25.4.1, FBC, windborne debris impact resistant assemblies meeting the requirements of section 1609.1.4, FBC (i.e., ASTM E 1886 and ASTM E 1996, or Miami-Dade TAS 201, 202 and 203) are recognized by the Division as suitable alternatives. Table G-2 provides a comparison summary of hurricane shelter performance objectives to be considered when selecting an appropriate windborne debris impact standard. Construction assemblies that are "deemed to comply" with section 1626, FBC, are also considered suitable. For guidance on additional types of assemblies that have been tested and passed large missile performance criteria, please see Appendix K.

However, please note that the Department of Education has stated that roof assemblies must be tested and certified to meet SSTD 12 as an assembly. This applies to district school board and community college facilities. With the exception of code prescribed concrete deck assemblies, "deemed to comply" assemblies will not be approved by the Department of Education. Therefore, "deemed to comply" assemblies are only applicable to other state and local agency facilities.

The Florida Department of Education's list of approved roof decks can be found at the following web address:

<http://www.fldoe.org/edfacil/formsplanreview.asp>

The Division recommends that facilities that may be subjected to an unusual barrage of heavy debris and building wreckage incorporate a more rigorous debris impact standard. This includes facilities that are located within 300 feet of significant exposure to unanchored large object debris sources or poorly constructed/partially engineered buildings. An example is an EHPA facility proposed to be located adjacent to a partially engineered unreinforced masonry building; portions of roof and wall materials, roof top equipment and building contents may be entrained into the wind field as the weak building disintegrates under severe wind loads. This heavy debris can have devastating impacts upon inadequate roof and wall components, cladding materials and assemblies, and potentially create significant breaches in the shelter building's structural envelope. Also, intrusion of heavy debris through the shelter building's envelope can present a hazard to building occupants.

For unusual windborne debris hazard exposure, the Division, at a minimum, recommends the hurricane wind hazard debris impact resistance criteria published in DOE-STD-1020, or equivalent performance standard. DOE-STD-1020 requires that the



facility's exterior envelope components, cladding materials and assemblies resist penetration by a nominal 2"x4" sawn lumber plank weighing 15 pounds propelled at 50 miles per hour and striking "end-on" and perpendicular to the assembly; or as an alternative, a nine (9) pound 2"x4" propelled at about 80 miles per hour. This is about a 135 percent increase in impact momentum over SSTD 12's basic large missile impact standard. There are products on the market that have been (or could be) certified to this level of performance, and DOE-STD-1020 provides "deemed to comply" type guidance for roof and wall assemblies. FEMA 361 also provides debris impact design guidance for facilities located in areas potentially exposed to extreme intensity wind events and extraordinary debris impact loadings.

<b>Table G-2. Summary of Wind Storm Design Criteria</b>						
Crosswalk of ASCE 7, EHPA, DOE-STD-1020, and ICC 500 Performance Criteria						
<b>Performance Category</b>	<b>X</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Wind Hazard Return Period (years)</b>	< 100	≤ 100	100	200	1,000	10,000
<b>Wind Design Criteria</b>	Does not meet ARC 4496	Code plus meets ARC 4496	ASCE 7 or Code, plus ARC 4496	ASCE 7, essential facility plus ARC 4496	ASCE 7 plus ~40 mph	ASCE 7 plus ~70 mph
<b>Design Wind Speed, V (mph), 3-second gust</b>	< 90	100±	100 -150	100-150 (tornado @ 150)	140-190 (tornado @ 160+)	170-220 (tornado @ 200+)
<b>Importance Factor, I</b>	≤ 1.00	≤ 1.00	1.00	1.15	1.00	1.00
<b>Exposure Category</b>	N/A	N/A	Code	ASCE 7 (Exposure C recommended)	ASCE 7 (Exposure C recommended)	C
<b>Directionality Factor, Kd</b>	N/A	N/A	Code	ASCE 7 (0.85)	1.00	1.00
<b>Internal Pressure Coefficient, GCpi</b>	N/A	N/A	Code	ASCE 7 (hurricane @ ±0.18, or tornado @ ±0.55)	ASCE 7 (hurricane @ ±0.18, or tornado @ ±0.55)	ASCE 7 (hurricane @ ±0.18, or tornado @ ±0.55)
<b>Load Combinations</b>	N/A	N/A	Code	ASCE 7	ASCE 7	ASCE 7**
<b>Hurricane Windborne Debris Impact Criteria</b>	N/A	Equivalent to 7/16" plywood; max. height 30* ft.	2x4 timber plank, 9 lb @ 34 mph; max. height 30* ft.	2x4 timber plank, 9 lb @ 55 mph; max. height 60* ft.	2x4 timber plank, 15 lb @ 50 mph or 9 lb @ 75 mph; max. height 60* ft	2x4 timber plank, 15 lb @ 50 mph or 9 lb @ 90 mph; max. height 60* ft
<b>Tornado Windborne Debris Impact Criteria</b>	N/A	N/A	N/A	2x4 timber plank, 15 lb @ 80 mph; max. height 150* ft.	2x4 timber plank, 15 lb @ 84 mph; max. height 150* ft.	2x4 timber plank, 15 lb @ 90 mph; max. height 200* ft.
* - Glazed openings in exterior envelope of hurricane shelters and critical support areas located above large missile protection height indicated in this table should at a minimum resist penetration to small missile standards.						
** - For PC 4, applicable ASCE 7 basic load combinations of sections 2.3.2 and 2.4.1 may be modified per section 302, ICC 500 (when published); section 5.4, FEMA 361; or sections 3.2.3 and 3.2.4, DOE-STD-1020.						

In addition to ASCE 7, the EHPA criteria, DOE-STD-1020-2002 and FEMA 361, it should be noted that the PC 3 and PC 4 design wind speeds and hurricane windborne debris impact criteria illustrated in Table G-2 are partially based on data considered by the ICC storm shelter committee during development of ICC 500. As an example, for hurricane shelters the ICC committee selected a nine pound 2"x4" sawn lumber plank as the representative debris missile for hurricanes, regardless of basic design wind speed velocity. Only the tornado design criteria will use the 15 pound missile. However, the 9 lb 2x4's test velocity is based on a percentage (40 percent) of the shelter's design wind speed, so the missile's required minimum test velocity changes with geographic location of the shelter; i.e., missile speed of 64 mph in the 160 mph wind zone of north Florida to 90 mph in the 225 mph wind zone of the Florida Keys.

The design professionals-of-record should consider the fact that occupants of EHPA's may open doors and windows during hurricane conditions. This human behavior was often reported during the 2004 hurricane season; see section G.2.5 for additional information. The basic design criteria for essential facilities, including EHPA's, assumes a substantially enclosed structure with controlled air movement and pressure changes (positive and negative). Though it is not known if occupants would purposely open fenestrations during a near design-level-event, designers should consider the effect that opening of the largest operable door or window would have on an EHPA's enclosure classification. If the enclosure classification changes due to the opening, the designer should consider possible mitigation measures (e.g., partially enclosed design classification, construction of air-trap/air-lock vestibules, access-limiting measures, etc.)

**G.2.3 Foundations and Floor Slabs.** The finished floor elevation of EHPA's and their essential life safety and emergency support systems are required to be elevated above the maximum storm surge inundation elevation associated with a Category 4 hurricane event. In multistory or elevated buildings, this applies to the lowest EHPA floor. The storm surge elevations are identified by reviewing the most current Sea, Lake and Overland Surges from Hurricanes (SLOSH) studies and atlases.

Some computer-based SLOSH models are also available, such as SLOSH Display Program version 1.40. These models list several elevations based upon "hurricane scenario," which includes storm intensity, forward speed and track. It is not uncommon for a site located in a Category 4 or 5 storm surge zone to be listed as "dry" for all but a few scenarios, and could possibly be dry for all scenarios due to elevation of local grade. The EHPA design requirement is the highest elevation listed for a Category 4 hurricane event.

The Division's minimum recommendation for rainfall flood design elevation for EHPA's is ASCE *Flood Resistant Design and Construction* (ASCE 24) Classification Category IV, Essential Facility. That is, the minimum elevation must be at least one (1) foot above base flood elevation (BFE) or a community's Design Flood Elevation, whichever is greater. However, where determined, the lowest habitable EHPA floor elevation should be at or above the 500-year flood elevation.

**G.2.4 Certifications.** Board and emergency management agencies have often found that it is difficult, if not impossible, to document that a facility was designed and constructed to the EHPA criteria after the passage of time. Construction drawing notes often do not provide the required information, and building officials, design professionals-of-record, constructors, product manufacturers and providers, and other relevant agents move on to other projects. Maintaining a viable record to certify that a facility has been designed and constructed to meet the EHPA criteria is critical.

The following information is needed by emergency managers to document that a facility is an EHPA:

1. Statement that the wind design conforms to the provisions of the Public Shelter Design Criteria, Section 423.25, Florida Building Code with year of revision specified
2. Statement that the building or EHPA, as applicable, is capable of withstanding or exceeding wind loads according to ASCE 7 structural design criteria (this statement is essential for ARC planners)
3. Basic Wind Speed, mph
4. Wind Importance Factor ( $I$ )
5. Wind Exposure
6. Wind Directionality Factor ( $K_d$ )
7. Internal Pressure Coefficient ( $GC_{pi}$ )
8. Provide documentation that windows, doors and other exterior components comply with SSTD 12 or other applicable performance standards (e.g., ASTM E 1886 and E 1996, FBC High Velocity Hurricane Zone testing protocols TAS 201, 202 and 203, etc.); documentation may include large missile impact product approval notice(s), certified lab test results, etc.
9. Floor plan drawing or image indicating location of EHPA portions of the facility; includes drawing or image indicating the entire facility when applicable

The documentation can be provided in the form of a certification statement letter or memorandum, or as a note page within the construction drawings of record. It is requested that the design professionals-of-record sign and seal the certification document(s), and forward the certification to the board, local emergency management agency and Division.

**G.2.5 Observations from the 2004 and 2005 Hurricane Seasons.** Following the 2004 and 2005 hurricane seasons, federal, state and local building code and mitigation assessment teams observed the types of damages found in the most heavily impacted areas of Florida. In general, the impacted EHPA's performed in a manner similar to other recently constructed light commercial facilities. That is, there were no observed structural failures but improvements were recommended for cladding integrity and weather protection. In particular, roof coverings, light metal wall coverings, soffits and door hardware damage led to rainwater intrusion.

The following is a summary of selected recommendations for critical/essential facilities (which includes shelters):

1. To better ensure adequate performance of shelters, the 40 mile per hour increase in base wind speed should be required and not just “highly recommended.”
2. Ensure that appropriate ASCE 7 Exposure Categories are selected during the design process; ensure full wind loads are calculated in open areas (Exposure C) where reductions are not appropriate.
3. The minimum windborne debris impact criteria should be increased from the current SSTD 12/ASTM E 1996 Level D (9 lb 2”x4” @ 34 mph) basic protection to the essential facility Level E (9 lb 2”x4” @ 50 mph) enhanced protection.
4. Assure code compliance through increased enforcement of construction inspection requirements, such as the Threshold Inspection Law.
5. It was recommended that designers calculate loads on building envelope cladding and components (including soffits), roof coverings and roof top equipment and specify/detail adequate attachments to resist the loads. A minimum safety factor of 2 is typically recommended.
6. For roof coverings, a secondary weather-resistant underlayment is recommended to improve rainwater intrusion protection.
7. Designers should clearly indicate on the construction drawings the area of the facility that was designed to function as the high wind shelter or hardened core area.
8. Perform follow-up inspections every five years or after a hurricane to identify interior moisture damage that may affect the structure or building envelope.
9. It was recommended that designers consider and use guidance found in *Design Guide for Improving School Safety in Earthquakes, Floods and High Winds* (FEMA 424).

To view the full Hurricane Charley and Hurricane Ivan Mitigation Assessment Team Reports, please see FEMA 488 and 489 at the following web addresses:

<http://www.fema.gov/fima/mat/fema488.shtm>

<http://www.fema.gov/fima/mat/fema489.shtm>

Also, FEMA 424 can be viewed at the following web address:

<http://www.fema.gov/fima/rmsp424.shtm>

There was one finding during the 2004 hurricane season that is related to human behavior that could increase the vulnerability of shelters. About forty (40) percent of the sites reported that persons (evacuees, shelter staff and managers, and public safety officials) purposely opened windows and doors during hurricane conditions. The reasons for the openings varied from admittance of late arrivals, to smoking, distribution of food

and other supplies, fresh air ventilation, and equipment repairs or maintenance. Buildings are designed to be enclosed structures, and openings of possibly as small as one (1) percent of a building's exterior envelope can cause internal pressures that exceed original design loads. This essentially negates the benefits of any added window protection.

In less intense storms, such as the conditions experienced by most of the shelters in 2004, the effects caused by the openings were minimal, with occupants experiencing only minor atmospheric pressure changes and a temporary, but exaggerated, creaking of lightweight roof decks (e.g., metal). However, when doors were opened on building sides perpendicular to or opposite the windward facing walls, the doors occasionally were pulled open violently by suction forces. This may have damaged some doors making them impossible to re-close, and in one case may have broken a door window pane. For additional findings specific to occupied hurricane shelters during the 2004 season, please see Chapter 5, Performance of Public Shelters during the 2004 Hurricane Season, of the *2005 Shelter Retrofit Report*. The *2005 Shelter Retrofit Report* can be viewed at the following web address:

<http://floridadisaster.org/documents/SRR05.pdf>

**G.2.6 Roof Rainfall Drainage.** The EHPA criteria requires that roof drain systems be sized for normal use (i.e., 100-year, 1-hour rainfall design per FBC—Plumbing, Figure 1106.1), and when applicable also required to have additional emergency overflow scuppers that can accommodate a two (2) inch per hour rainfall rate. However, this emergency overflow capacity can be less than that required by Chapter 11, FBC—Plumbing. The Division recommends that where Section 1107, FBC—Plumbing applies to an EHPA roof (i.e., drainage confining roof perimeter construction or parapets), that at a minimum the secondary (emergency) roof drains or scuppers be designed/sized per Chapter 11, FBC—Plumbing (ranges from 4.3 to 5 inches). The designer may also want to consider a higher 1-hour rainfall rate than required by FBC. For public hurricane shelters, the Division recommends a minimum of an eight (8) inch, 1-hour rainfall rate. This is approximately a 2,000-year, 1-hour recurrence rainfall rate for Florida, so a very low probability event.

### **G.3 Location and Site Requirements**

**G.3.1 Emergency Access.** EHPA's are required to have at least one major means of access for emergency vehicles that is above the 100-year floodplain. However, this requirement may be impractical in some areas due to generally low-lying topography. Therefore, this requirement can be waived by the board with concurrence of the local emergency management agency or the Division. A potential EHPA with access routes below the 100-year floodplain may be subject to isolation due to hurricane rainfall flooding, and should be reviewed as a potential exemption request per section 2.2.1 of this Plan.

**G.3.2 Landscaping and Parking.** Landscaping around the EHPA must be designed to preserve safety and emergency access. Trees must not conflict with overhead or underground utilities, including electricity, telecommunications, potable and wastewater, natural gas, etc. Trees, utility poles or other tall structures are required to be located to avoid lay-down or impact hazard for the EHPA and its occupants. The Division recommends that trees located within 50 feet of an EHPA be limited to trunk diameters that do not exceed about six (6) inches at maturity. This recommended standoff distance will prevent medium-size trees from inflicting battering damage to EHPA roofs, walls, windows and doors and reduce the potential for entry and egress door blockage.

Trees that exceed 12 inch trunk diameters cause most of the lay-down impact damage to buildings. Therefore, the Division recommends that trees that typically exceed 12 inches in diameter at maturity should be located with a standoff distance of more than 100 feet from their base to the closest potential impact point of an EHPA's outside perimeter wall; preferably a standoff distance of more than 115 feet. However, due to their relatively greater height potential, pine trees (e.g., Slash, Spruce, Shortleaf, Longleaf, Loblolly, etc.) should be located with a standoff distance of more than 125 feet from the EHPA; preferably a standoff distance of more than 140 feet.

Tall tree species in Florida typically have trunk diameters at breast height (about four feet from the ground) of 12 to 36 inches and trunk heights of about 60 to 140 feet. Some species with continued growth may significantly exceed a trunk diameter of 36 inches, but seldom exceed heights of 140 feet. For planning purposes, with the exception of pine trees, the ratio of maximum expected (mature) tree diameter in inches to the total tree height in feet is about 1:3.5 (+/- 15%). As an example, for planning purposes, trees that can grow to a trunk diameter of 24 inches will reach a height of about 84 feet (+/- 13 feet). Pine trees have a greater height to diameter ratio than other tree species, which is closer to 1:4 (+/- 15%). These planning guides are useful for most tall trees (e.g., pine, oak, hickory, magnolia, maple, pecan, sycamore, etc.) that may pose a lay-down hazard to an EHPA during its expected life.

Structures, equipment and other objects within 300 feet of the EHPA's perimeter should be anchored to avoid generating large windborne, falling or roll-over debris. Vehicles must be parked more than 50 feet from the perimeter of the EHPA during hurricane conditions.

**G.3.3 Rainfall Drainage.** The civil designer may also want to consider the potential for exceptionally high rainfall rates that will exceed normal site drainage design standards. The following are select maximum single-day (24 hour) rainfall records for locations in Florida:

Pensacola – 11.68 inches  
Crestview – 11.44 inches  
Apalachicola – 10.67 inches  
Tallahassee – 8.86 inches  
Jacksonville – 6.33 inches  
Yankeetown – 38.7 inches (Florida Record)

St. Petersburg – 15.45 inches  
Tampa – 11.45 inches  
Orlando – 8.19 inches  
Fort Myers – 9.92 inches  
West Palm Beach – 15.22 inches  
Miami – 12.56 inches  
Key West – 22.75 inches

Other extreme rainfall events of note for the United States:

Alvin, TX (1979) – 43 inches  
Dauphin Island, AL (1997) – 32.5 inches  
Hackberry, LA (1962) – 22.0 inches  
Americus, GA (1994) – 21.1 inches

During slow-moving large “wet” hurricanes, a 10 to 20 inch or greater rainfall event is quite possible. The designer should consider the impact that flooded parking lots, overwhelmed storm drains and retention ponds, closed basin ponding, riverine and sheetflow flooding, and dam or reservoir containment failure may have on an occupied EHPA.

An essential performance requirement of hurricane shelters is that they not be inundated by rainfall flooding. For design purposes, the Division recommends that the EHPA’s civil designer consider the effects of an extraordinary event on the site drainage design. The designer should assume pre-hurricane saturated soil conditions and at-capacity drainage retention structures, then apply a hurricane-caused single-day rainfall event of about 30 inches. This is approximately a point maximum 2,000-year, 24-hour recurrence rainfall rate (1 sq.mi. basin) for most of Florida, so a very low probability event.

#### **G.4 Hurricane Shelter Capacity**

A minimum of fifty percent of the net square feet of certain types of rooms and spaces (referred to as “included spaces”) of new educational facilities are required to be constructed to meet the EHPA criteria. The calculated EHPA capacity is used by board staff, emergency managers and design professionals to determine the shelter occupant capacity and infrastructure-related requirements (potable water, toilets, sinks, parking, etc.) EHPA’s may be located in a single large room or a combination of rooms, located on one or more stories, and possibly in more than one building. To begin the EHPA capacity calculation process, identify those rooms or spaces that are to be excluded. Section 423.25.3.1, FBC and s. 252.385(4)(b), F.S. serve as guides for identifying excluded space.

The following is a summary of the excluded spaces:

**Excluded Spaces.** Spaces such as mechanical, plumbing, electrical, telecommunication and information technology utility equipment rooms, storage rooms and closets, exterior/outside circulation and corridors, restrooms and shower areas, kitchen and food preparation rooms, science labs, computer and information technology labs, vocational and industrial technology labs and shops, library and media rooms and labs, administrative office and support areas, record vaults, attics and crawl spaces.

**Included Spaces.** All other rooms and areas not listed as an excluded space.

To determine the net square feet of EHPA floor area, subtract the floor area square feet of excluded spaces from the gross square feet of the facility. The board, with the concurrence of the local emergency management agency or the Division may adjust the list of excluded/included spaces or the formula for calculation of design capacity.

To be consistent with the Division's statewide hurricane shelter survey and retrofit program, the capacity of an EHPA may be based upon "net usable floor area" in lieu of net floor area. Net usable floor area is defined as follows:

**Net Usable Floor Area.** Floor area of included spaces reduced to account for partitions and walls, columns, fixed or movable objects, furniture, equipment or other features that under probable conditions cannot be removed or stored during use as a hurricane shelter.

The following empirical reduction factors can be used to determine net usable floor area:

1. Reduce the gross floor area of assembly areas with concentrated furnishings or fixed seating by 50 percent. Examples are auditoriums, amphitheater classrooms, etc. To calculate a room's net usable floor area, multiply gross floor area by a **reduction factor (RF)** of 0.50.
2. Reduce the gross floor area of assembly areas with unconcentrated furnishings and without fixed seating by 35 percent. Examples are conference rooms, educational classrooms and skills labs, dining areas, band and music rooms, etc. To calculate a room's net usable floor area, multiply gross floor area by a RF of 0.65.
3. Reduce the gross floor area of assembly areas with open floors and without fixed seating by 15 percent. Examples are gymnasiums, dance floors, exhibition galleries, open multipurpose rooms, interior/inside circulation corridors and areas, etc. Retractable seating is not considered fixed seating. To calculate a room's net usable floor area, multiply gross floor area by a RF of 0.85.

A more comprehensive list of Department of Education room design codes, descriptions and RFs is available in Appendix H. Reduction values listed are empirical in that they are based upon large-scale typical conditions. Boards, local emergency



management agencies and design professionals may adjust the empirical reduction factors to address site-specific conditions.

The capacity of an EHPA is calculated using 20 square feet per occupant. The FBC formula is as follows:

$$\text{(Gross Floor Area, sq.ft. - } \Sigma \text{ Excluded Floor Areas, sq.ft.)} / 20 = \text{Occupant Capacity}$$

To calculate occupant capacity based upon net usable floor area, the formula is:

$$\Sigma \text{(Included Gross Floor Areas, sq.ft. x RF)} / 20 = \text{Usable Occupant Capacity}$$

The designer should be aware that SpNS “client” occupant capacity is based upon 60 square feet per client. The 60 square feet includes an allowance for care-givers, medical staff, medical equipment and supplies, and a cot or bed. Therefore, no additional space allowance is required for these personnel or material.

It should be noted that in an emergency, on a short-term basis during hurricane conditions, the American Red Cross and emergency management officials may temporarily reduce the occupant floor area requirement to 15 square feet per occupant. This emergency contingency measure does not affect the EHPA criteria’s requirement to use 20 square feet per occupant to calculate design capacity.

## **G.5 Plumbing and Sanitation**

It is essential that the EHPA remain a safe and sanitary environment. The plumbing and sanitary provisions of the EHPA criteria are primarily based upon the American Red Cross’s publication *Mass Care—Preparedness and Operations* (ARC 3041). ARC 3041 requires that emergency shelters, regardless of cause(s) necessitating their need, provide a minimum level of service.

In general, support systems for toilets, sinks and other essential water distribution and disposal systems are required to be capable of supplying water and containing waste for the design capacity of the EHPA. Plumbing and valve systems of toilets and sinks within the EHPA may be designed for conversion to emergency operation to meet the required demand. The method selected to achieve the required level of performance is at the discretion of the board, design professionals and emergency management agencies.

It should be noted that EHPA plumbing and sanitation design requirements should not be reduced for pre-designated SpNS facilities. SpNS client capacity is calculated based on 60 sq.ft. per client instead of the 20 sq.ft. used for the general population. This may give the appearance of a reduced design load for critical support systems. However, the 60 sq.ft. includes an allowance for care-givers and the additional medical staff necessary for operating the shelter. Therefore the plumbing and sanitary systems must be designed to accommodate a loading condition similar to that found in general population shelters.

**G.5.1 Potable Water.** The EHPA criteria do not specify a minimum potable water requirement. ARC 3041 requires a minimum of five (5) gallons of potable water per person per day for all uses (i.e., drinking water, hygiene, food preparation, etc.) Given that the EHPA planning assumption is 8-hours, or one-third (1/3) of a day, the Division recommends that the minimum potable water requirement be one-third of the ARC’s daily requirement, or 1.67 gallons (6.3 liters or 0.223 cubic feet) per person for all uses. A minimum of two quarts (1/2 gallon or 2 liters) per person should be for drinking water purposes. As an example, an EHPA with a design occupant capacity of 250 persons (includes both evacuees and management staff) will require a minimum of 418 gallons (1,580 liters or 55.8 cubic feet) of potable water. This is a relatively small quantity of water if it must be extended for more than 24 hours, so conservation measures are recommended (i.e., identify and provide access to sources for clean non-potable water for toilet flushing and certain other hygiene activities, etc.)

It should be noted that both the shelter environment (temperature and humidity) and physical condition/health of evacuees (e.g., age, diet, medications, pregnancy/nursing, etc.) can significantly affect drinking water needs. Table G-3 can be used as a guide to estimating minimum drinking water needs as shelter temperatures rise.

<b>Table G-3. Estimate of Minimum Daily Drinking Water Needs in Unconditioned Shelters</b>			
<b>Shelter’s Daily Mean Temperature, °F</b>	<b>Daily Drinking Water Needs<sup>1</sup>, quarts (liters)</b>		
	<b>Normal Demand (normal activity or at rest)</b>	<b>Moderate Demand (moderate work load)</b>	<b>High Demand (hard work load)</b>
<b>70 °F</b>	2 (1.9)	3 (2.8)	5 (4.7)
<b>80 °F<sup>2</sup></b>	3.5 (3.3)	5 (4.7)	7.5 (7.1)
<b>90 °F<sup>3</sup></b>	6 (5.7)	8.5 (8.0)	11.5 (10.9)
<b>100 °F<sup>4</sup></b>	8.5 (8.0)	12 (11.4)	15 (14.2)
<sup>1</sup> - Source: <i>Medical Aspects of Harsh Environments, Volume 1</i> , 2001, Chapter 1 Introduction to Heat-related Problems in Military Operations, Figure 1-3 <sup>2</sup> - Caution: 80 - 90°F Fatigue possible with prolonged exposure <sup>3</sup> - Extreme Caution: 90 - 105°F Heat exhaustion possible with prolonged exposure <sup>4</sup> - Danger: 105°F or higher; Heat stroke possible with prolonged exposure			

The potable water can be provided by on-site wells or water treatment package plants, stored in a permanent flow-through tank, or less preferably, stored in temporary containers or bladders. Since temporary systems will be infrequently used (possibly less than once a year), they will require regular maintenance to ensure operational viability. Large volume tanks must also be monitored to assure sufficient chlorine residual. Systems that rely on pumps or other electro-mechanical equipment will require a back-up power supply.

In some circumstances, an alternative to large volume tank storage, and its associated plumbing and valve systems, is on-demand delivery of potable water. If this approach is used, the EHPA will need a delivery and protected storage area for the bulk water. This approach has significant benefits and drawbacks. The benefits are minimal

(or no) construction costs associated with this approach, and there are no recurring maintenance or contamination concerns. The drawbacks are logistical and financial: who is going to be responsible for ordering, receiving, distributing, paying for, and if necessary, disposing of the water in time of need? These issues are not show-stoppers, but require a written agreement to assure operational viability.

**G.5.2 Toilets and Sinks.** Both ARC 3041 and the EHPA criteria require one (1) toilet and one (1) sink per 40 occupants of design capacity. The toilets and sinks can be fixed units incorporated into the EHPA during design and construction, or less preferably portable/temporary toilets and hand washing facilities. The EHPA required toilets and sinks are not in addition to those required for normal school occupancy, and are to be included in the overall facility fixture count. Generally there are sufficient quantities of toilets and sinks required for normal school occupancy capacity to meet the EHPA requirement. The designer will need to consider placement of the fixtures such that the needs of both the normal school occupancy and the EHPA requirements are served.

EHPA required toilets and sinks must be accessible from within the protected area, or must be accessible via a protected passageway that meets the EHPA criteria. Portable chemical toilets may also require separation from occupied spaces and circulation of fresh air. Also, consider how a portable toilet will be delivered, serviced and removed from the facility. This may require a larger door opening than normal and the use of removable door frame mullions.

For pre-designated SpNS facilities, low-profile toilets, sinks and grab bars installed in elementary classroom water closets and toilet rooms are inadequate for adult special needs clients. The Division recommends that the designer incorporate permanent or adaptive structural and fixture size elements that can safely and expediently accommodate adult special needs clients.

**G.5.3 Showers.** Given that the EHPA criteria assume only an 8-hour occupancy, ARC 3041's normal shower requirement can be relaxed. Therefore, showers are not an EHPA code requirement. However, boards and design professionals should consider that post-hurricane recovery shelters normally require one (1) shower per 40 occupants.

**G.5.4 Wastewater.** The EHPA criteria require that the plumbing system be capable of containing (or otherwise disposing of) the wastewater generated by the design capacity occupant load. During the 2004 and 2005 hurricane seasons, about 30 percent of occupied hurricane shelters experienced wastewater/sewage back-up into the facility. It is critical that wastewater be prevented from backing up into the EHPA. This can be accomplished through installation of storage tanks, a wastewater treatment package plant, or other suitable measure.

For those facilities with an on-site wastewater lift station, the lift station reservoir can be sized to meet the storage requirement. The lift station reservoir must be set at a lower elevation than the EHPA to prevent back-up of wastewater into the shelter area. The lift station should also be equipped with an emergency back-up power system to

support drainage into the local utility system. As a contingency, the stored wastewater can be drained and properly disposed of by a mobile pump unit.

Instead of a tank, an alternative is to utilize the waste drain pipe as the storage container. In this method, the pipe is over-sized to accommodate the required volume of waste on the facility side of the back-flow preventer. Wastewater and sewage back-up is normally caused by continued disposal (or flushing) of wastewater into the drain pipe system after the utility side back-flow preventer has closed; the drain pipe has insufficient capacity for continued use. With an over-sized drain pipe, the waste is stored in the pipe until the utility system is restored. A drainage connection or fixture should be incorporated into the drain pipe to accommodate expedient drainage and proper disposal by a mobile pump unit.

The Division recommends that the wastewater system design be based upon a ratio of 1.5 gallons wastewater for every gallon of potable water. In addition to the basic potable water design volume, the 1.5:1 ratio provides extra capacity for solid materials and introduction of non-potable water into the system (e.g., toilet flushing). Thus, based upon a minimum recommended potable water load of 1.67 gallons per occupant, the minimum recommended wastewater capacity is 2.5 gallons (0.334 cubic feet) per occupant. The Division recommends that the reservoir capacity be based upon a 24-hour design occupant capacity instead of the 8-hour design capacity (i.e., 5 gallons per occupant instead of 1.67 gallons). As an example, an EHPA with a design occupant capacity of 250 persons (includes both evacuees and management staff) will require a minimum wastewater storage capacity of 1,875 gallons (250.7 cubic feet).

**G.5.5 Garbage Disposal.** The Division recommends that janitorial service areas be located within the EHPA, and provisions be considered for temporary storage or disposal of solid wastes and garbage.

## **G.6 Electrical and Emergency Power Systems**

Back-up and emergency power provisions are an important feature for hurricane evacuation shelters. Utility electrical power can be disrupted for a few hours to several days (or possibly weeks) following arrival of hurricane conditions. During a utility electrical power outage, EHPA's must remain a safe and sanitary environment. Life-safety systems must continue to function, minimal lighting must be provided to support safe movement, security and emergency egress needs, and adequate ventilation provided to maintain a habitable environment.

At a minimum, the EHPA criteria require installation of an emergency electrical power system with an outlet for coupling to a back-up portable generator. The EHPA criteria do not require installation of a permanent electrical power generator, but rely on emergency battery power and "pre-wiring" the facility's electrical system to accept expeditious and safe installation of a compatible portable generator. Therefore, the minimum EHPA requirement relies upon on-demand delivery of a compatible electrical

power generator. If the on-demand approach is used, the EHPA will need a protected storage area for the generator.

The on-demand approach has significant benefits and drawbacks. The benefits are reduced initial construction costs, minimal recurring maintenance expenses and no fuel-degradation concerns. The drawbacks are logistical and financial: who is going to be responsible for ordering, receiving, installing, maintaining, refueling, redeploying and paying for the generator in time of need? Very few, if any, boards or local government agencies possess an adequate quantity of compatible portable generators to meet EHPA requirements. Also, state and federal agencies do not normally deploy portable emergency power generators until at least 24 hours after impact by hurricane conditions, and in many cases it may be more than 72 hours. These issues are not show-stoppers, but require emergency power provisions be included in board and local facilities and emergency operations plans (and possibly a written agreement) to assure operational viability.

Boards and design professionals must note that state and local emergency management agencies are under no statutory or code obligation to provide portable emergency generator(s) for EHPA's. Boards and design professionals are responsible for developing an appropriate EHPA emergency power capability to maintain a safe and sanitary environment for a minimum of the required 8-hour design occupant capacity.

For facilities that are pre-designated to serve as SpNS facilities, the Division strongly recommends that the emergency power system be designed to accommodate additional branch circuits to support medical equipment, refrigeration of medical supplies and air-conditioning of client occupied areas. These special requirements may exceed basic EHPA design criteria, but post-construction retrofitting to accommodate these requirements is often difficult and costly. The Division strongly encourages the designer to coordinate with local emergency management and county health department staff when designing SpNS facilities.

## **G.7 Emergency Management Considerations**

**G.7.1 Shelter Manager's Office.** The EHPA criteria require that an administrative office be identified for shelter management use and included within the EHPA. The office is required to have provisions for standby power, lighting, communications, main fire alarm control panel and storage for the manager's equipment. Communications may include both internal (within the EHPA) and external (to outside shelter support agencies) communications.

The EHPA criteria do not specify a minimum floor area requirement for shelter management needs. ARC 4496 recommends that shelter management functions be based upon a minimum of 40 square feet per staff person. Therefore, the Division recommends that the shelter manager's office be a minimum of 40 square feet of net floor area, and an additional 40 square feet per assistant manager(s), communications person(s) and equipment storage. As an example, assuming the shelter manager and assistant manager

occupy a single office area with equipment storage, the shelter manager's office should have about 120 net square feet of floor area (i.e., 40 sq.ft. x 3 management functions = 120 sq.ft.) The communications person(s) may be located in adjacent spaces.

**G.7.2 Signage.** A sign with a floor plan drawing or image indicating the EHPA's location and perimeter boundaries or limits is required to be mounted in the shelter manager's office.

**G.7.3 Food Service.** The EHPA criteria states that "where feasible, include counter tops for food distribution functions in the EHPA's." ARC 3041 requires that emergency shelters have a feeding area and a means of storing, preparing and distributing food (and concurrently drinking water). Ideally, for sanitation purposes, emergency managers and shelter support agencies prefer to have feeding-related areas separate from general population areas. However, to maximize utilization of the EHPA's floor area during hurricane conditions, this preference can be relaxed and feeding areas occupied by a shelter population.

ARC 3041 normally requires 2,500 calories per person per day (approximately 3½ pounds of unprepared food). However, on a temporary basis, a hurricane shelter's feeding services can be relaxed. For design purposes, the EHPA planning assumption is 8-hours, or one-third (1/3) of a day. Therefore, the Division recommends that boards and design professionals plan for distribution of about one-third of the ARC's daily requirement, or about 833 calories (about one and one-sixth (1 1/6) pounds per person). This minimum feeding requirement can be met via "bag lunches" or heavy snacks. As an example, an EHPA with a design occupant capacity of 250 persons (includes both evacuees and management staff) will require a minimum of 293 pounds of food. Given that bag lunches and one-quart containers of bottled water can be distributed from a movable table (or straight out of bulk delivery boxes or containers), a fixed counter top may not be required; thus the "where feasible" preface in the code.

**G.7.4 Supplemental Space Allocations.** Ideally, in addition to shelter management space needs, adequate space should be set aside within the EHPA for registration, emergency medical care, safety and fire considerations, janitorial services and sanitation. For post-hurricane recovery shelter operations, ARC 3041 also recommends addition of space for storage of bulk food and supplies, food preparation and feeding, separate rooms for general population, elderly and families with small children, sleeping areas, recreation, and possible storage of occupants' belongings. It should be noted that ARC 3041's minimum space requirement for post-hurricane recovery shelters is 40 to 60 square feet per occupant, instead of the EHPA criteria's 20 square feet per occupant.

**G.7.5 Parking.** EHPA vehicle parking areas may be paved or unpaved, but must be located more than 50 feet from the EHPA.

**G.8 Americans with Disabilities Act Shelter Requirements.** The Americans with Disabilities Act (ADA) requires shelters to provide equal access and service to all persons. For guidance on meeting ADA emergency shelter requirements please see Appendix L.

**G.9 Comparison of Florida's EHPA to the International Code Council's ICC 500.**

The ICC 500 is scheduled to be published in 2008 and so will become a consideration for design of hurricane shelters in the future. Florida's EHPA code provisions were considered during preparation of ICC 500 so there are many design consistencies between them. However, the objective of the ICC storm shelter committee was to ensure a high-degree of safety for shelter occupants. Therefore, wind design provisions are based on a near-ultimate hurricane event. Table G-4 provides a comparison of Florida's EHPA criteria and ICC 500.

<b>Table G-4. Comparison of Florida Building Code's Public Shelter Design Criteria (EHPA) and the International Code Council's ICC 500 Hurricane Shelter Standard</b>		
<b>Design Criteria</b>	<b>2004 FBC EHPA with 2006 Revisions</b>	<b>(2007 Draft) ICC 500</b>
<b>Design Occupancy Period</b>	8 hours	24 hours
<b>Net Usable Floor Space per Occupant</b>	20 sq.ft. all adults and children	20 sq.ft. for standing, seated or wheelchair; 40 sq.ft. for bedridden
<b>Sanitary Facilities</b>	Toilets 1:40 Handwashing 1:40	Toilets 1:50 Handwashing 1:100
<b>Potable Water Capacity, minimum</b>	No Capacity Given	1 Gallon per Occupant
<b>Wastewater Capacity, minimum</b>	No Capacity Given	1.5 Gallons per Occupant
<b>Flood Design Criteria</b>	ASCE 7	ASCE 7 and ASCE 24
<b>Storm Surge Flood Elevation (if applicable)</b>	EHPA must be located outside Cat. 1, 2 or 3 evacuation zones. EHPA floor slab must be elevated above maximum inundation of a Category 4 hurricane.	No limitation on location of hurricane shelter in storm surge evacuation zones. Lowest floor slab must be elevated above maximum inundation of a Category 5 hurricane.
<b>Inland Rainfall Flooding</b>	Floor slab of lowest finished floor must be elevated above base flood elevation plus one (1) foot.	Lowest floor slab of occupied shelter must be elevated to the higher of the following elevations at the site: 1) flood having 0.2% annual chance; 2) flood elevation having 1% annual chance plus two (2) feet; and 3) if not in mapped special flood hazard area, flood elevation of the highest recorded flood elevation plus two (2) feet
<b>Rain Loads</b>	FBC—Plumbing, Section 1106 (100-year recurrence interval normal drains, plus 2 inch per hour overflow; total of 2 inch emergency overflow capacity)	ICC 500, Section 303.1 (100-year recurrence interval normal drains, and 100-year plus 3 inch per hour overflow; ranges from total of 7.3 to 8 inch emergency overflow capacity)

<b>Hurricane Wind Load Design</b>	ASCE 7	ASCE 7 with modifications
<b>Design Wind Speed</b>	ASCE 7 Basic Wind Speed Map (100-year recurrence interval)	ICC 500 Hurricane Wind Speed Map (10,000-year recurrence interval)
<b>Importance Factor, <math>I</math></b>	1.15	1.00
<b>Directionality Factor, <math>K_d</math></b>	0.85	1.00
<b>Optional Increase in Design Wind Speed</b>	Basic Design Wind Speed plus 40 mph ( $I=1.0$ ) recommended; adjusts design wind speed upwards to approx. 1,000 to 2,000-year recurrence interval	Not Applicable
<b>Exposure</b>	ASCE 7	ASCE 7 Exposure C (Exposure B may be applied to MWFRS in certain situations)
<b>Enclosure Classification</b>	ASCE 7	ASCE 7 with largest door or window on each side individually considered an opening (breach)
<b>Load Combinations</b>	ASCE 7	ASCE 7 with reductions per ICC 500 Chap. 3
<b>Building Enclosure Missile Impact Criteria (all surfaces)</b>	SBC/SSTD 12 (large missile: 9 lb 2x4 @ 34 mph)	ASTM E 1886 and E 1996 with modifications (large missile: 9 lb 2x4 Vertical Surface=0.4*Design Wind Speed Horizontal Surface=0.1*Design Wind Speed)
<b>Impact Testing Procedures</b>	SBC/SSTD 12	ASTM E 1886 or E 1996 as modified by ICC 500 Chap. 8
<b>Weather Protection (rainwater intrusion)</b>	Exterior envelope and air intakes/vent assemblies must meet design wind loads; Roof covering to be specified and designed to meet wind uplift forces and meet ASTM and Factory Mutual Standards	All exterior components and cladding assemblies and roof coverings must be designed and installed to meet design wind loads
<b>Fire Separation</b>	Applicable Code	Applicable Code plus 2 hour fire resistance rating of walls/assemblies that separate shelter areas from the host building
<b>Natural Ventilation</b>	FBC (5% of internal floor area per occupant)	12 net sq.in. of vent area openings per occupant
<b>Mechanical Ventilation</b>	2 cfm per sq.ft. of EHPA floor area (i.e., 40 cfm per occupant)	Ventilation rate determined by applicable building code for normal use of space (typically 15 cfm per occupant)
<b>Emergency Lighting</b>	FBC	1 foot-candle
<b>Standby Lighting</b>	10 foot-candles	10 foot-candles



<b>Standby Power System</b>	Required; minimum loads: emergency lighting, illuminated exit signs, fire protection and alarm systems, four (4) electrical receptacles in shelter manager's office, and minimum ventilation	Required; minimum loads: standby lighting and life safety/fire protection and alarm systems
<b>Permanent Standby Electric Generator</b>	Not Required	Not Required
<b>Special Inspections</b>	EHPA's are designated "threshold buildings" and subject to special structural inspections	Community shelters are subject to special inspections and structural observations
<b>Peer Review</b>	Not Required	Construction documents for community shelters with design occupancies greater than 300 are subject to peer review

Appendix H:  
Hurricane Evacuation Shelter Net Usability Multiplication Factor  
Estimates for Florida Department of Education Facilities

Hurricane Evacuation Shelter Net Usability Multiplication Factor  
Estimates for Florida Department of Education Facilities

Design Code Number	Design Description	Minimum Room sq.ft.	Normal sq.ft. per student	Net Usability Factor
00001	Primary Classroom (K-3)	600	40	0.50
00002	Intermediate Class (4-8)	600	39	0.65
00003	Senior High Class (9-12)	600	32	0.65
00010	Primary Skills Lab (K-3)	600	49	0.65
00011	Intermediate/Middle Skills Lab (4-8)	600	39	0.65
00012	Senior High Skills Lab (9-12)	600	32	0.65
00030	Primary Open Plan (K-3)	1,368	38	0.65
00031	Intermediate/Middle Open Plan (4-8)	1,408	32	0.65
00032	Senior High Open Plan (9-12)	1,600	27	0.65
00040	Resource Room	290	29	0.65
00050	Art – Elementary	600	37	0.50
00051	Art – Middle	630	42	0.50
00052	Art – Senior High	530	53	0.50
00061	ESE Part-time	600	65	0.50
00062	ESE Full-Time	600	95	0.50
00063	ESE Vocational	600	95	0.50
00064	ESE PT/OT Lab	600	0	0.50
00065	ESE Resource	290	95	0.50
00075	Vocal Music Class (Middle-Sr High)	513	57	0.65
00076	Band Class (Middle-Sr High)	1,200	35	0.65
00077	Orchestra Class (Middle-Sr High)	513	57	0.65
00078	General Music Class (Middle-Sr High)	518	37	0.65
00079	Guitar Lab (Middle-Sr High)	518	37	0.65
00110	PE Multipurpose Room (Middle-SrH)	800	0	0.85
00111	Jr High Gym	1	0	0.85
00112	Sr High Gym	1	0	0.85
00113	Gym Seating	1	0	0.85
00118	PE Wrestling Room	402	0	0.85
00119	PE Gymnastics & Dance	420	0	0.85
00340	Dining Area	1	0	0.65
00360	Auditorium	1	0	0.50
00361	Multipurpose Room (Dining)	1	0	0.65
00363	Stage	1	0	0.65
00370	Lobby	1	0	0.85
00700	Inside Circulation	1	0	0.85
00840	Vocational Related Classroom	256	32	0.65



Appendix I:  
Department of Education Memorandum on “Hurricane Shelters in New Educational  
Facilities,” dated October 31, 2001



FLORIDA DEPARTMENT OF EDUCATION

CHARLIE CRIST  
COMMISSIONER

Wayne V. Pierson  
Deputy Commissioner for  
Planning, Budgeting and Management

October 31, 2001

CONTACT PERSON

NAME: Jon Hamrick  
PHONE: (850) 487-1130  
SUNCOM: 277-1130

DPBM No.: 02-42

MEMORANDUM

TO: District School Superintendents, Community College Presidents, and Educational Facilities Planners

FROM: Wayne V. Pierson

SUBJECT: Hurricane Shelters in New Educational Facilities

The Department of Education has again been asked to reiterate the requirement that all construction of new educational facilities, including appropriate core facility additions to existing buildings, incorporate enhanced hurricane protection areas in their design. Section 235.26(8)(a), F.S., states the following:

“A facility, or an appropriate core facility area within a facility, for which a design contract is entered into subsequent to the effective date of the inclusion of the public shelter criteria in the code must be built in compliance with the amended code unless the facility or a part thereof is exempted from using the new shelter criteria due to its location, size, or other characteristics by the applicable board with the concurrence of the applicable local emergency management agency or the Department of Community Affairs. Any educational facility located or proposed to be located in an identified category 1, 2, or 3 evacuation zone is not subject to the requirements of this subsection. If the regional planning council region in which the county is located does not have a hurricane evacuation shelter deficit, as determined by the Department of Community Affairs, school districts within the planning council region are not required to incorporate the public shelter criteria into their construction of educational facilities.”

DBPM No. 02-42

October 31, 2001

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The State Requirements for Educational Facilities, Section 7(24)(a), and the Florida Building Code, Section 423(24)(a), provides:

“New educational facilities for school boards and community college boards, unless specifically exempted by the board with the written concurrence of the applicable local emergency management agency or the Department of Community Affairs (DCA), shall have appropriate core facility areas designed as Enhanced Hurricane Protection Areas (EHPAs) in compliance with this section.”

New educational facilities have been interpreted to mean “new construction,” as defined in Section 1.2(56), SREF, and Section 423(4)(h), Florida Building Code, which includes additions to existing buildings. There are three exceptions: 1) if the new work is specifically exempted in writing by the applicable local emergency management agency, 2) if the new building(s) or addition is located in a category 1, 2, or 3 evacuation zone, and 3) if the local regional planning council region does not have a shelter deficit. The exception for one shelter within a three-mile radius no longer exists.

It is imperative that shelter space be provided in all appropriate new educational facilities so that the deficit in shelter space can be eliminated. In this light, you are encouraged to work with your county emergency management office prior to or during the development of a project to identify appropriate shelter space. The additional cost directly associated to the Enhanced Hurricane Protection Area (EHPA) is deducted from the total construction cost when applying for a SIT award.

Please note that the October 2001 Audit Report Number 02-055 for Hurricane Shelters and Grant Management for the Department of Community Affairs has identified a lapse in enforcement of the shelter criteria by school districts and community colleges. Of the 164 constructed or newly planned facilities examined by the auditor, one-third did not comply with the required shelter requirements.

WVP/jhi

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## The 2001 Florida Statutes

[Title XVI](#)      [Chapter 235](#)      [View Entire Chapter](#)  
Education      Educational Facilities

### 235.26 State uniform building code for public educational facilities construction.--

(1) UNIFORM BUILDING CODE.--By July 1, 2001, a uniform statewide building code for the planning and construction of public educational and ancillary plants by district school boards and community college district boards of trustees shall be adopted by the Florida Building Commission within the Florida Building Code, pursuant to s. 553.73. Included in this code must be flood plain management criteria in compliance with the rules and regulations in 44 C.F.R. parts 59 and 60, and subsequent revisions thereto which are adopted by the Federal Emergency Management Agency. It is also the responsibility of the department to develop, as a part of the uniform building code, standards relating to:

- (a) Prefabricated facilities or factory-built facilities that are designed to be portable, relocatable, demountable, or reconstructible; are used primarily as classrooms; and do not fall under the provisions of ss. 320.822-320.862. Such standards must permit boards to contract with the Department of Community Affairs for factory inspections by certified building code inspectors to certify conformance with applicable law and rules. The standards must comply with the requirements of s. 235.061 for relocatable facilities intended for long-term use as classroom space, and the relocatable facilities shall be designed subject to missile impact criteria of s. 423(24)(d)(1) of the Florida Building Code when located in the windborne debris region.
- (b) The sanitation of educational and ancillary plants and the health of occupants of educational and ancillary plants.
- (c) The safety of occupants of educational and ancillary plants as provided in s. 235.06, except that the firesafety criteria shall be established by the State Fire Marshal in cooperation with the Florida Building Commission and the department and such firesafety requirements must be incorporated into the Florida Fire Prevention Code.
- (d) Accessibility for children, notwithstanding the provisions of s. 553.512.
- (e) The performance of life-cycle cost analyses on alternative architectural and engineering designs to evaluate their energy efficiencies.
  - 1. The life-cycle cost analysis must consist of the sum of:
    - a. The reasonably expected fuel costs over the life of the building which are required to maintain illumination, water heating, temperature, humidity, ventilation, and all other energy-consuming equipment in a facility; and
    - b. The reasonable costs of probable maintenance, including labor and materials, and operation of the building.
  - 2. For computation of the life-cycle costs, the department shall develop standards that must include, but need not be limited to:
    - a. The orientation and integration of the facility with respect to its physical site.
    - b. The amount and type of glass employed in the facility and the directions of exposure.



- c. The effect of insulation incorporated into the facility design and the effect on solar utilization of the properties of external surfaces.
  - d. The variable occupancy and operating conditions of the facility and subportions of the facility.
  - e. An energy-consumption analysis of the major equipment of the facility's heating, ventilating, and cooling system; lighting system; and hot water system and all other major energy-consuming equipment and systems as appropriate.
3. Life-cycle cost criteria published by the Department of Education for use in evaluating projects.
4. Standards for construction materials and systems based on life-cycle costs that consider initial costs, maintenance costs, custodial costs, operating costs, and life expectancy. The standards may include multiple acceptable materials. It is the intent of the Legislature to require district school boards to comply with these standards when expending funds from the Public Education Capital Outlay and Debt Service Trust Fund or the School District and Community College District Capital Outlay and Debt Service Trust Fund and to prohibit district school boards from expending local capital outlay revenues for any project that includes materials or systems that do not comply with these standards, unless the district school board submits evidence that alternative materials or systems meet or exceed standards developed by the department.

It is not a purpose of the Florida Building Code to inhibit the use of new materials or innovative techniques; nor may it specify or prohibit materials by brand names. The code must be flexible enough to cover all phases of construction so as to afford reasonable protection for the public safety, health, and general welfare. The department may secure the service of other state agencies or such other assistance as it finds desirable in recommending to the Florida Building Commission revisions to the code.

**(2) CONFORMITY TO FLORIDA BUILDING CODE AND FLORIDA FIRE PREVENTION STANDARDS REQUIRED FOR APPROVAL.--**

(a) Except as otherwise provided in paragraph (b), all public educational and ancillary plants constructed by a district school board or a community college district board of trustees must conform to the Florida Building Code and the Florida Fire Prevention Code, and such plants are exempt from all other state building codes; county, municipal, or other local amendments to the Florida Building Code and local amendments to the Florida Fire Prevention Code; building permits, and assessments of fees for building permits, except as provided in s. 553.80; ordinances; road closures; and impact fees or service availability fees. Any inspection by local or state government must be based on the Florida Building Code and the Florida Fire Prevention Code. Each board shall provide for periodic inspection of the proposed educational plant during each phase of construction to determine compliance with the state requirements for educational facilities.

(b) A district school board or community college district board of trustees may conform with the Florida Building Code and the Florida Fire Prevention Code and the administration of such codes when constructing ancillary plants that are not attached to educational facilities, if those plants conform to the space size requirements established in the codes.

(c) A district school board or community college district board of trustees may not approve any plans for the construction, renovation, remodeling, or demolition of any educational or ancillary plants unless these plans conform to the requirements of the Florida Building Code and the Florida Fire Prevention Code. Each district school board and community college district board of trustees may adopt policies for delegating to the superintendent or community college president authority for submitting documents to the department and for awarding contracts subsequent to and consistent with board approval of the scope, timeframes, funding source, and budget of a survey-recommended project.

**(3) ENFORCEMENT BY BOARD.--**It is the responsibility of each district school board and community college district board of trustees to ensure that all plans and educational and ancillary plants meet the standards of the Florida Building Code and the Florida Fire Prevention Code and to provide for the enforcement of these codes in the areas of its jurisdiction. Each board shall provide for the proper supervision and inspection of the work. Each board may employ a chief building official or inspector and such other inspectors, who have been certified pursuant to chapter 468,

and such personnel as are necessary to administer and enforce the provisions of this code. Boards may also utilize local building department inspectors who are certified by the department to enforce this code. Plans or facilities that fail to meet the standards of the Florida Building Code or the Florida Fire Prevention Code may not be approved. When planning for and constructing an educational, auxiliary, or ancillary facility, a district school board must use construction materials and systems that meet standards adopted pursuant to subparagraphs (1)(e)3. and 4. If the planned or actual construction of a facility deviates from the adopted standards, the district school board must, at a public hearing, quantify and compare the costs of constructing the facility with the proposed deviations and in compliance with the adopted standards and the Florida Building Code. The board must explain the reason for the proposed deviations and compare how the total construction costs and projected life-cycle costs of the facility or component system of the facility would be affected by implementing the proposed deviations rather than using materials and systems that meet the adopted standards. The provisions of this subsection do apply to educational, auxiliary, and ancillary facility projects commenced on or after July 1, 1999.

(4) ENFORCEMENT BY DEPARTMENT.--As a further means of ensuring that all educational and ancillary facilities hereafter constructed or materially altered or added to conform to the Florida Building Code standards or Florida Fire Prevention Code standards, each district school board and community college district board of trustees that undertakes the construction, renovation, remodeling, purchasing, or lease-purchase of any educational plant or ancillary facility, the cost of which exceeds \$200,000, may submit plans to the department for approval.

(5) APPROVAL.--

(a) Before a contract has been let for the construction, the department, the board, or the board's authorized review agent must approve the phase III construction documents. A board may reuse prototype plans on another site, provided the facilities list and phase III construction documents have been updated for the new site and for compliance with the Florida Building Code and the Florida Fire Prevention Code and any laws relating to firesafety, health and sanitation, casualty safety, and requirements for the physically handicapped which are in effect at the time a construction contract is to be awarded.

(b) In reviewing plans for approval, the department, the board, or its review agent as authorized in s. 235.017, shall take into consideration:

1. The need for the new facility.
2. The educational and ancillary plant planning.
3. The architectural and engineering planning.
4. The location on the site.
5. Plans for future expansion.
6. The type of construction.
7. Sanitary provisions.
8. Conformity to Florida Building Code standards.
9. The structural design and strength of materials proposed to be used.
10. The mechanical design of any heating, air-conditioning, plumbing, or ventilating system. Typical heating, ventilating, and air-conditioning systems preapproved by the department for specific applications may be used in the design of educational facilities.
11. The electrical design of educational plants.
12. The energy efficiency and conservation of the design.
13. Life-cycle cost considerations.

14. The design to accommodate physically handicapped persons.
15. The ratio of net to gross square footage.
16. The proposed construction cost per gross square foot.
17. Conformity with the Florida Fire Prevention Code.

(c) The board may not occupy a facility until the project has been inspected to verify compliance with statutes, rules, and codes affecting the health and safety of the occupants. Verification of compliance with rules, statutes, and codes for nonoccupancy projects such as roofing, paving, site improvements, or replacement of equipment may be certified by the architect or engineer of record and verification of compliance for other projects may be made by an inspector certified by the department or certified pursuant to chapter 468 who is not the architect or engineer of record. The board shall maintain a record of the project's completion and permanent archive of phase III construction documents, including any addenda and change orders to the project. The boards shall provide project data to the department, as requested, for purposes and reports needed by the Legislature.

(6) REVIEW PROCEDURE.--The Commissioner of Education shall cooperate with the Florida Building Commission in addressing all questions, disputes, or interpretations involving the provisions of the Florida Building Code which govern the construction of public educational and ancillary facilities, and any objections to decisions made by the inspectors or the department must be submitted in writing.

(7) BIENNIAL REVIEW AND UPDATE; DISSEMINATION.--The department shall biennially review and recommend to the Florida Building Commission updates and revisions to the provisions of the Florida Building Code which govern the construction of public educational and ancillary facilities. The department shall publish and make available to each district school board and community college district board of trustees at no cost copies of the state requirements for educational facilities and each amendment and revision thereto. The department shall make additional copies available to all interested persons at a price sufficient to recover costs.

(8) EDUCATION FACILITIES AS EMERGENCY SHELTERS.--

(a) The Department of Education shall, in consultation with boards and county and state emergency management offices, include within the standards to be developed under subsection (1) public shelter design criteria that shall be incorporated into the Florida Building Code. The new criteria must be designed to ensure that appropriate core facility areas in new educational facilities can serve as public shelters for emergency management purposes. A facility, or an appropriate core facility area within a facility, for which a design contract is entered into subsequent to the effective date of the inclusion of the public shelter criteria in the code must be built in compliance with the amended code unless the facility or a part thereof is exempted from using the new shelter criteria due to its location, size, or other characteristics by the applicable board with the concurrence of the applicable local emergency management agency or the Department of Community Affairs. Any educational facility located or proposed to be located in an identified category 1, 2, or 3 evacuation zone is not subject to the requirements of this subsection. If the regional planning council region in which the county is located does not have a hurricane evacuation shelter deficit, as determined by the Department of Community Affairs, school districts within the planning council region are not required to incorporate the public shelter criteria into their construction of educational facilities.

(b) By January 31, 1996, and by January 31 every even-numbered year thereafter, the Department of Community Affairs shall prepare and submit a statewide emergency shelter plan to the Governor and the Cabinet for approval. The plan must identify the general location and square footage of existing shelters, by regional planning council region, and the general location and square footage of needed shelters, by regional planning council region, in the next 5 years. Such plan must identify the types of public facilities which should be constructed to comply with emergency shelter criteria and must recommend an appropriate, adequate, and dedicated source of funding for the additional cost of constructing emergency shelters within these public facilities. After the approval of the plan, a board may not be required to build more emergency shelter space than identified as needed in the plan, and decisions pertaining to exemptions pursuant to paragraph (a) must be guided by the plan.

(9) LOCAL LEGISLATION PROHIBITED.--After June 30, 1985, pursuant to s. 11(a)(21), Art. III of the State Constitution, there shall not be enacted any special act or general law of local application which proposes to amend, alter, or contravene any provisions of the State Building Code adopted under the authority of this section.

History.--s. 926, ch. 19355, 1939; CGL 1940 Supp. 892(312); s. 12, ch. 29754, 1955; s. 10, ch. 59-371; s. 117, ch. 65-239; s. 1, ch. 67-106; ss. 15, 18, 19, 35, ch. 69-106; s. 1, ch. 69-300; s. 1, ch. 70-196; s. 6, ch. 70-399; s. 9, ch. 74-374; s. 1, ch. 77-280; s. 15, ch. 77-458; s. 1, ch. 78-290; s. 1, ch. 79-71; s. 103, ch. 79-400; s. 9, ch. 80-414; ss. 27, 50, 52, ch. 81-223; ss. 10, 14, ch. 82-240; s. 1, ch. 83-163; s. 3, ch. 83-224; s. 1, ch. 84-349; ss. 16, 26, 27, ch. 85-116; ss. 1, 4, ch. 86-1; s. 1, ch. 88-202; s. 5, ch. 89-226; s. 15, ch. 89-278; s. 13, ch. 90-172; s. 11, ch. 90-241; s. 55, ch. 90-288; s. 2, ch. 90-320; s. 169, ch. 92-279; s. 55, ch. 92-326; s. 6, ch. 93-211; s. 6, ch. 94-292; ss. 18, 35, ch. 95-269; ss. 6, 11, ch. 95-341; s. 145, ch. 97-190; s. 6, ch. 97-265; s. 30, ch. 97-384; s. 16, ch. 99-329; s. 2, ch. 2000-140; s. 11, ch. 2000-141; s. 20, ch. 2001-61; s. 34, ch. 2001-186.

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Pr	Region	HES Data Source	HES Year of Publication	2008 Estimated General Population (EDR April 1, 2007)	2008 Estimated Vulnerable General Population	2008 Estimated Total Shelter Demand	2004/05 PSN Maximum Single-Day Census (adj. for population growth)	2007 total PSN Client Registrants	35% of 2007 PSN Client Registrants	(Dec 2007) Total PSN Shelter Demand County Estimate	2008 Estimated General Shelter Demand (w/o PSN)	2008 Estimated PSN Shelter Demand	2013 Estimated General Population (EDR/BEBR)	2013 Estimated Category 5 Vulnerable Population	2013 Estimated Total Shelter Demand	2013 General Population Shelter Demand Estimate	2013 PSN Population Shelter Demand Estimate
Bay	1	Northwest FL HES, pgs 3-10	2000	170,847	190,396	15,304	420	2,233	782	2,233	13,071	2,233	185,445	206,665	16,611	14,100	2,511
Escambia	1	Northwest FL HES, Chapter 5 pgs 5-2	2000	315,889	109,472	12,471	512	183	64	200	11,959	512	333,641	115,624	13,172	12,628	544
Holmes	1	Northwest FL HES, Chapter 5 pgs 5-2	2000	19,582	5,526	1,140	20	33	12	10	1,120	20	20,822	5,876	1,213	1,192	21
Okaloosa	1	Northwest FL HES, pgs 3-10	2000	200,197	135,740	13,250	65	227	79	65	13,171	79	218,163	147,922	14,439	14,354	85
Santa Rosa	1	Northwest FL HES, Chapter 5 pgs 5-2	2000	144,754	74,604	7,920	127	72	25	72	7,793	127	172,820	89,069	9,455	9,311	144
Walton	1	Northwest FL HES, Chapter 5 pgs 5-2	2000	58,692	76,271	5,694	44	80	28	30	5,650	44	73,276	95,223	7,108	7,052	56
Washington	1	Northwest FL HES, Chapter 5 pgs 5-2	2000	24,316	6,233	1,265	8	384	134	76	1,131	134	27,314	7,001	1,421	1,279	142
Calhoun	2	Apalachee Bay HES, pg 3-5	1997	14,671	6,607	1,123	27	71	25	51	1,072	51	15,127	6,812	1,158	1,098	60
Franklin	2	Apalachee Bay HES, Transportation Analysis pg 3-5	2004	12,306	16,621	996	0	70	25	48	948	48	12,779	17,260	1,034	982	52
Gadsden	2	Apalachee Bay HES, Transportation Analysis pg 3-7	2004	49,661	18,667	3,173	14	300	105	250	2,923	250	51,257	19,266	3,275	2,998	277
Gulf	2	Apalachee Bay HES, Trans Analysis pg 3-5	2004	17,052	19,486	1,013	4	20	7	20	993	20	17,723	20,252	1,052	1,031	21
Jackson	2	Apalachee Bay HES, pg 3-5	1997	51,445	19,393	3,296	43	515	180	52	3,116	180	55,999	21,110	3,588	3,398	190
Jefferson	2	Apalachee Bay HES, Trans Analysis, pg 3-6	2004	14,606	7,524	1,097	0	77	27	32	1,065	32	15,306	7,884	1,150	1,113	37
Leon	2	Apalachee Bay HES, Transportation Analysis pg 3-7	2004	276,212	64,616	9,331	9	500	175	150	9,156	175	306,464	71,693	10,352	10,169	183
Liberty	2	Apalachee Bay HES, Trans Analysis pg 3-7	2004	7,893	5,217	887	0	200	70	185	702	185	8,491	5,613	955	749	206
Wakulla	2	Apalachee Bay HES, Transportation Analysis pg 3-6	2004	30,050	31,899	1,056	0	130	46	30	1,010	46	37,185	39,473	1,307	1,248	59
Alachua	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	251,639	31,362	9,409	207	1,284	449	2,500	6,909	2,500	270,394	33,699	10,110	7,546	2,564
Bradford	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	29,318	7,703	2,311	32	116	41	138	2,173	138	30,499	8,013	2,404	2,247	157
Columbia	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	66,825	20,819	6,246	0	100	35	75	6,171	75	71,776	22,361	6,708	6,621	87
Dixie	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	16,147	17,982	2,569	13	75	26	55	2,514	55	17,879	19,911	2,844	2,784	60
Gilchrist	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	17,595	7,229	2,169	37	37	13	52	2,117	52	19,842	8,152	2,446	2,386	60
Hamilton	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	14,846	5,139	1,542	0	15	5	10	1,532	10	15,214	5,266	1,580	1,570	10
Lafayette	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	8,276	3,335	1,001	0	3	1	0	1,000	1	8,679	3,498	1,049	1,048	1
Madison	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	20,110	5,883	1,765	5	65	23	30	1,735	30	20,979	6,137	1,841	1,811	30
Suwannee	3	Cedar Key Basin HES, pg 3-5/ BEBR Data for 1995	1996	40,347	17,085	5,126	10	102	36	73	5,053	73	46,228	19,575	5,873	5,796	77
Taylor	3	Cedar Key Basin HES, pg 3-5	1996	22,463	13,878	2,411	0	135	47	135	2,276	135	22,866	14,127	2,454	2,299	155

Pr	Region	HES Data Source	HES Year of Publication	2008 Estimated General Population (EDR April 1, 2007)	2008 Estimated Vulnerable General Population	2008 Estimated Total Shelter Demand	2004/05 PSN Maximum Single-Day Census (adj. for population growth)	2007 total PSN Client Registrants	35% of 2007 PSN Client Registrants	(Dec 2007) Total PSN Shelter Demand County Estimate	2008 Estimated General Shelter Demand (w/o PSN)	2008 Estimated PSN Shelter Demand	2013 Estimated General Population (EDR/BEBR)	2013 Estimated Category 5 Vulnerable Population	2013 Estimated Total Shelter Demand	2013 General Population Shelter Demand Estimate	2013 PSN Population Shelter Demand Estimate
Union	3	Cedar Key Basin HES, pg 3-5/BEBR Data for 1995	1996	15,853	4,141	1,242	29	117	41	80	1,162	80	16,683	4,358	1,307	1,215	92
Baker	4	Northeast FL HES Technical Data Report 3-5, 6, 7	2005	26,148	14,520	2,824	27	106	37	146	2,678	146	28,065	15,584	3,031	2,854	177
Clay	4	Northeast FL HES Technical Data Report 3-5, 6, 7	2005	190,134	176,549	22,096	50	336	118	400	21,696	400	217,436	201,900	25,269	24,735	534
Duval	4	Northeast FL HES Technical Data Report 3-5, 6, 7	2005	914,875	498,421	70,683	329	1,804	631	1,850	68,833	1,850	986,271	537,318	76,199	74,134	2,065
Flagler	4	Northeast FL HES Technical Data Report 3-5, 6, 7	2005	99,526	93,076	5,155	211	527	184	650	4,505	650	130,961	122,474	6,783	5,731	1,052
Nassau	4	Northeast FL HES Technical Data Report 3-5, 6, 7	2005	71,073	65,626	3,961	81	230	81	265	3,696	265	81,228	75,003	4,527	4,204	323
Putnam	4	Northeast FL HES Technical Data Report 3-5, 6, 7	2005	75,281	55,824	9,180	96	93	33	163	9,017	163	78,707	58,364	9,598	9,431	167
St. Johns	4	Northeast FL HES Technical Data Report 3-5, 6, 7	1998	179,050	184,362	9,874	163	245	86	505	9,369	505	212,823	219,137	11,736	11,089	647
Citrus	5	Withlacochee HES Transportation Analysis pg 3-6	2004	143,105	114,575	8,829	41	432	151	450	8,379	450	157,721	126,278	9,731	9,206	525
Hernando	5	Withlacochee HES Transportation Analysis pg 3-7	2004	166,733	61,400	4,671	13	1,600	560	1700 (+100)	2,971	1,700	184,821	68,060	5,178	3,158	2,020
Levy	5	Withlacochee HES Transportation Anal pg 3-5	2004	40,609	25,174	2,425	52	109	38	155	2,270	155	44,966	27,874	2,685	2,513	172
Marion	5	Withlacochee HES Transportation Analysis pg 3-8	2004	332,197	178,469	25,011	305	1,520	532	1,000	24,011	1,000	379,948	204,123	28,606	27,470	1,136
Sumter	5	Withlacochee HES Transportation Analysis pg 3-9	2004	92,265	46,272	6,583	89	500	175	575 (+75)	6,008	575	111,312	55,824	7,942	6,879	1,063
Brevard	6	East Central FL HES, pg 20	2000	563,819	256,199	18,647	410	2,000	700	2,000	16,647	2,000	615,331	279,606	20,351	18,128	2,223
Lake	6	East Central FL HES, pg 20	2000	296,433	133,628	19,986	229	1,100	385	1,100	18,886	1,100	349,266	157,445	23,548	22,193	1,355
Orange	6	East Central FL HES, pg 20	2000	1,132,494	105,624	15,804	121	3,153	1,104	3,153	12,651	3,153	1,292,596	120,556	18,038	14,698	3,340
Osceola	6	East Central FL HES, pg 20	2000	277,497	87,932	13,181	246	1,195	418	1,195	11,986	1,195	348,112	110,308	16,535	15,071	1,464
Seminole	6	East Central FL HES, pg 20	2000	432,631	24,148	3,586	67		0		3,519	67	485,223	27,083	4,022	3,947	75
Volusia	6	East Central FL HES, pg 20	2000	515,243	317,037	32,006	602	636	223	636	31,370	636	573,678	352,993	35,636	34,997	639
DeSoto	7	Central FL HES, pg 11	1995	34,258	16,445	5,808	66	93	33	100 (+7)	5,708	100	38,154	18,315	6,469	6,363	106
Hardee	7	Central FL HES, pg 11	1995	27,874	15,037	5,311	13	87	30	90 (+3)	5,221	90	29,069	15,682	5,539	5,464	75
Highlands	7	Central FL HES, pg 11	1995	100,276	41,799	9,592	142	102	36	110 (+8)	9,450	142	108,580	45,261	10,386	10,234	152
Okeechobee	7	Central FL HES, pg 11	1995	39,462	22,072	10,750	82	100	35	150 (+50)	10,600	150	41,433	23,175	11,287	11,129	158
Polk	7	Central FL HES, pg 11	1995	591,743	95,836	164,173	385	3,567	1,248	3867 (+300)	160,306	3,867	652,384	105,658	180,997	176,650	4,347
Hillsborough	8	Tampa Bay HES Chapter IV pg 123	2006	1,218,942	407,409	137,010	172	4,000	1,400	4500 (+500)	132,510	4,500	1,343,756	449,126	151,039	146,056	4,983
Manatee	8	Tampa Bay HES Chapter IV pg 92 & 123	2006	321,917	168,505	38,319	224	1,293	453	1325 (+32)	36,994	1,325	359,121	187,979	42,748	41,382	1,366
Pasco	8	Tampa Bay HES Chapter IV pg 92 & 123	2006	444,613	288,793	61,453	609	2,106	737	1,580	59,873	1,580	510,528	331,607	70,563	68,751	1,812
Pinellas	8	Tampa Bay HES Chapter IV pg 92 & 123	2006	951,105	580,471	112,881	665	2,881	1,008	3200 (+319)	109,681	3,200	985,468	601,443	116,959	113,997	2,962
Charlotte	9	Southwest FL HES, pg II-C-15	2001	168,399	211,643	31,746	0	651	228	651 (+0)	31,095	651	185,497	233,132	34,970	34,291	679
Collier	9	Southwest FL HES, pg II-A-65	2001	345,087	379,764	45,572	242	1,587	555	1687 (+100)	43,885	1,687	420,537	462,795	55,535	53,760	1,775

Pr	Region	HES Data Source	HES Year of Publication	2008 Estimated General Population (EDR April 1, 2007)	2008 Estimated Vulnerable General Population	2008 Estimated Total Shelter Demand	2004/05 PSN Maximum Single-Day Census (adj. for population growth)	2007 total PSN Client Registrants	35% of 2007 PSN Client Registrants	(Dec 2007) Total PSN Shelter Demand County Estimate	2008 Estimated General Shelter Demand (w/o PSN)	2008 Estimated PSN Shelter Demand	2013 Estimated General Population (EDR/BEBR)	2013 Estimated Category 5 Vulnerable Population	2013 Estimated Total Shelter Demand	2013 General Population Shelter Demand Estimate	2013 PSN Population Shelter Demand Estimate
Glades	9	Southwest FL HES, pg II-F-19	2001	11,279	17,141	5,828	9	6	2	10 (+4)	5,818	10	11,908	18,097	6,153	6,144	9
Hendry	9	Southwest FL HES, pg II-E-17	2001	40,412	36,421	12,383	20	16	6	35 (+19)	12,348	35	43,008	38,761	13,179	13,146	33
Lee	9	Southwest FL HES, pg II-B-9	2001	634,596	671,806	134,361	198	1,000	350	1150 (+150)	133,211	1,150	738,793	782,113	156,423	155,001	1,422
Sarasota	9	Southwest FL HES, pg II-D-14	2001	394,530	277,526	55,505	244	2,646	926	3,400	52,105	3,400	435,860	306,598	61,320	57,433	3,887
Indian River	10	Treasure Coast HES Transportation Analysis, pg 3-5	2003	142,919	83,787	6,264	470	400	140	500	5,764	500	159,874	93,727	7,007	6,447	560
Martin	10	Treasure Coast HES Trans Analysis pg 3-6	2003	146,742	114,353	9,333	149	275	96	400	8,933	400	162,642	126,744	10,344	9,929	415
Palm Beach	10	Treasure Coast HES Transportation Analysis pg 3-6	2003	1,320,694	496,922	47,578	290		0		47,288	290	1,492,331	561,501	53,761	53,474	287
St. Lucie	10	Treasure Coast HES Transportation Analysis pg 3-5	2005	279,823	112,363	9,409	662		0		8,747	662	326,440	131,083	10,976	10,098	878
Broward	11	2001 Broward Co. HES Model Support Doc PBS&J C-8	2001	1,795,955	401,194	36,543	198	997	349	0	36,194	349	1,954,988	436,720	39,779	39,462	317
Miami-Dade	11	2004 Abbreviated Transportation Model PBS&J	2003	2,491,894	731,491	69,192	90	2,527	884	0	68,308	884	2,658,243	780,323	73,811	72,890	921
Monroe	11	South Florida Regional Evacuation Study	2006	79,326	85,755	20,581	74	279	98	279	20,302	279	80,814	87,363	20,967	20,693	274

**Appendix K:**  
**Guidance for Selection of Impact Resistant Constructed Wall and Roof Assemblies**



## **Appendix K – Guidance for Selection of Impact Resistant Constructed Wall and Roof Assemblies**

### **K.0 STRUCTURAL MISSILE IMPACT CRITERIA**

The public shelter design criteria, which are also known as the EHPA criteria, require that exterior walls and roofs prevent perforation or penetration by windborne debris. Laboratory testing is the primary means of determining if a specific assembly (i.e., exterior and interior surface cladding, structural components and configurations, material properties, connections, etc.) is capable of satisfying the applicable performance criteria. Certain types of commonly used non-proprietary materials and constructed assemblies have been demonstrated through laboratory testing to satisfy the required debris impact performance criteria. Constructed assemblies that are approved for use without further testing by the authority having jurisdiction are commonly referred to as “deemed to comply.” The deemed to comply method is recognized in section 1626.4, FBC—Building. Appendix K has been prepared to assist designers with selection of constructed wall and roof assemblies that have been tested and satisfy applicable large missile impact criteria.

Please note that the Department of Education has stated that roof assemblies must be tested and certified to meet SSTD 12 as an assembly. This applies to district school board and community college facilities. With the exception of code prescribed concrete deck assemblies, “deemed to comply” assemblies will not be approved by the Department of Education. Therefore, “deemed to comply” assemblies are only applicable to other state and local agency facilities.

The Florida Department of Education’s list of approved roof decks can be found at the following web address:

<http://www.fldoe.org/edfacil/formsplanreview.asp>

### **K.1 METHODOLOGY**

To begin the assembly selection process, it is critical to determine the design wind velocity of the EHPA. Higher windfield velocities impart higher velocities to entrained debris. Higher wind velocities can also lift and accelerate larger and heavier debris objects, as well as extend the distance downwind that an object can travel. As a planning guide, unanchored, inadequately anchored or poorly constructed large debris can be generated from sources within a distance of about 300 feet of proposed or constructed EHPA(s). Smaller debris down to the size of gravel can be generated from sources out to a range of possibly 1,500 feet. Research considered by the ICC storm shelter standard committee indicates that objects lifted by wind forces undergo rapid acceleration and achieve velocities of between 40 and 80 percent of the entraining windfield’s velocity. Thus the lower bound for representative missiles require test velocities of at least 40 percent of the proposed design wind speed.

The industry-recognized straight wind (which include hurricane) large missile that is used for impact testing is a nine pound sawn lumber 2x4 (9 lb 2x4). The industry-recognized 9 lb 2x4 large missile is also the missile required to satisfy the EHPA code provisions. For those school districts that are interested in incorporating tornado protection into an EHPA construction project, national guidance currently recommends that the large missile be increased to a 15 pound sawn lumber 2x4 (15 lb 2x4). In addition to tornado applications, the Division also recommends increasing the large missile requirement to a 15 lb 2x4 for EHPA's that may be subjected to an unusual barrage of heavy debris (e.g., building materials and mechanical equipment).

Debris impact testing of wall and roof assemblies has generally been conducted using a limited number of specified conditions (e.g., 9 and 15 lb 2x4s propelled at 34, 50, 75 and 100 miles per hour). Many of the more robust materials and assemblies, such as reinforced concrete and solid-grouted masonry, have satisfied test requirements that are significantly more demanding than the EHPA code-required SSTD 12. Another factor considered by the Division is that current research indicates that an object's impact momentum, and not energy, provides the best correlation of test performance of a specified assembly when comparing missiles of different weights and velocities. Calculating the momentum associated with a published sample's impact test conditions permits the data to be converted to the industry standard straight wind 9 lb 2x4 missile. Impact momentum is calculated as follows: missile weight (lb) / acceleration of gravity (32.2 ft/sec<sup>2</sup>) x missile velocity (ft/sec) = momentum (lb-sec). It should be noted that in addition to momentum values, Tables K-1 and K-2 provide corresponding impact energy values to assist with conversion when the impact energy of a test is known, but momentum is not calculated.

The following reference data sources were used to compile the list of assemblies given in Table K-3. Windborne Debris Impact Resistant Wall Assemblies, and Table K-4. Windborne Debris Impact Resistant Roof Assemblies:

1. *Large Wind Missile Impact Performance of Public and Commercial Building Assemblies*, Florida Agricultural and Mechanical University-Florida State University (FAMU-FSU) in cooperation with the University of Florida (UF), 2004
2. *Summary Report on Debris Impact Testing at Texas Tech University*, Texas Tech University (TTU), 2003
3. *Design and Construction Guidance for Community Shelters* (FEMA 361), Federal Emergency Management Agency, 2000

These reference sources can provide additional guidance on selection of suitable wall and roof assemblies for both hurricane and tornado shelters.

To match the existing data sources' test conditions with a practical range of corresponding design wind speeds, the Division consolidated the data into categories defined as "Levels of Protection." The test performance required to satisfy each level of protection category is bounded by the respective category's highest hurricane design

wind speed. As an example, Enhanced-B's design wind speed range is 165 to 200 miles per hour (mph), therefore the assembly must satisfy a laboratory missile test equal to a 9 lb 2x4 propelled at 80 mph ( $200 \times 0.40 = 80$ ).

The lowest level of protection, which is referred to by the Division as "Basic-D," is equal to the large missile test requirements of SSTD 12 and ASTM E 1996 Missile Level D (i.e., 9 lb 2x4 propelled at 34 mph). Basic-D is the minimum code requirement for EHPA walls and roofs. ASTM E 1996 also establishes an "Enhanced Protection" requirement for essential facilities, which includes designated hurricane shelters. ASTM E 1996's enhanced missile is defined as Missile Level E and increases the test velocity of the 9 lb 2x4 to 55 mph. For the purposes of this appendix, ASTM E 1996's Missile Level E is referred to as "Basic-E." The reference sources used by the Division for preparation of this appendix do not provide test data specific to ASTM E 1996's Missile Level E.

The Division's Enhanced-A level of protection corresponds to design wind speeds of 141 to 160 mph (3-second gust), which is consistent for EHPA's that are designed to include the code recommended addition of 40 mph to ASCE 7's basic design wind speed, and proposed to be located in ASTM E-1996's Wind Zones 1, 2 and 3 (i.e., basic wind speeds < 141 mph). The Enhanced-A missile requirement is equal to a 9 lb 2x4 propelled at 65 mph. The 141 to 160 mph design wind speed range is also consistent with a Saffir-Simpson Scale hurricane Category 3 (i.e., 135 mph to 159 mph, 3-second gust).

The Division's Enhanced-B level of protection corresponds to design wind speeds of 161 to 200 mph (3-second gust), which is consistent for EHPA's that are designed to include the code recommended addition of 40 mph to ASCE 7's basic design wind speed, and proposed to be located in ASTM E-1996's Wind Zone 4 (i.e., basic wind speeds > 140 mph). The Enhanced-B missile requirement is equal to a 9 lb 2x4 propelled at 80 mph. Conveniently, the 9 lb 2x4 propelled at 80 mph test missile has approximately the same impact momentum as the Department of Energy's recommended straight wind missile criteria, which is a 15 lb 2x4 propelled at 50 mph (15 lb 2x4 @ 50 mph). The 15 lb 2x4 @ 50 mph is a commonly used test so there are several wall and roof assemblies that have been demonstrated to satisfy its performance requirements. The 161 to 200 mph design wind speed range is also consistent with a Saffir-Simpson Scale hurricane Category 4 (i.e., 160 mph to 189 mph, 3-second gust).

The Enhanced-C level of protection exceeds the EHPA's design wind speed range, and includes hurricane design wind speeds of 201 to 250 mph. Design wind speeds in this range are consistent with a Saffir-Simpson Scale hurricane Category 5 and are provided for comparison purposes only. Enhanced-D and Enhanced-E levels of protection are consistent with tornado missile test criteria established in ICC 500, FEMA 361 and other national guidance publications for EF3 and EF4&5 tornadoes respectively.

It should be noted that Tables K-1 and K-3 provide criteria for exterior envelope vertical surfaces, such as walls. Exterior envelope surfaces that are inclined less than 30 degrees from horizontal are considered horizontal surfaces, and Tables K-2 and K-4 apply. For the purposes of this appendix, the missile velocity requirement for horizontal

surfaces is assumed to be 67 percent of that required for the respective vertical surface. This is consistent with tornado missile test criteria found in ICC 500, FEMA 361 and other national guidance publications. This is conservative since hurricane missile requirements for horizontal surfaces may only be 25 percent of that required for vertical surfaces, but negligible data is available for such low impact criteria. Also, weak to moderate tornadoes and other isolated wind disturbances can be embedded in hurricanes, which can cause severe local impacts. Therefore, the use of the tornado missile requirement for horizontal surfaces of hurricane shelters is not exceptionally conservative.

## **K.2 SELECTION OF WALL OR ROOF ASSEMBLIES**

With the type of wind event (straight or tornado wind) and design wind speed established, the designer or specifying authority can select an appropriate windborne debris impact level of protection that best suits performance expectations. The levels of protection categories simplify the selection of appropriate wall and roof assemblies to match the EHPA's design wind speed. As an example, for an EHPA with a hurricane design wind speed of 140 mph the representative missile's lower bound velocity is equal to 40 percent of the design wind speed, or 56 mph ( $170 \times 0.40 = 68$ ). Instead of searching for test results specific to a 9 lb 2x4 propelled at 68 mph (9 lb 2x4 @ 68 mph), the designer or specifying authority can select the level of protection applicable to 170 mph from Table K-1 (for vertical surfaces), which is an "Enhanced-B" level of protection; i.e., design wind speed between 161 and 200 mph. The Enhanced-B determination will also concurrently apply to the building's horizontal surfaces, such as roofs.

With the level of protection determined for both vertical and horizontal surfaces, the designer or specifying authority then selects a wall and roof assembly from Tables K-3 and K-4, respectively, that satisfies the minimum required impact momentum resistance criteria. Tables K-3 and K-4 provide the following information:

Column 1 (left-most column) – A wall/roof number for reference purposes

Column 2 – Assembly Type, such as wood, metal, CMU/masonry, reinforced concrete, etc; light wood and metal stud framing is included under wood assembly type, and brick masonry over sheathing material and light wood or metal framing is also included under wood assembly type

Column 3 – Assembly description, which includes inside and outside sheathing materials (if any) and nominal dimensions, reinforcement and connections as applicable

Column 4 – Data source, which can be used as reference for additional information; the data sources are:

1. *Large Wind Missile Impact Performance of Public and Commercial Building Assemblies*, Florida Agricultural and Mechanical University-Florida State University (FAMU-FSU) in cooperation with the University of Florida (UF), 2004
2. *Summary Report on Debris Impact Testing at Texas Tech University*, Texas Tech University (TTU), 2003
3. *Design and Construction Guidance for Community Shelters* (FEMA 361), Federal Emergency Management Agency, 2000

Column 5 – Level of Protection, which is subdivided into Basic-D (9 lb 2x4 @ 34 mph) and Enhanced-A (9 lb 2x4 @ 65 mph) through Enhanced-D/Tornado EF2 (15 lb 2x4 @ 85 mph); Column 5 also lists the respective impact momentum associated with each level of protection

Under the listed levels of protection in Column 5, the specified test performance results are given as “Satisfied the Test Criteria” (S); “Failed the Test Criteria” (F); or “No Data/Not Determined” (ND). For assemblies that fail at a given level of protection, the higher performance requirements are listed as “---.”

All dimensions are subject to conventional industry tolerances unless noted otherwise. The order of materials given in each assembly description is listed from the outside/outer most surface material (opposite the occupied shelter space), then inwards toward the inside finish surface material (if any). The missile impact is assumed to be on the outside surface. The order of installation is important, since some of the assemblies rely on flexure to resist (or absorb) the impact forces (e.g., for Wall No. 7, the 14 ga. expanded steel sheeting must be located between the double 2x4 wood stud supports on the inside of the assembly, and the two layers of 3/4 inch plywood located at the outer most surface).

Tables K-3 and K-4 provide nominal reinforcement and connection information. The building designer of record is responsible for determining all design loads and specifying all structural elements and connections in accordance with applicable material design standards, codes, rules, regulations and manufacturer’s instructions. The Division strongly recommends that design wind pressures for components and cladding be calculated with directionality factor ( $K_d$ ) = 1.0 and wind exposure category = C.

Note that there is insufficient data available to establish a stand-alone Basic-E level of protection category. Therefore, in the absence of specific tests performed to satisfy Basic-E, the Division recommends use of the Enhanced-A level of protection category for design wind speeds that are less than 140 mph.

<b>Table K-1. Windborne Debris Impact Criteria Comparisons for Vertical Surfaces</b>						
Level of Protection, Vertical Surface	Hurricane Design Wind Speed, mph (3-sec. gust)	Missile Weight, lbs	Missile Velocity, mph	Missile Velocity, ft/sec	Energy, ft-lb	Momentum, lb-sec
Basic-D	85 or less	9	34	50	349	14
Basic-E	86-140	9	50	74	765	21
Basic-E	86-140	9	55	80	894	22
Enhanced-A	141-160	9	60	88	1,082	25
<b>Enhanced-A*</b>	<b>141-160</b>	<b>9</b>	<b>65</b>	<b>95</b>	<b>1,261</b>	<b>27</b>
Enhanced-B	161-200	9	70	103	1,483	29
Enhanced-B	161-200	9	75	110	1,691	31
<b>Enhanced-B*</b>	<b>161-200</b>	<b>9</b>	<b>80</b>	<b>117</b>	<b>1,913</b>	<b>33</b>
Enhanced-C	201-250	9	85	125	2,184	35
Enhanced-C	201-250	9	90	132	2,435	37
Enhanced-C	201-250	9	95	139	2,700	39
<b>Enhanced-C*</b>	<b>201-250</b>	<b>9</b>	<b>100</b>	<b>147</b>	<b>3,020</b>	<b>41</b>
Enhanced-B	161-200	15	50	74	1,275	34
Enhanced-C	201-250	15	55	80	1,491	37
Enhanced-C	201-250	15	60	88	1,804	41
<b>Enhanced-D*</b>	<b>EF3 Tornado</b>	<b>15</b>	<b>85</b>	<b>125</b>	<b>3,639</b>	<b>58</b>
<b>Enhanced-E*</b>	<b>EF4 &amp; 5 Tornado</b>	<b>15</b>	<b>100</b>	<b>147</b>	<b>5,033</b>	<b>68</b>

\*-Denotes missile impact criteria (weight and velocity) selected to represent the specified level of protection.

<b>Table K-2. Windborne Debris Impact Criteria Comparisons for Horizontal Surfaces</b>						
Level of Protection, Horizontal Surface**	Hurricane Design Wind Speed, mph (3-sec. gust)	Missile Weight, lbs	Missile Velocity, mph	Missile Velocity, ft/sec	Energy, ft-lb	Momentum, lb-sec
Basic-D***	85 or less	9	23	34	162	10
Basic-E***	86-140	9	33	48	322	13
Basic-E***	86-140	9	37	54	408	15
Enhanced-A	141-160	9	40	57	454	16
<b>Enhanced-A*</b>	<b>141-160</b>	<b>9</b>	<b>44</b>	<b>65</b>	<b>590</b>	<b>18</b>
Enhanced-B	161-200	9	47	69	665	19
Enhanced-B	161-200	9	50	74	765	21
<b>Enhanced-B*</b>	<b>161-200</b>	<b>9</b>	<b>54</b>	<b>79</b>	<b>872</b>	<b>22</b>
Enhanced-C	201-250	9	57	84	986	23
Enhanced-C	201-250	9	60	88	1,082	25
Enhanced-C	201-250	9	64	94	1,235	26
<b>Enhanced-C*</b>	<b>201-250</b>	<b>9</b>	<b>67</b>	<b>98</b>	<b>1,342</b>	<b>27</b>
Enhanced-B	161-200	15	33	48	537	22
Enhanced-C	201-250	15	37	54	679	25
Enhanced-C	201-250	15	40	57	757	27
<b>Enhanced-D*</b>	<b>EF3 Tornado</b>	<b>15</b>	<b>57</b>	<b>84</b>	<b>1,643</b>	<b>39</b>
<b>Enhanced-E*</b>	<b>EF4 &amp; 5 Tornado</b>	<b>15</b>	<b>67</b>	<b>98</b>	<b>2,237</b>	<b>46</b>

\*-Denotes missile impact criteria (weight and velocity) selected to represent the specified level of protection.  
\*\*-Horizontal surface impact loading velocity is based on tornado factor of 0.67 of vertical surface velocity.  
\*\*\*-SSTD 12, ASTM E 1886 and E 1996 and the structural requirements of Section 423.25.4, FBC do not permit a reduction in basic missile test velocity due to an assembly's horizontal surface orientation.

<b>Table K-3. Windborne Debris Impact Resistant Wall Assemblies</b>								
<b>Wall No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				Minimum Required Impact Momentum Resistance, lb-sec				
				14	27	33	41	58
1	Wood	One layer 1/2 inch CD grade plywood on metal or 2"x4" wood studs	1	F	---	---	---	---
2	Wood	Stucco veneer on one layer 1/2 inch CD grade plywood, OSB, GWB or rigid insulation on metal or 2"x4" wood studs	1	F	---	---	---	---
3	Wood	One layer 3/4 inch CD grade plywood on double 2"x4" wood studs (4"x4")	2	S	F	---	---	---
4	Wood	Two layers 3/4 inch CD grade plywood on double 2"x4" wood studs (4"x4")	2	S	S	F	---	---
5	Wood	One layer 1/2 inch CD grade plywood with masonite siding on 2"x4" wood studs	2	ND	ND	F	---	---
6	Wood	One layer 1/2 inch CD grade plywood with 5/16 inch hardiboard siding, metal or 2"x4" wood studs	1	F	---	---	---	---



<b>Table K-3. Windborne Debris Impact Resistant Wall Assemblies</b>								
<b>Wall No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				<b>Minimum Required Impact Momentum Resistance, lb-sec</b>				
				14	27	33	41	58
7	Wood	Two layers 3/4 inch CD grade plywood, 14 ga. sheet steel liner and double 2"x4" wood studs (4"x4")	2	S	S	S	S	S
8	Wood	4 inch brick veneer, 1/2 inch CD grade plywood sheathing and 2"x4" wood studs at 24 in oc	1	S	S	F	---	---
9	Wood	4 inch brick veneer, 7/16 inch OSB sheathing on 2"x4" wood studs at 24 in oc	1	S	S	F	---	---
10	Wood	24 ga. or 26 ga. galv. metal siding on 1/2 inch CD grade plywood and 2"x4" wood stud	1	S	F	---	---	---
11	Wood	24 ga. or 26 ga. galv. metal siding on 7/16 inch OSB and 2"x4" wood stud	1	S	F	---	---	---
12	Metal	24 ga. or 26 ga. (50 ksi) galv. metal panels on Z 8.25, 14 ga. girts @ 5 feet oc	1	S	ND	ND	ND	ND
13	Metal	24 ga. (50 ksi) galv. metal panels on Z 8.0, 16 ga. girts @ 3 feet oc	1	S	S	S	ND	ND
14	Metal	24 ga. (80 ksi) galv. metal panels on Z 8.0, 16 ga. girts @ 3 feet oc	1	S	S	S	ND	ND

<b>Table K-3. Windborne Debris Impact Resistant Wall Assemblies</b>								
<b>Wall No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				<b>Minimum Required Impact Momentum Resistance, lb-sec</b>				
				14	27	33	41	58
15	Metal	20 ga. or 22 ga. (50 ksi) metal panels on Z 8.25, 16 ga. girts @ 3 feet oc	1	S	S	S	ND	ND
16	CMU	8, 10 and 12 inch hollow cell CMU with #4 or larger rebar vertical reinforcement in grout filled cells as required for wind design; truss-type horizontal reinforcement in joints @ 16 inches oc	1,2	S	F	---	---	---
17	CMU	8 inch structural pea-gravel grout filled CMU reinforced with #4 or larger rebar as required for wind design; truss-type horizontal reinforcement in joints @ 16 inches oc	2	S	S	S	S	ND
18	CMU	4 inch brick veneer with 8, 10 or 12 inch hollow cell CMU back-up reinforced with #4 or larger rebar as required for wind design; truss-type horizontal reinforcement in joints @ 16 inches oc	1	S	S	ND	ND	ND

<b>Table K-3. Windborne Debris Impact Resistant Wall Assemblies</b>								
<b>Wall No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				<b>Minimum Required Impact Momentum Resistance, lb-sec</b>				
				14	27	33	41	58
19	CMU	6 inch structural pea-gravel grout filled CMU reinforced with #4 or larger rebar in every cell; truss-type horizontal reinforcement in joints @ 16 inches oc	2,3	S	S	S	S	S
20	CMU	8, 10 or 12 inch structural pea-gravel grout filled CMU reinforced with #4 or larger rebar in every cell; truss-type horizontal reinforcement in joints @ 16 inches oc	2,3	S	S	S	S	S
21	RC	2 inch pea-gravel concrete with #4 rebar at 12 inches oc each way	2	S	F	---	---	---
22	RC	3 inch pea-gravel concrete with #4 rebar at 12 inches oc each way	2	S	S	S	S	S
23	RC	4 inch to 6 inch pea-gravel concrete reinforced with #4 rebar at 12 inches oc each way	2	S	S	S	S	S
24	RC	5 inch pea-gravel concrete tilt-up wall panel reinforced with #5 rebar at 12 inches oc longitudinal and #3 rebar at 12 inches oc temperature reinforcement	1	S	S	ND	ND	ND

<b>Table K-3. Windborne Debris Impact Resistant Wall Assemblies</b>								
<b>Wall No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				<b>Minimum Required Impact Momentum Resistance, lb-sec</b>				
				14	27	33	41	58
25	RC	6 inch pea-gravel concrete panel reinforced with #4 rebar at 12 inches oc each way	2,3	S	S	S	S	S
26	RC	6 inch pea-gravel concrete panel reinforced with #4 rebar at 24 inches oc each way	2	S	S	S	S	S
27	RC	8 inch to 10 inch pea-gravel concrete reinforced with #4 rebar at 12 inches oc each way, placed 1-1/2 inches from each face	2	S	S	S	S	S
28	RC	11 inch brick cavity masonry wall with cavity filled with pea-gravel concrete and reinforced with #4 rebar at 12 inches oc each way	2	S	S	S	S	S
29	ICF	6 inch (or thicker) ICF wall panels with concrete at least 4 inches thick and reinforced with #4 rebar at 12 inches oc each way	1,2	S	S	S	S	ND
30	ICF	6 inch (or thicker) ICF waffle-grid wall section reinforced with #5 rebar every 12 inches vertically and #4 rebar every 16 inches horizontally	1,2	S	S	S	S	ND

<b>Table K-3. Windborne Debris Impact Resistant Wall Assemblies</b>								
<b>Wall No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				Minimum Required Impact Momentum Resistance, lb-sec				
				14	27	33	41	58
31	AAC	8x8x24 Autoclaved Aerated Concrete wall panel	1	S	F	---	---	---
S = Satisfied the Test Criteria F = Failed the Test Criteria ND = No Data/Not Determined								

<b>Table K-4. Windborne Debris Impact Resistant Roof Assemblies</b>								
<b>Roof No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				Minimum Required Impact Momentum Resistance, lb-sec				
				10	18	22	27	39
1	Wood	One layer 1/2 inch CD grade plywood or 7/16 inch OSB on metal or wood joist or truss with wood, clay or asphalt shingle roof cover	1	F	---	---	---	---
2	Wood	One layer 19/32 inch or thicker CD grade plywood on metal or wood joist or truss with wood, clay or asphalt shingle roof cover	1	S	F	---	---	---
3	Wood	24 ga. or 26 ga. galv. metal roof cover on 1/2 inch or thicker CD grade plywood on metal or wood joist or truss	1	S	ND	ND	ND	F
4	Metal	24 ga. or 26 ga. (50 ksi) galv. metal panels on 16 ga. purlins @ 2 feet oc	1	S	S	S	ND	ND
5	Metal	20 ga. or 22 ga. (50 ksi) metal panels on Z 8.25, 16 ga. purlins @ 2 feet oc	1	S	S	S	ND	ND
6	Metal	1-1/2 inch 20 ga. or 22 ga. Type B, Grade 33 structural metal deck over Z 8.25 girt supports @ 5 feet oc with 26 ga. galv. metal roof cover	1	S	S	S	S	S

<b>Table K-4. Windborne Debris Impact Resistant Roof Assemblies</b>								
<b>Roof No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				<b>Minimum Required Impact Momentum Resistance, lb-sec</b>				
				10	18	22	27	39
7	Metal	1-1/2 inch 20 ga. or 22 ga. Type B, Grade 33 structural metal deck over supports @ 4 feet oc with 26 ga. galv. metal roof cover	1	S	S	S	S	S
8	Metal	3 inch 22 ga. structural metal deck	1	S	S	S	S	F
9	RC	CIP 2 inch pea-gravel concrete with #4 rebar at 12 inches oc each way	2	S	S	F	---	---
10	RC	CIP 3 inch pea-gravel concrete with #4 rebar at 12 inches oc each way	2	S	S	S	S	S
11	RC	CIP 4 inch to 6 inch pea-gravel concrete reinforced with #4 rebar at 12 inches oc each way	2	S	S	S	S	S
12	RC	CIP 8 inch to 10 inch pea-gravel concrete reinforced with #4 rebar at 12 inches oc each way, placed 1-1/2 inches from each face	2	S	S	S	S	S
13	RC	4 inch or thicker concrete panel reinforced with #4 rebar at 12 inches oc each way	1,2	S	S	ND	ND	ND
14	RC	Precast 6 inch reinforced concrete hollow core slab	1	S	S	S	S	ND

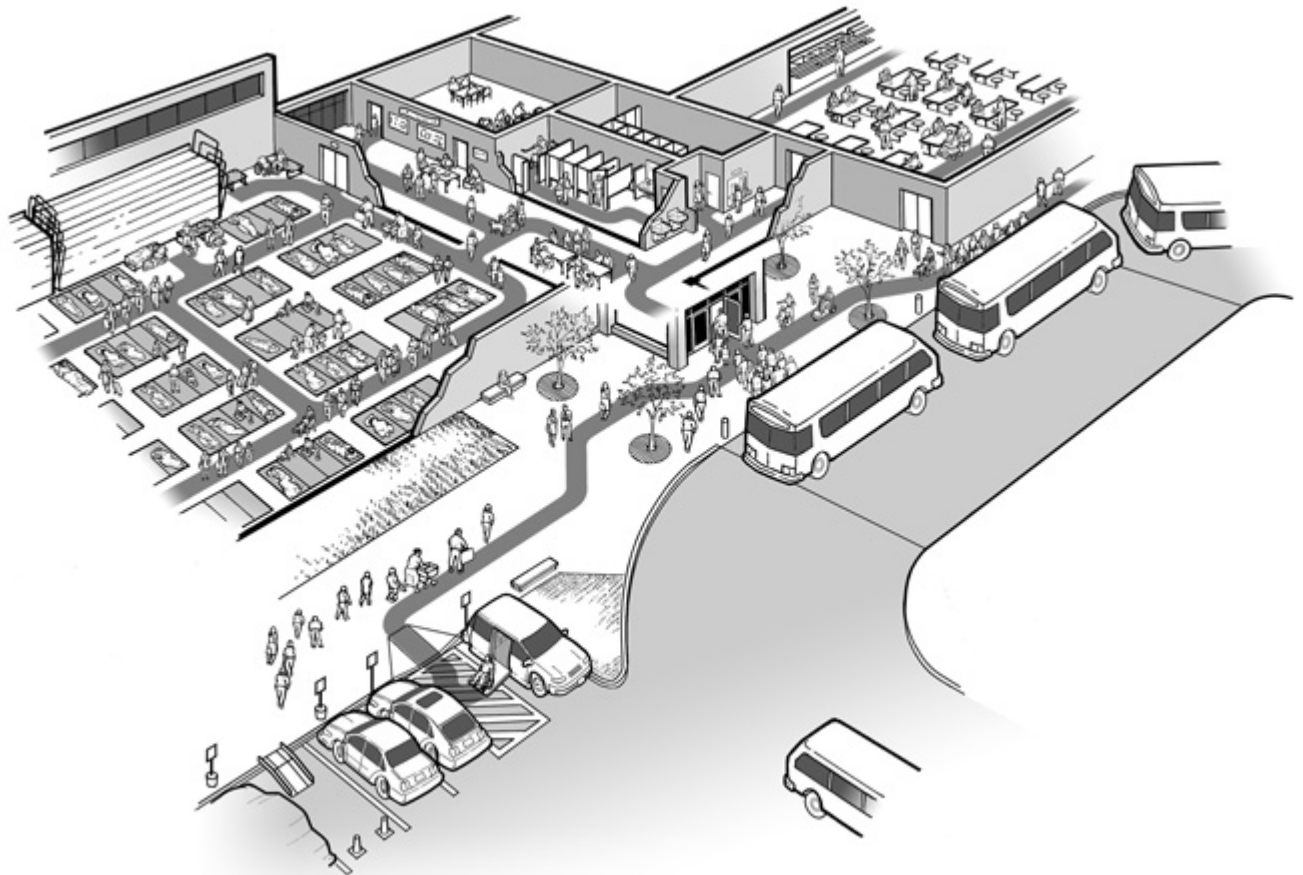
<b>Table K-4. Windborne Debris Impact Resistant Roof Assemblies</b>								
<b>Roof No.</b>	<b>Assembly Type</b>	<b>Assembly Description</b>	<b>Data Source</b>	<b>Level of Protection</b>				
				<b>Basic D</b>	<b>Enhanced A</b>	<b>Enhanced B</b>	<b>Enhanced C</b>	<b>Enhanced D</b>
				Minimum Required Impact Momentum Resistance, lb-sec				
				10	18	22	27	39
15	RC	Precast 8, 10 or 12 inch reinforced concrete hollow core slab	1	S	S	S	S	S
S = Satisfied the Test Criteria F = Failed the Test Criteria ND = No Data/Not Determined								





## Americans with Disabilities Act/Florida Accessibility Code

# Checklist for Emergency Shelters



March 3, 2008

U.S. Department of Justice  
Civil Rights Division  
*Disability Rights Section*



*Corrected to reflect Florida code with permission*

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## **Disclaimer**

The ADA authorizes the Department of Justice to provide technical assistance to individuals and entities that have rights or responsibilities under the Act. This document provides informal guidance to assist you in understanding the ADA and the Department's regulation. However, this technical assistance does not constitute a legal interpretation of the statute.

### **ADA Checklist for Emergency Shelters**

- A. Evaluating the Physical Accessibility of Emergency Shelters
- B. Conducting Accessibility Survey
- C. Getting Started
- D. Tools Needed
- E. Taking Measurements
  - 1. Sloped Surfaces
  - 2. Using the Tape Measure
  - 3. Measuring Door Openings
- F. Taking Photographs
- G. Completing the Survey and Checklist
- H. After Completing the Survey and Checklist

### **Step One: Accessible Shelter Quick-Check Survey**

Selecting Sites to Survey for Accessibility

- A. Accessible Entrance
- B. Accessible Routes To All Service/Activity Areas
- C. Accessibility within Toilet Rooms

### **Step Two: Ada Checklist For Emergency Shelters**

Getting to the Emergency Shelter

- A. Passenger Drop-Off Areas
- B. Parking
  - 1. Typical Issue

- 2. Parking Spaces Checklist
- 3. Temporary Solutions for Emergency Sheltering - Parking
- C. Sidewalks and Walkways
  - 1. Typical Issues for Individuals Who Use Wheelchairs, Scooters, or other Mobility Devices
    - Accessible Ramp Features
    - Temporary Solutions For Emergency Sheltering - Ramps
  - 2. Typical Issues for Individuals Who Are Blind or Have Low Vision
    - Temporary Solutions For Emergency Sheltering - Protruding Object Hazards
- D. Entering the Emergency Shelter
  - Building Entrance
- E. Hallways and Corridors
  - 1. Typical Issues for Individuals Who Use Wheelchairs, Scooters, or Other Mobility Devices
  - 2. Typical Issues for People Who are Blind or Have Low Vision
- F. Check-In Areas

### Living at the Emergency Shelter

- G. Sleeping Areas
- H. Restrooms and Showers
  - Toilet Stalls
- I. Public Telephones
- J. Drinking Fountains
- K. Eating Areas

### Other Issues

- L. Availability of Electrical Power
- M. Single-User or “Family” Toilet Room
- N. Health Units/Medical Care Areas
- O. Accessible Portable Toilets

## **Accessible Emergency Shelters**

One of the most important roles of State and local government is to protect people from harm, including helping people obtain food and shelter in major emergencies. When disasters occur, people are often provided safe refuge in temporary shelters located in schools, office buildings, tents, or other facilities.



Advance planning for an emergency shelter typically involves ensuring that the shelter will be well stocked with basic necessities, such as food, water, and blankets. Planning should also involve ensuring that these shelters are accessible to people with disabilities. Making emergency sheltering programs accessible is generally required by the Americans with Disabilities Act of 1990 (ADA).

### **A. Evaluating the Physical Accessibility of Emergency Shelters**

In order to be prepared for an emergency that requires sheltering, accessible features should be part of an emergency shelter. A first step to providing an accessible shelter is to identify any physical barriers that exist that will prevent access to people with disabilities. One good way to do this is to inspect each shelter facility that your community plans to use in an emergency and identify barriers to people with disabilities, including people who use wheelchairs or scooters or who have difficulty walking, people who are deaf or hard-of-hearing, and people who are blind or who have low vision. Facilities built or extensively altered since the ADA went into effect in 1992 (October 1, 1997 in Florida) may have few barriers to accessibility and could be good choices for emergency shelters. Facilities built before 1992 (1997 in Florida) and not altered to provide accessibility may have barriers that prevent access to people with disabilities.

When evaluating physical accessibility in older facilities, it may be a good idea to do the analysis in two parts. If you suspect that an older facility is not accessible, you can do a preliminary analysis before completing a detailed accessibility survey. This preliminary analysis, or quick-check, can eliminate facilities with extensive barriers so that the focus can be on those facilities that are most appropriate to become accessible shelters. To help identify older buildings that may be good candidates to become accessible shelters, a copy of the Accessible Shelter Quick-Check Survey is provided on page 7. After completing the Quick-Check Survey, if you have checked “Yes” for most of the questions on the forms, you should conduct a full accessibility survey using the ADA Checklist for Emergency Shelters.

If you find barriers to accessibility after completing the checklist, the next step is to either remove the barriers or identify other nearby accessible facilities that can serve as a shelter. In communities with more than one emergency shelter, until all shelters are accessible, the locations of accessible shelters should be widely publicized, particularly to people with disabilities and organizations that serve the disability community.

## **B. Conducting Accessibility Surveys**

The following Quick-Check Survey (beginning on page 7) and the ADA Checklist for Emergency Shelters (beginning on page 11) are designed to assist State and local officials and operators of emergency shelters to determine whether a facility being considered for use as an emergency shelter is accessible and if not, whether modifications are needed to remove barriers or whether relocation to another accessible facility is necessary. Filling out the Quick-Check Survey will provide guidance on whether a facility has certain basic accessible features, and filling out the detailed ADA Checklist for Emergency Shelters will provide specific information on any barriers to accessibility.

## **C. Getting Started**

Individuals conducting the surveys need not be experienced in evaluating facilities for accessibility. The checklist provides guidance on how to complete the survey and will prompt the user to check key elements. The checklist pages also provide space for notes and other key information. The checklist is designed to prompt the user to check key features by asking questions about sizes, sloped surfaces, and availability of accessible features; and in some areas, it suggests alternatives if a physical barrier is identified. By following the directions provided for filling out the checklist, staff can identify accessible shelters and develop information needed to implement temporary and permanent accessibility modifications.

An evaluation of shelter accessibility should focus on those areas of the facility that may be used for providing shelter in an emergency. These include areas where people are dropped off by a bus, van, or car; the parking area; the entrance to the shelter; pedestrian routes (both exterior and interior); sleeping, eating, information, and recreational areas; and toilet rooms.

Before shelter accessibility is evaluated, it is useful for staff to review the instructions for filling out the checklist and become familiar with the questions. It is also helpful to practice taking measurements, photographs, and recording information. On the day of the survey, it is helpful to first become familiar with certain areas before starting to record information. Upon arrival at the proposed shelter, first find the areas where people will disembark from vehicles, both passenger drop-off and loading zones as well as parking areas. Next find the entrances to the shelter areas that will be used during an evacuation. If possible, take an identifying “location” photograph that shows the name of the facility

and the address so that other photographs can be identified correctly. When inside the building, locate the areas where people are likely to register, sleep, and eat. Locate the toilet rooms that serve the shelter area. It is also a good idea to locate any areas used for telephones, food distribution, and medical services.

#### **D. Tools Needed**

The following items are needed for the survey:

- A metal tape measure that is at least 20 feet long;
- A digital level or bubble level that is 24 inches long;
- A door pressure gauge;
- A digital (preferred) or film camera with a flash;
- One copy of the checklist for each shelter (and Quick-Check Survey if used); and
- A clipboard and pens.

If you are not familiar with taking the types of measurements needed to complete the checklist, review the following section and practice using the tools before going to conduct a survey.

#### **E. Taking Measurements**

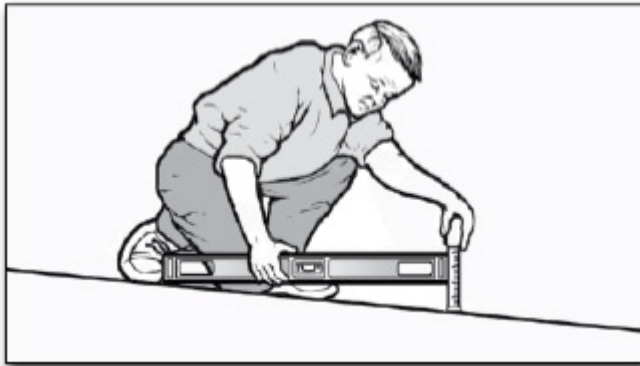
##### **1. Sloped Surfaces**

Measuring the slope of a ramp, parking space, walkway, or other ground or floor surface is important to identify whether the surface is accessible. The amount of slope or grade is described as the proportion of a vertical rise to a horizontal length. It is usually described as:

- a ratio (e.g., 1:20, which means one unit of vertical rise for each 20 units of horizontal length); or
- a percentage (e.g., 8.33% which equates to a ratio of 1:12 or 4.76 degrees).

The easiest way to measure slope is to use a digital level. The digital display gives a reading that may be shown as a percent, degrees, or as a digital bubble. Before using a digital level, make sure to understand the directions for its use. It will need to be calibrated before each use. The maximum running slope generally allowed for ramps is 1:12 (8.33% or 4.76 degrees). Cross slope is the slope or grade of a surface perpendicular to the running slope. The most cross slope allowed on an accessible route is 1:50 (2% or 1.15 degrees).

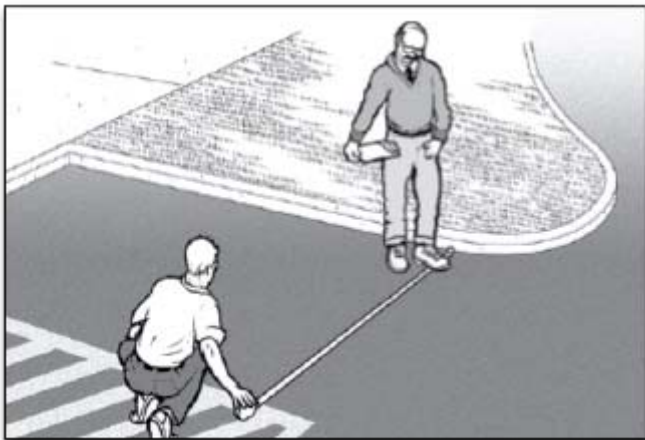
Another way to measure slope that requires more effort is to use a 24-inch level with leveling bubble and a metal tape measure. Place the level on the sloped surface in the direction you wish to measure. Rest one end of the level at the highest point of the sloped surface and lift the other end (see below) until the bubble is in the middle of the tube. This is the “level” position. While the level is in this position, measure the distance between the end of the level and the sloped surface below. If the distance is two inches or less, then the slope is 1:12 or less. When the distance is more than two inches, record the distance on the checklist so the exact slope can be calculated later. For measuring cross slope, if the distance, measured from the level position, is  $\frac{1}{2}$  inch or less then the slope is 1:48 or less.



**Measuring slope using a 24-inch bubble level and tape measure**

## **2. Using the Tape Measure**

A metal tape measure is needed to measure the length, width, height, and depth of various elements. When measuring long distances, pull the tape tight to get an accurate measurement. The checklist will offer guidance for the specific measurement that is required.



**Using a tape measure to measure the width of a parking space**

### 3. Measuring Door Openings

Special care is needed when measuring the clear opening of a doorway. To measure the clear opening of a standard hinged door, open the door to 90 degrees. Place the end of the tape measure on the side of the door frame next to the clear opening (see below). Stretch the tape across the door opening to the face of the door. This measures the clear width of the door opening through which people pass, which is less than the width of the door itself.



**Measuring the clear opening from the face of the doorstop on the frame to the face of the open door**

### F. Taking Photographs

A comprehensive set of photographs makes it easier to understand existing conditions after the survey is completed. It is a good idea to take many photos of the exterior and interior of the potential shelter. It is likely that many other people in your decision-making process will need to review information about the facility you are surveying, so try to record each element that you survey with several photos. It is always useful to first take a photo that will clearly identify the location of the element so that others will easily be able to find the element. Then, take several close-up shots of that element to document the conditions you found during your survey. If you are not familiar with the camera that you plan to use, practice using it both indoors and outdoors before starting to survey the various facilities being considered for use as shelters. If you are using a digital camera, it is a good idea to review the images as you take them to ensure that you have good quality photographs.



## **G. Completing the Survey and Checklist**

The survey and checklist forms will prompt you for what to look at and where to measure. You should write down all answers and notes for use later in the planning process. If a photo is taken of a particular element or condition, then you should note this on the checklist. It is usually more efficient for two or three people to work together doing these surveys. One person can measure while the other records the information and takes photos.

For each item, check either “Yes” or “No.” If the measurement or number falls short of that required for accessibility, write the measurement or number to the right of the question. Add notes or comments as needed. For some questions when “No” is the answer, the checklist will include a prompt to check for an alternate solution. Information on possible alternative solutions can be used later to decide how to better provide accessibility. Taking several photos is also helpful when the answer is “No” and an alternative way to provide accessibility is not readily apparent.

When completing the survey or checklist, try to answer every question in each section unless the element is not present at that facility. For example, if no parking lot is provided at the facility, (such as where only on-street parking is provided), do not measure the size of the on-street parking spaces.

Some sections of the checklist are divided into two parts, one for individuals with a mobility disability and the other for individuals who are blind or who have low vision. While evaluating a facility you will be checking to ensure that an accessible route is provided. The accessible route is a continuous unobstructed pedestrian path without steps or steep slopes that connects all accessible site and building features and spaces together. A continuous accessible route must be available at the shelter for people who use a wheelchair, scooter, or other mobility device. Other sections of the checklist ask questions related to individuals who are blind or have low vision. These questions cover all circulation paths, not just pedestrian paths that are also an accessible route.

The survey and the checklist are based on some of the requirements from the ADA Standards for Accessible Design (the Standards). Questions have been selected to reflect features that may be most important for the short-term stays common for emergency shelters. To learn more about the Standards, see the Department of Justice regulations, 28 C.F.R. Part 36, Appendix A. The regulations and the Standards are available at [www.ada.gov](http://www.ada.gov). Copies are also available by calling the ADA Information Line at 800-514-0301 (voice) or 800-514-0383 (TTY).

## **H. After Completing the Survey and Checklist**

Once you have completed the survey and filled out the checklist, you can determine which elements or spaces in a potential shelter facility are accessible and which may need modifications. If most answers are “yes,” the facility may need little or no modification. If some answers are “no,” modifications may be needed to remove barriers found in that space or element. Emergency shelters in older buildings with inaccessible features might be made accessible with temporary modifications, (such as portable ramps at the entrance and accessible parking spaces marked off by traffic cones) until permanent modifications can be made. However, where facilities are not capable of being made accessible, another facility will need to be selected for use as a shelter.

## **Step One: Accessible Shelter Quick-Check Survey**

### **Selecting Sites to Survey for Accessibility**

Providing an emergency shelter that is accessible to people with disabilities involves making sure that a number of accessible features and spaces are available. To verify accessibility before deciding on a site for an emergency shelter can involve asking many questions such as those in the ADA Checklist for Emergency Shelters. For some older buildings, especially those on hilly sites and those that have not been renovated, remodeled, or altered since 1992, before completing the detailed checklist, it may be better to do a pre-test that can rule out a facility with major accessibility problems so available resources can be focused on other locations. The following questions will help evaluate whether a facility has such major accessibility barriers. After this first step, buildings that do not have major accessibility problems should be surveyed more thoroughly, using the ADA Checklist for Emergency Shelters, to find out which, if any, barriers need to be removed to provide an accessible shelter.

#### **A. Accessible Entrance**

Having a way to get into the emergency shelter on a surface that is firm, stable, slip resistant, without steps or steep slopes, and wide enough for a person using a wheelchair or other mobility aid is essential.

A1. Is there a sidewalk connecting the parking area and any drop off area to the walkway leading to the building? [ADA Standards § 4.1.3(1)]

Yes

No

A2. Is there a route without steps from this sidewalk to the main entrance?

Yes

No

If No, are there two or fewer steps? Yes \_\_\_\_\_ No \_\_\_\_ Number of Steps: \_\_\_\_\_

If No, is there another entrance without steps that is connected by a sidewalk to the parking or drop off area? Yes \_\_\_\_\_ No \_\_\_\_ Location: \_\_\_\_\_

### **B. Accessible Routes To All Service/Activity Areas**

Everyone must be able to get to each of the various areas where activities and services take place. This includes people who use mobility devices, such as wheelchairs and scooters, being able to get to locations where supplies are distributed, to eating areas, to sleeping areas, to toilet rooms, and to other activity areas without encountering stairs or steep slopes.

Check all of the various ways to get to each of the areas where sheltering activities are likely to take place (sleeping, eating,

B1. Sleeping Area (Location: \_\_\_\_\_)

B1-a. Is there a route without steps from the accessible entrance to this location?

Yes

No

If No, are there two or fewer steps? Yes \_\_\_\_ No \_\_\_\_ Number of Steps: \_\_\_\_\_

If No, is there a ramp, lift, or elevator? Yes \_\_\_\_ No \_\_\_\_ Type of device: \_\_\_\_\_

B1-b. If an elevator or lift provides the only accessible route, is there a source of backup power to operate the device for an extended period?

Yes

No

B2. Eating Area (Location: \_\_\_\_\_)

B2-a. Is there a route without steps from the accessible entrance to this location?

Yes

No

If No, are there two or less steps? Yes \_\_\_ No \_\_\_ Number of Steps: \_\_\_\_\_

If No, is there a ramp, lift, or elevator? Yes \_\_\_ No \_\_\_ Type of device: \_\_\_\_\_

B2-b. If an elevator or lift provides the only accessible route, is there a source of back up power to operate the device for an extended period?

Yes

No

B3. Supply Distribution Area (Location: \_\_\_\_\_)

B3-a. Is there a route without steps from the accessible entrance to this location?

Yes

No

If No, are there two or fewer steps? Yes \_\_\_ No \_\_\_ Number of Steps: \_\_\_\_\_

If No, is there a ramp, lift, or elevator? Yes \_\_\_ No \_\_\_ Type of device: \_\_\_\_\_

B3-b. If an elevator or lift provides the only accessible route, is there a source of backup power to operate the device for an extended period?

Yes

No

B4. Toilet Rooms (Location: \_\_\_\_\_)

B4-a. Is there a route without steps from the accessible entrance to this location?

Yes

No

If No, are there two or fewer steps? Yes \_\_\_ No \_\_\_ Number of Steps: \_\_\_\_\_

If No, is there a ramp, lift, or elevator? Yes \_\_\_ No \_\_\_ Type of device: \_\_\_\_\_

B4-b. If an elevator or lift provides the only accessible route, is there a source of backup power to operate the device for an extended period?

Yes

No

### **C. Accessibility Within Toilet Rooms**

C1-a. Is there an area within the toilet room where a person who uses a wheelchair or mobility device can turn around - either a minimum 60-inch diameter circle or a "T"-shaped turn area? [ADA Standards §§ 4.22.3; 4.2.3, Fig. 3]

Yes

No

C1-b. Is at least one stall at least 66 inches deep and 36 inches wide (wall mounted toilet) or 69 inches deep and 48 inches wide (floor mounted toilet)? [FBC Standards § 11-4.17.3]

Yes

No

### **Using The Information:**

If most of your answers to the previous questions are Yes, then the facility has some basic accessibility features and should be surveyed using the ADA Checklist for Emergency Shelters. Whenever most of your answers are No, then these problems should be evaluated before conducting a more detailed survey, or perhaps you should consider another location to serve as an emergency shelter.

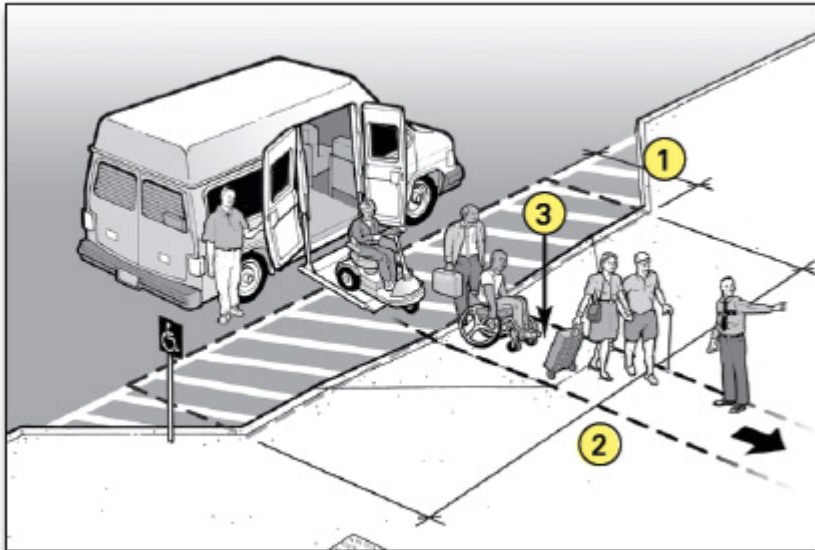
## **Step Two - ADA Checklist For Emergency Shelters**

## Getting to the Emergency Shelter

### A. Passenger Drop-Off Areas

During an evacuation the most efficient method of transporting people to shelters likely will include using vans and buses. Accessible buses and vans with wheelchair lifts will be needed to transport people who use wheelchairs, scooters, or other mobility aids. When they arrive at the shelter, an accessible drop-off area (also known as a passenger loading zone) is needed for people using mobility aids to get off of the bus or van and proceed to the shelter's accessible entrance.

An accessible drop-off area must have a level access aisle that is adjacent and parallel to the vehicle space. Where a curb separates the vehicle space from the access aisle or the access aisle from an accessible route, a curb ramp must be provided so people with mobility disabilities can get to the accessible route leading to the accessible entrance of the shelter.



**Accessible drop-off area with an access aisle provided at the same level as the vehicle.**

#### Notes

1. Access aisle depth is at least 5 feet.
2. Access aisle length is at least 20 feet. 3.
3. Curb ramp connects the access aisle for the accessible drop-off area (which is at the level of the parking lot) to the accessible route to the accessible entrance of the shelter.

The access aisle may be at the parking-lot level or at sidewalk level. If the access aisle is at the parking-lot level, the curb ramp is provided between the access aisle and the

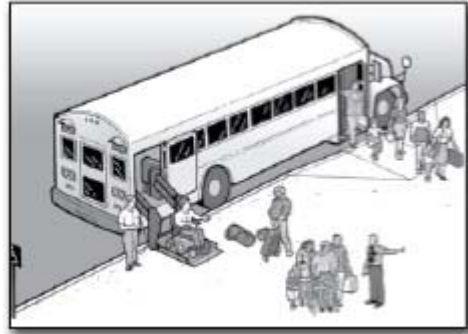
sidewalk. If it is at the sidewalk level, an adjacent curb ramp is provided between the street and the sidewalk.

A1. Is a relatively level (1:50 or 2% maximum slope in all directions) access aisle provided adjacent and parallel to the side of the vehicle pull-up area? [ADA Standards § 4.6.6]

Yes

No

If No, look for another relatively level location that is on an accessible route to the accessible shelter entrance that could be used.



**Accessible drop-off area with an access aisle provided as part of the sidewalk.**

A2. Is the vehicle pull-up area relatively level (1:50 or 2% maximum slope in all directions)?

Yes

No

A3. Is the area for the access aisle at least 5-feet wide and 20-feet long? [ADA Standards § 4.6.6].

Yes

No

*Note: Unlike at an accessible parking space, the surface for the access aisle of an accessible passenger drop-off area does not have to be marked or striped.*

A4. Is there vertical clearance of at least 114 inches (9 feet 6 inches) from the site entrance to the vehicle pull-up area, the access aisle, and along the vehicle route to the exit? [ADA Standards § 4.6.5]

Yes

No

A5. Is a curb ramp provided between the vehicle pull up area and the access aisle (see above) or the access aisle and the accessible route to the accessible entrance? [ADA Standards § 4.6.6]

Yes

No

If No, is there another area with a curb ramp and on an accessible route that could serve as the drop-off area?

If there is no curb ramp near the drop-off area, can a temporary ramp be used to connect the drop-off area access aisle to the accessible route to the accessible shelter entrance?

A6. If a curb ramp is provided, is the running slope of the ramp surface (not counting the side flares) no more than 1:12 or 8.33% [ADA Standards § 4.7.2]

Yes

No

A7. Is the width of the curb ramp surface at least 36 inches (not counting the side flares)? If the curb ramp is part of a required means of egress, its width must be 44 inches. [ADA Standards § 4.7.3, FBC 11-4.7.3]

Yes

No

A8. Does an accessible route connect the curb ramp to the shelter's accessible entrance? [ADA Standards § 4.1.2(1)]

Yes

No

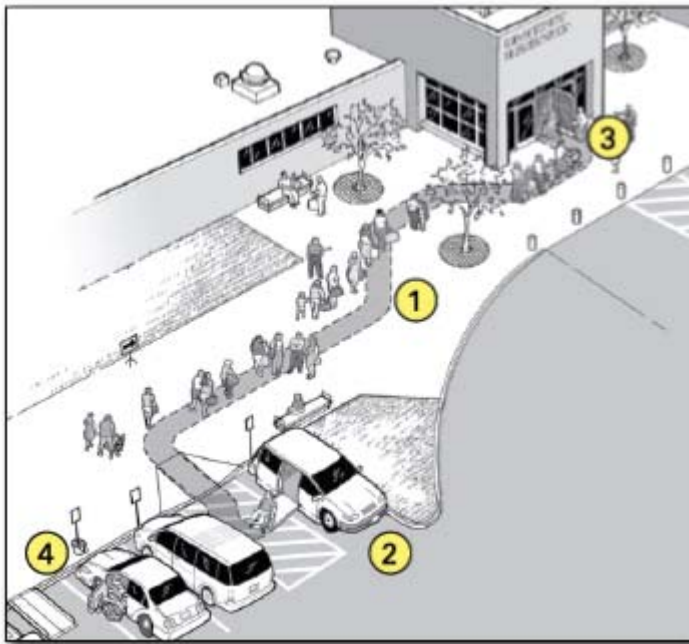
## **B. Parking**

### **1. Typical Issues**

During an evacuation, some individuals with a mobility disability may arrive at the shelter in a car or van. When parking areas are provided at the shelter site, accessible parking spaces must be provided. Individuals with disabilities who arrive at the shelter in their own car or van need to be able to park in an accessible parking space close to an accessible entrance. Accessible parking spaces need an adjacent access aisle that provides space for a person with a mobility disability to exit their vehicle. The access aisle connects directly to an accessible route that leads to an accessible building entrance. In order to be usable, the access aisle must be relatively level, clear of gravel or mud, and the surface must be in good condition without wide cracks or broken pavement.

An accessible route connects the permanent access aisle of each accessible parking space with the accessible entrance to the shelter. When an accessible route crosses a curb, a curb ramp must be provided. During an emergency, as a temporary measure, if additional accessible parking spaces are needed, a portable ramp can be provided in a parking space marked off by traffic cones to provide two additional accessible parking spaces (see page 18).





**An accessible entrance to an emergency shelter with accessible parking and additional temporary accessible parking spaces**

**Notes:**

1. Accessible route.
2. Accessible parking with van accessible parking space.
3. Accessible entrance to shelter.
4. Temporary accessible parking spaces.

**2. Parking Spaces Checklist**

B1. When parking areas are provided at the shelter site, count the total number of parking spaces provided in each area. Is the minimum number of accessible parking spaces provided, based on the total number of available parking spaces (see table below)? [FBC Standards § 4.1.2(5)(a)]

Yes

No

**Total Number of Parking Spaces in Each Parking Area**

**Required Minimum Number of Accessible Spaces**

<b>1- 25</b>	<b>1</b>
<b>26 - 50</b>	<b>2</b>
<b>51 - 75</b>	<b>3</b>
<b>76 - 100</b>	<b>4</b>
<b>101 - 150</b>	<b>5</b>

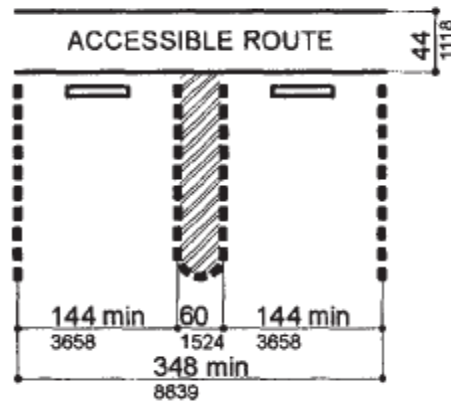
If more than 150 parking spaces are provided in a particular lot, see section 4.1.2 of the ADA Standards for the number of accessible parking spaces required.

B2. Does each accessible parking space have its own, or share, an adjacent access aisle that is at least 60 inches (5 feet) wide? [ADA Standards § 4.6.3]

Yes

No

**FIGURE 9(A)  
STANDARD PARKING SPACE DESIGN**



**Accessible Parking Spaces Showing Minimum Width of Vehicle Space and Access Aisle**

B3. Are all accessible spaces located on an accessible route no less than 44 inches (1118 mm) wide so that users will not be compelled to walk or wheel behind parked vehicles. [FBC Standards § § 4.6.2(1)]

Yes

No

B5. Are all accessible parking spaces, including the access aisle, relatively level (1:50 or 2%) in all directions? [ADA Standards § 4.6.3]

Yes

No

If No: Look for a nearby area that is relatively level in all directions that could serve as an accessible parking space with an accessible route to the accessible entrance to the shelter.

B6. Does each accessible parking space have a sign with the symbol of accessibility that is visible (84 inches above ground level) when a vehicle is parked in the space? [ADA Standards § 4.6.4, Florida Statutes 553.5041 (6)]

Yes

No

B7. Is the curb ramp surface at least 44 inches wide, excluding flared sides? [FBC Standards § 4.7.3]

Yes

No

B7-a. Is the slope (up or down the ramp) no more than 1:12? [ADA Standards § 4.7.2]

Yes

No

Note: 1:12 is one inch of vertical height for each 12 inches of length.

B8. Are the accessible parking spaces serving the shelter on the shortest accessible route to the accessible entrance? [ADA Standards § 4.6.2]

Yes

No

B9. Does each access aisle connect to an accessible route from the parking area to the shelter's accessible entrance? [ADA Standards § 4.6.2]

Yes

No

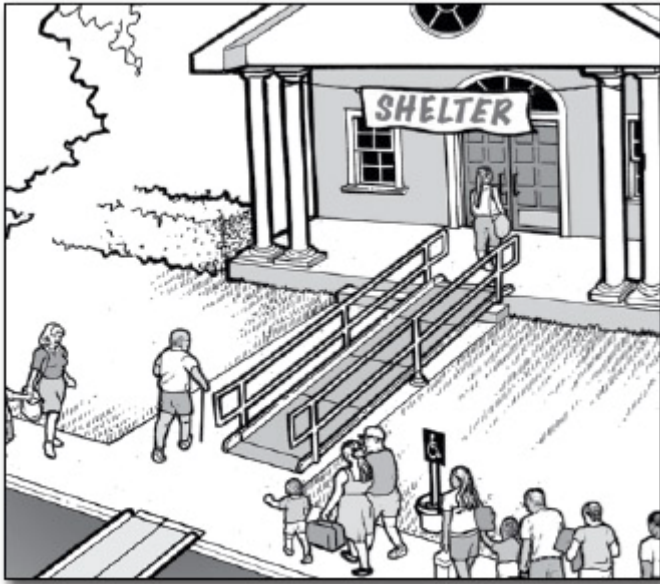
### 3. Temporary Solutions for Emergency Sheltering - Parking

**Problem:** Parking at the shelter facility either has no accessible parking, not enough accessible parking, or accessible parking spaces are not on level ground.

**Suggestion:** Find a fairly level parking area near the accessible entrance and mark the area for accessible parking spaces. Three regular parking spaces will make two accessible parking spaces with a shared access aisle. Provide a sign designating each accessible parking space. Ensure there is an accessible route from each access aisle to the accessible entrance.

If temporary accessible spaces are used, mark the temporary accessible parking spaces with traffic cones or other temporary elements. Traffic cones can also be used to mark off an access aisle if designated accessible parking spaces lack an access aisle or if the access

aisle is too narrow. At least one accessible parking space should be a van-accessible parking space with an access aisle that is at least 96 inches wide.

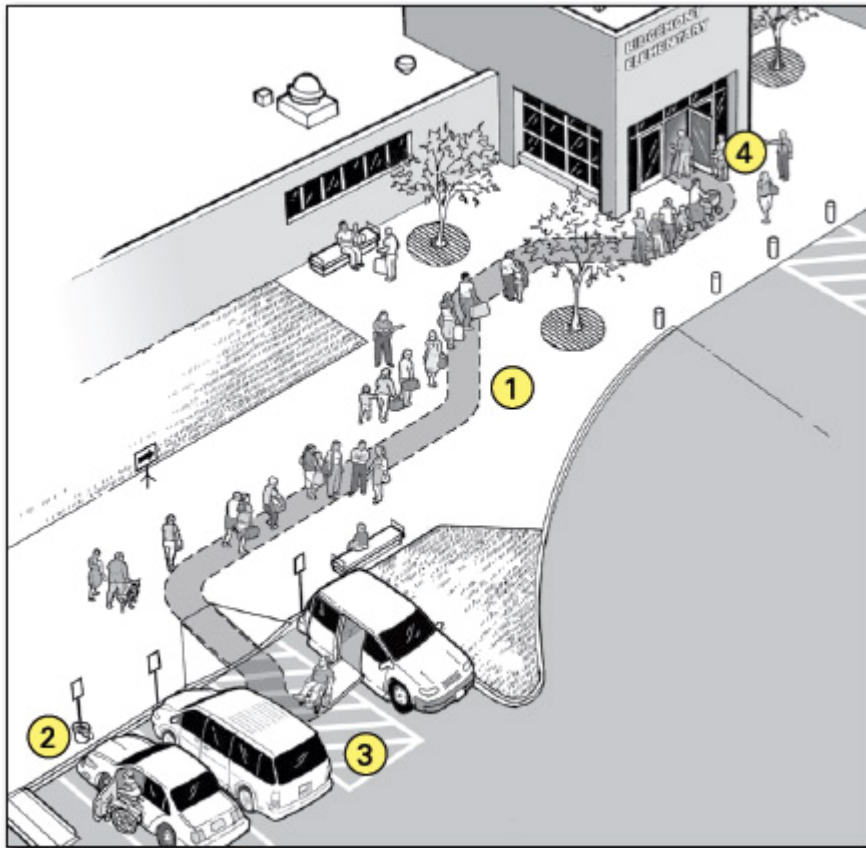


**Three standard parking spaces are converted into an accessible parking space with an access aisle. Cones mark the access aisle and a temporary curb ramp with edge protection connects to an accessible route to the shelter.**

### **C. Sidewalks and Walkways**

#### **1. Typical Issues for Individuals Who Use Wheelchairs, Scooters, or other Mobility Devices**

An accessible route connects accessible passenger drop-off areas, accessible parking spaces, and other accessible elements, like a route from a bus stop, to an accessible building entrance. The accessible route is essential for people who have difficulty walking or who use wheelchairs or other mobility aids to get to the accessible entrance of the shelter. The accessible route must be at least 36 inches wide (FBC- 44 inches wide if a required means of egress) (it may narrow briefly to 32 inches wide where utility poles, signs, etc. are located along the accessible route). Abrupt level changes, steps, or steep running or cross slopes cannot be part of an accessible route. Where ramps are used, they cannot be steeper than 1:12. Ramps with a vertical rise of more than 6 inches must have handrails on both sides. Ramps must also have edge protection to stop wheelchairs from falling off the sides, and level landings at the top and bottom of each segment and where the ramp changes direction.



**An accessible entrance to a shelter with accessible parking and an accessible drop-off area**

**Notes:**

- 1. Accessible route
- 2. Accessible drop-off area
- 3. Accessible entrance to shelter

C1-a. Is an accessible route provided from accessible parking spaces to the accessible entrance of the shelter? [ADA Standards § 4.1.2(1), 4.3]

Yes

No

C1-b. Is an accessible route provided from public sidewalks and public transportation stops on the shelter site (if provided) to the accessible entrance for the shelter? [ADA Standards § 4.1.2(1)]

Yes

No

Note: The accessible route is at least 36 inches wide (44 inches wide if part of a required means of egress) and may be a portion of a sidewalk.

C1-c. Is the accessible route at least 36 inches wide (44 inches wide if part of a required means of egress)? [ADA Standards § 4.3.3]

Yes

No

If No, does the accessible route narrow to 32 inches for no more than 2 feet?

C1-d. Is the accessible route free of steps and abrupt level changes higher than 1/2 inch? [ADA Standards § 4.3.8]

Yes

No

Note: Level changes between 1/4 inch and 1/2 inch should be beveled (sloped) at 1:2 maximum.

C1-e. Where an accessible route crosses a curb, is a curb ramp provided? [ADA Standards § 4.3.8]

Yes

No

e-i. Is the curb ramp surface at least 36 inches wide (44 inches wide if part of a required means of egress), excluding flared sides? [ADA Standards § 4.7.3]

Yes

No

e-ii. Is the running slope (up or down the ramp) no more than 1:12? [ADA Standards § 4.7.2]

Yes

No

Note: 1:12 is one 12 inches of horizontal distance for every 1 inch of vertical rise..

C1-f. If the slope of part of the accessible route is more than 1:20, does it meet the following requirements for an accessible ramp?

Yes

No

f-i. Is the running slope no greater than 1:12? [ADA Standards § 4.8.2]

Yes

No

Note: For existing ramps, the slope may be 1:10 for a 6-inch rise and 1:8 for a 3-inch rise in special circumstances (see ADA Standards § 4.1.6(3)).

f-ii. Are handrails installed on both sides of each ramp segment? [ADA Standards § 4.8.5]

Yes

No

f-iii. Is the ramp width, measured between the handrails, at least 36 inches (44 inches wide if part of a required means of egress)? [ADA Standards § 4.8.3]

Yes

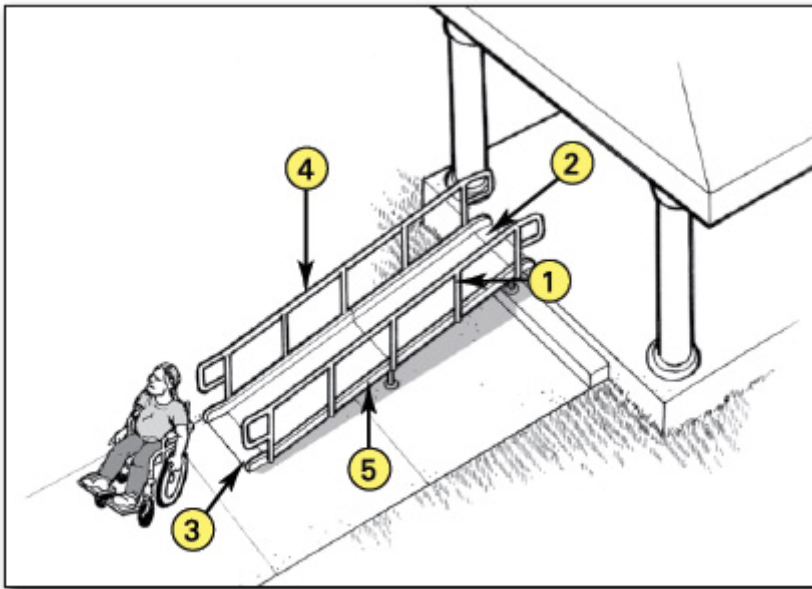
No

f-iv. Does the ramp have a level landing at the top and bottom of each ramp section that is at least 60 inches long (the bottom of each ramp shall have no less than 72 inches of straight and level clearance)? [ADA Standards § 4.8.4]

Yes

No

Note: The level landing may be part of the sidewalk or walking surface.



**Accessible ramp features**

**Notes:**

1. At least 36 inches between handrails (FBC – 44 inches if part of a required means of egress)

2. Top landing part of walk

3. Bottom landing part of walk (FBC – 72 inches straight and level area required)

4. Handrail height 34 to 38 inches

5. Edge protection.

f-v. If a ramp is more than 30 feet long, is a level landing at least 60 inches long provided at every 30 feet of horizontal length? [ADA Standards § 4.8.4]

Yes

No

*Note: if the running slope is less than 1:16 but more than 1:20, each ramp segment may be up to 40 feet long followed by a level landing.*

f-vi. Is there a level landing, at least 60 inches x 60 inches, when a ramp changes direction? [ADA Standards § 4.8.4]

Yes

No

f-vii. Are the handrails mounted 34 to 38 inches above the ramp surface? [ADA Standards § 4.8.5]

Yes

No

f-viii. If the ramp or landing has a vertical drop-off on either side, is edge protection provided? [ADA Standards § 4.8.7]

Yes

No

### **Temporary Solutions For Emergency Sheltering - Ramps**

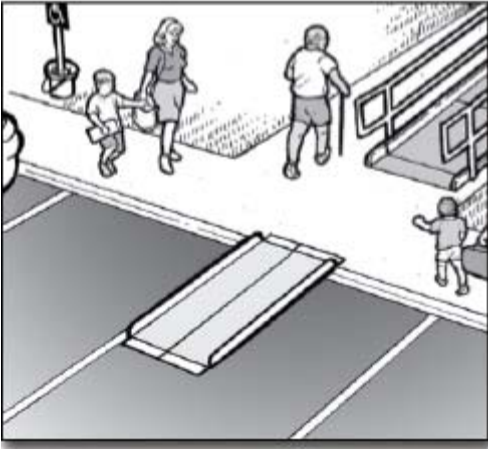
**Problem:** The sidewalk connecting parking to the shelter entrance is too steep to be accessible.

**Suggestion:** Check to see if there is another accessible route to the accessible entrance. Sometimes there is a less direct route that is accessible. During an evacuation it will be helpful to put up signs or to have volunteers stationed at the accessible parking spaces to direct people along this less direct, but nonetheless accessible, route.

**Problem:** The accessible route crosses a curb but no curb ramp is provided.

**Suggestion:** Install a portable ramp with a slope no steeper than 1:12 with edge protection. Store the portable ramp on site so it can be easily accessed in an emergency.

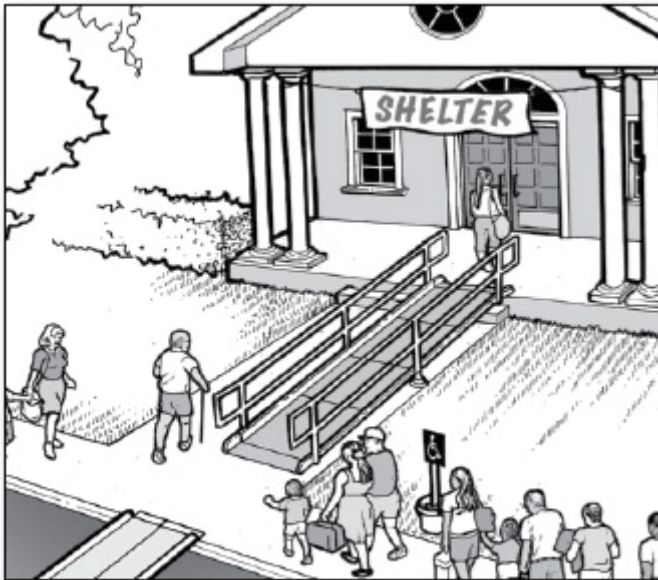




**A portable ramp with edge protection is installed over a curb to provide an accessible route.**

**Problem:** There are two steps where the sidewalk connects to the accessible entrance.

**Suggestion:** Install a portable ramp with a slope no steeper than 1:12 with edge protection and handrails on both sides of the ramp. Store the portable ramp and components on site so everything can be easily accessed in an emergency.

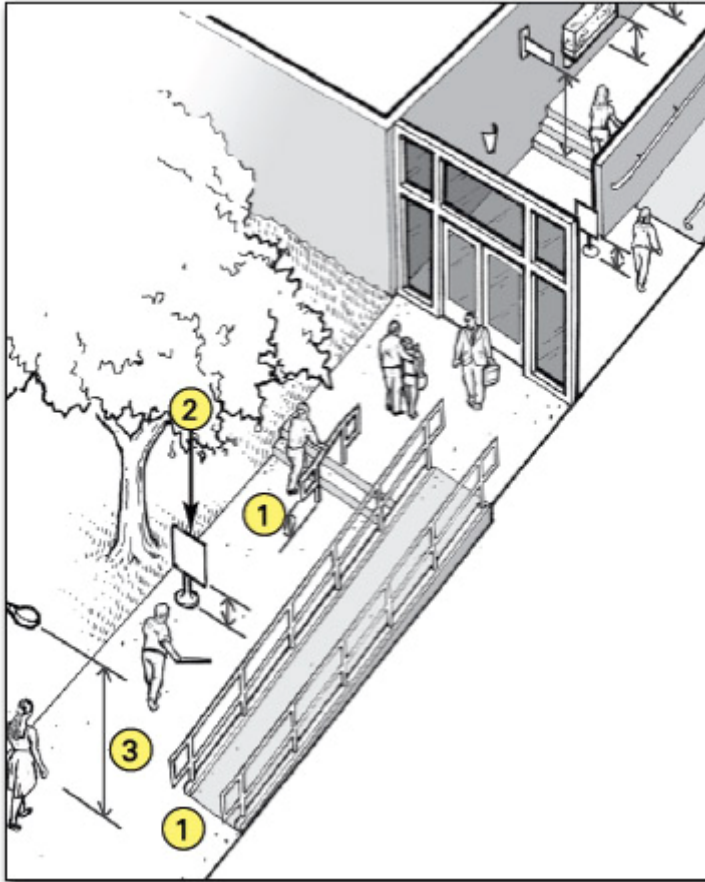


**A portable ramp with edge protection and handrails is installed over two steps to provide an accessible route.**

## **2. Typical Issues for Individuals Who Are Blind or Have Low Vision**

Objects that are wall mounted, that project into a pedestrian route from the side, or that are overhead can be hazards to people who are blind or who have low vision. These objects must be positioned so people will either detect the objects before they run into them or safely pass under them. Examples may include handrail extensions on stairs and

ramps, post- or wall-mounted signs, drinking fountains, and low hanging tree limbs. Pedestrian routes open to people during the time that the facility is being used as an emergency shelter, such as sidewalks, courtyards, and plazas, must be free of overhanging objects that are less than 80 inches above the route. Objects more than 27 inches and less than 80 inches above the route and that protrude from the side more than 4 inches are also a hazard. Since people can walk on any sidewalk, not just the accessible routes, all exterior pedestrian routes serving or leading to the shelter areas must be checked. The following questions apply to sidewalks and walkways leading to the emergency shelter.



**Common objects along pedestrian routes to a shelter that can be hazards to people who are blind or have low vision.**

**Notes:**

1. The bottom of the handrail extensions turn down to 27 inches or less above the route so a person who is blind or has low vision can detect the hazard before running into it.
2. Signs or other objects in the pedestrian route can be a hazard if the bottom is more than 27 inches but less than 80 inches above the route.
3. Objects that overhang the pedestrian route must be at least 80 inches above the route.

C2-1. Are all sidewalks and walkways to the shelter free of any objects (e.g., wall-mounted boxes, signs, handrail extensions) with bottom edges that are between 27 inches and 80 inches above the walkway and that extend more than 4 inches into the sidewalk or walkway? [ADA Standards §§ 4.4, 4.2.1(3), 4.1.3(2)]

Yes

No

If No, can the object be lowered, removed, or modified or can the route be moved so that the object can be avoided?

C2-2. Are the undersides of exterior stairs enclosed or protected with a cane-detectable barrier so that people who are blind or have low vision will not hit their heads on the underside? [ADA Standards § 4.4.2]

Yes

No

If No, can a barrier or enclosure be added below the stair or can the route be relocated away from the stair?



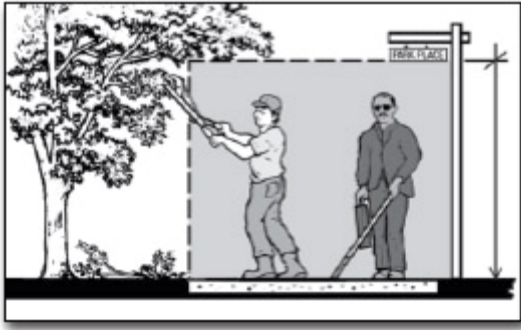
**When the underside of a stair is open, it is a hazard to people who are blind or have low vision. Enclosing the area below the stair or installing a cane-detectable barrier helps this woman to stop before hitting her head.**

C2-3. Are all objects that hang over the pedestrian routes at least 80 inches above the route? [ADA Standards § 4.4.2]

Yes

No

If No, can the objects be removed or relocated, or can a cane-detectable object be added below that is at no higher than 27 inches?



**Overhead sign and tree branches are least 80 inches above the walk.**

### **Temporary Solutions For Emergency Sheltering - Protruding Object Hazards**

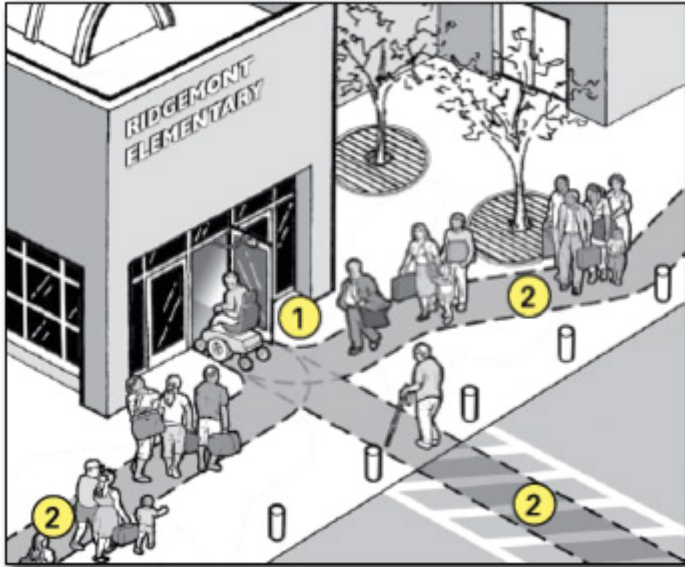
**Problem:** Objects protrude too far from the side into the route causing a hazard for people who are blind or who have low vision.

**Suggestion:** When people who are blind or who have low vision use a cane to detect hazards, objects located at 27 inches or lower are detectable. When an object is located higher than 27 inches above the ground it is a hazard if the object protrudes more than 4 inches into the circulation path. To make a protruding object cane-detectable:

- Place an object below, or on either side of, the protruding object that is not higher than 27 inches above the ground.
- If the protruding object can be moved, lower the object so that its bottom is not more than 27 inches above the ground.
- Prune or alter the protruding object so it does not protrude above the route.

## **D. Entering the Emergency Shelter**

### **Building Entrance**



**Notes:**

1. Accessible entrance to the shelter.
2. Accessible route connecting accessible parking and drop-off area (if provided) to the accessible entrance.

A shelter must have at least one accessible entrance that is on an accessible route. An accessible entrance must provide at least one accessible door with maneuvering space, accessible hardware, and enough clear width to allow people who use crutches, a cane, walker, scooter, or wheelchair to use it.

If the accessible entrance is not the main entrance to the facility that is being used as a shelter, signs must be located at inaccessible entrances to direct evacuees and volunteers to the accessible entrance. The accessible entrance must be unlocked when other shelter entrances are unlocked.



**Examples of signs for inaccessible shelter entrances directing people to the accessible entrance.**

D1. Is there at least one accessible entrance connected to an accessible route? [ADA Standards § 4.1.3(1)]

Yes

No

Notes: If this entrance is not the main entrance, it needs to be kept unlocked when other shelter entrances are unlocked.

If there are inaccessible entrances serving the shelter, signs will be needed at inaccessible entrance(s) to direct evacuees to the nearest accessible entrance.

D2. Does at least one door or one side of a double leaf-door provide at least 32 inches clear passage width when the door is open 90 degrees? [ADA Standards § 4.13.5]

Yes

No

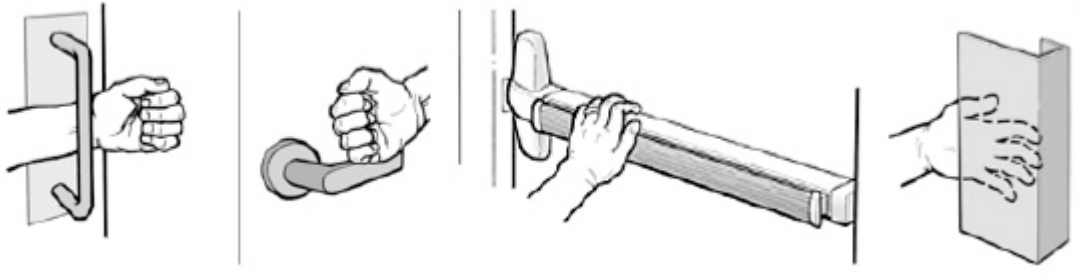
If No, does another entrance have an accessible door or can both doors be propped open during the evacuation? Other possible solutions are to enlarge the door opening, use a swing clear hinge, or, if a double-leaf door, replace with uneven width doors.

D3. Is the hardware (e.g., lever, pull, and panic bar) usable with one hand without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.13.9]

Yes

No

If No, leave door propped open, add new accessible hardware, or adapt/replace hardware.



**Examples of handles and door hardware that can be used without tight grasping, pinching, or twisting.**

D4. On the latch, pull side of the door, is there at least 18 inches clearance provided if the door is not automatic or power-operated? [ADA Standards § 4.13.6, Fig. 25]

Yes

No

If No, leave the door propped open or find another accessible entrance.

D5. If there is a raised threshold, is it no higher than 3/4 inch at the door and beveled on both sides? [ADA Standards §§ 4.1.6(3)(d)(ii), 4.13.8]

Yes

No

If No, replace threshold with one with beveled sides or add a sloped insert.

D6. If an entry has a vestibule, is there a 30-inch by 48-inch clear floor space inside the vestibule where a wheelchair or scooter user can be outside the swing of a hinged door? [ADA Standards § 4.13.7]

Yes

No

If No, leave the inner door permanently open, remove inner door, or modify the vestibule.

D7. Does the amount of effort to open an exterior hinged door exceed 8.5 lbf.? [FBC 4.13.11(2)(a)]

Yes

No

If No, adjust door closing mechanism or provide assistant to open door.

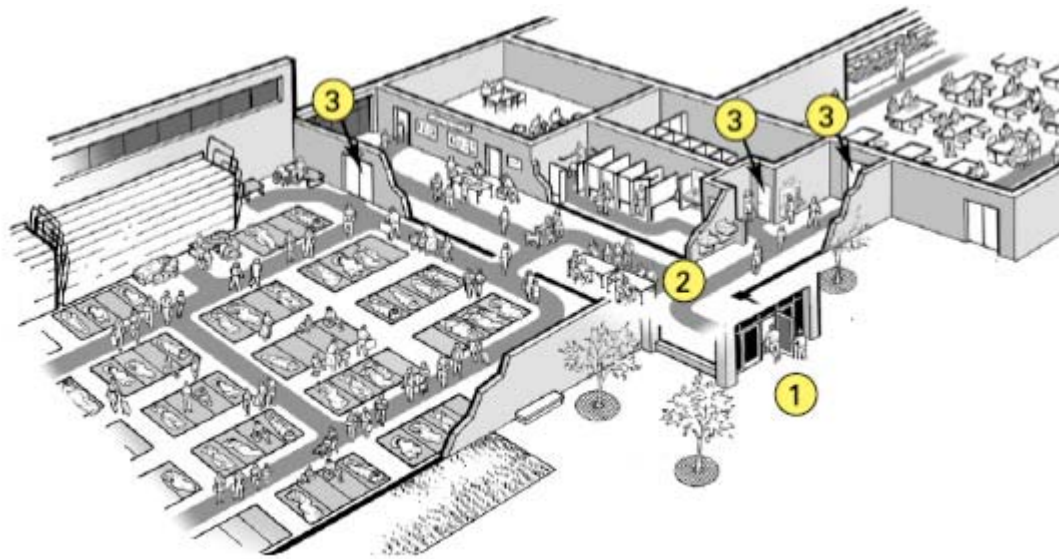
## E. Hallways and Corridors

### 1. Typical Issues for Individuals Who Use Wheelchairs, Scooters, or Other Mobility Devices

The interior accessible route connects the accessible entrance with the various service and activity areas within the shelter. Typically made up of hallways, corridors, and interior rooms and spaces, the accessible route is essential for people who have difficulty walking or who use wheelchairs or other mobility aids to get to all of the service and activity areas of the shelter.

An accessible route is at least 36 inches wide (FBC – 44 inches wide if a required means of egress) and may narrow briefly to 32 inches wide where the route passes through doors or next to furniture and building elements. High thresholds, abrupt level changes, steps, or steep running or cross slopes cannot be part of an accessible route. Where ramps are used, they cannot be steeper than 1:12. Ramps with a vertical rise of more than 6 inches must have handrails on both sides. Ramps must also have edge protection to stop wheelchairs from falling off the sides, and level landings at the top and bottom of each segment and where a ramp changes direction.

Where an accessible route is different from the route used by most evacuees, signs will be needed at key decision points to direct individuals with disabilities to the various activity areas.



**Interior of a shelter showing the accessible route from the accessible entrance to all service and activity areas.**

#### Notes:

1. Accessible Entrance



2. Accessible Route connects the accessible entrance with shelter service and activity area
3. Accessible door to service and activity areas

E1-a. Is there an accessible route, at least 36 inches wide (FBC – 44 inches wide if a required means of egress), that connects the accessible entrance to all shelter areas (it may narrow to 32 inches wide for up to 2 feet in length)? [ADA Standards § 4.3.2(3)]

Yes

No

E1-b. Is the accessible route free of steps and abrupt level changes over 1/2 inch?

Yes

No

Note: level changes between 1/4 inch and 1/2 inch should be beveled). [ADA Standards §§ 4.1.3(1), 4.3.8]

E1-c. Does the accessible route from the accessible entrance to all activity areas change levels using a ramp, lift or elevator? [ADA Standards §§ 4.1.3(1), 4.3.8]

Yes

No

If No, go to question E1-g.

c-i. If Yes, is a ramp or sloped hallway provided?

Yes

No

If Yes, go to question E1-d.

c-ii. Is an elevator or lift provided?

Yes

No

If Yes, and the elevator or lift is part of the accessible route to a shelter area, is back-up electrical power available to operate the elevator or lift for the duration of shelter operation should the normal electrical service be disrupted?

If Yes and an elevator is provided, see question E1-e.

If Yes and a lift is provided, see question E1-f.

If No, then either provide back-up electrical power to operate the lift or elevator during the power outage or locate shelter services exclusively on accessible levels that may be reached by people with a mobility disability without using an elevator or lift.

E1-d. Where the slope of the accessible route is greater than 1:20, does this area meet the following requirements for an accessible ramp?

Yes

No

d-i. Is the slope no greater than 1:12? [ADA Standards § 4.8.2]

Yes

No

Note: For existing ramps, the slope may be 1:10 for a 6-inch rise and 1:8 for a 3-inch rise in special circumstances]. [ADA Standards § 4.1.6(3)]

d-ii. Are handrails installed on both sides of each ramp segment? [ADA Standards § 4.8.5]

Yes

No

d-iii. Is the ramp width, measured between handrails, at least 36 inches (FBC – 44 inches if a required means of egress)? [ADA Standards § 4.8.3]

Yes

No

d-iv. Are the handrails mounted 34 to 38 inches above the ramp surface? [ADA Standards § 4.8.5]

Yes

No

d-v. If a ramp is longer than 30 feet, is a level landing at least 60 inches long provided every 30 feet? [ADA Standards § 4.8.4]

Yes

No

d-vi. Does the ramp have a level landing that is at least 60 inches long at the top and 72 inches of straight and level clearance at the bottom (FBC – 11.4.8.4(2)) of each ramp section or where the ramp changes direction? [ADA Standards § 4.8.4]

Yes

No

d-vii. If the ramp or landing has a vertical drop-off on either side of the ramp, is edge protection provided? [ADA Standards § 4.8.7]

Yes

No

E1-e. Is an elevator provided to each of the levels on which each sheltering service or activity area is located?

Yes

No

e-i. Are the centerlines of the call buttons mounted 42 inches above the floor? [ADA Standards § 4.10.3]

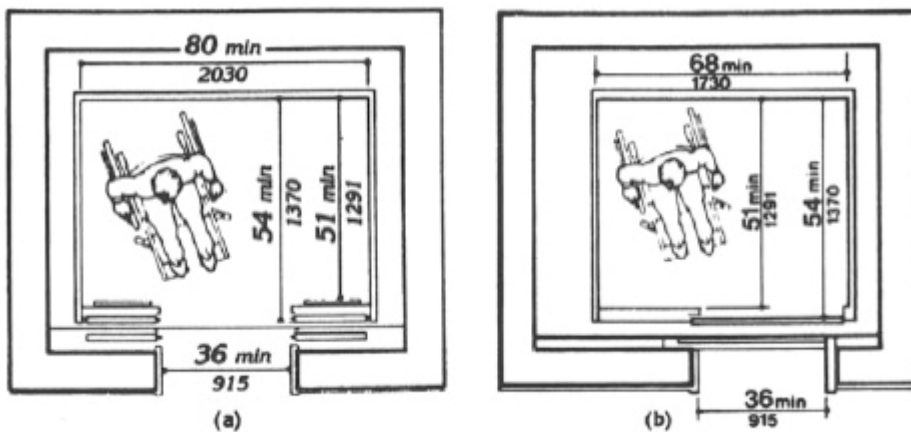
Yes

No

e-ii. Does the floor area of the elevator car have space to enter, reach the controls, and exit? [ADA Standards § 4.10.9, Fig. 22]

Yes

No



**Fig. 22**  
**Minimum Dimensions of Elevator Cars**

*Note: See Figure 22 for acceptable floor and opening dimensions. Floor dimensions of at least 48 inches by 48 inches may be allowed in existing facilities built before the ADA went into effect.*

e-iii. Can the elevator be called and operated automatically without using a special key or having to turn on the elevator from a remote location? [ADA Standards § 4.10.2]

Yes

No

e-iv. Are the highest floor control buttons mounted no more than 54 inches above the floor for a side reach or 48 inches for forward reach? [ADA Standards § 4.10.12 (3)]

Yes

No

e-v. Are raised letters and Braille characters used to identify each floor button and each control? [ADA Standards § 4.10.12]

Yes

No

e-vi. Are signs mounted on both sides of the elevator hoist way door opening (for each elevator and at each floor) that designate the floor with 2-inch minimum-height raised letters and Braille characters centered at 60 inches above the floor? [ADA Standards § 4.10.5]

Yes

No

e-vii. Is the elevator equipped with audible tones or bells or verbal annunciators that announce each floor as it is passed? [ADA Standards § 4.10.13]

Yes

No

E1-f. If a wheelchair lift is provided, does it meet the following?

Yes

No

f-i. Is the lift operational at the time of the survey? [ADA Standards § 4.11.3]

Yes

No

f-ii. Is the change in level from the floor to the lift surface ramped or beveled? [ADA Standards §§ 4.11.2, 4.5.2]

Yes

No

f-iii. Is there at least a 30-inch by 48-inch clear floor space on the wheelchair lift? [ADA Standards §§ 4.11.2, 4.2.4]

Yes

No

f-iv. Does the lift allow a person using a mobility device unassisted entry, operation (is key available, if required), and exit?

Yes

No

f-v. Are the controls and operating mechanisms mounted no more than 54 inches above the floor for a side reach or 48 inches for a forward reach? [ADA Standards §§ 4.11.2, 4.27.3]

Yes

No

f-vi. Are the controls and operating mechanisms usable with one hand without tight grasping, pinching, or twisting? [ADA Standards §§ 4.11.2, 4.27.4]

Yes

No

E1-g. At each location on the way to each shelter activity area where the accessible route passes through a door, does at least one door meet the following requirements?

Yes

No

g-i. Is the clear width for the door opening at least 32 inches measured when the door is open 90 degrees? [ADA Standards §§ 4.1.3(7), 4.13.5]

Yes

No

g-ii. Is the door hardware (e.g., lever, pull, push, panic bar) usable with one hand, without tight grasping, pinching, or twisting of the wrist, to allow people who may not be able to easily use one or both hands to fully operate the hardware? [ADA Standards § 4.13.9]

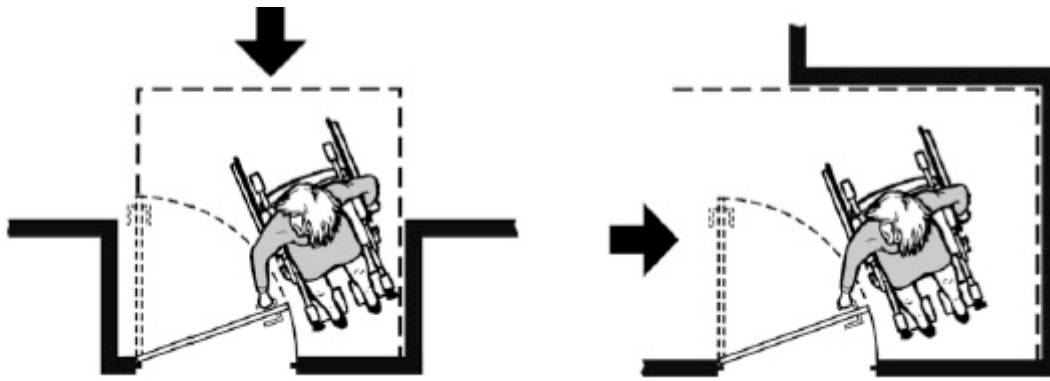
Yes

No

g-iii. Is there clear maneuvering floor space in front of each accessible door (see ADA Standards § Fig. 25) and, on the pull side, is there at least 18 inches clear floor space beyond the latch side of the door (see space configurations in Figure 25)? [ADA Standards § 4.13.6]

Yes

No



**A clear floor space on the latch side of the door (pull side) allows a person using a wheelchair or scooter to pull the door open and then enter. The size of the clear floor space varies depending on the direction of approach (shown by the arrows) and the door swing.**

g-iv. Is no more than 5 pounds force needed to push or pull open the door? [ADA Standards § 4.13.11 (2)(b)]

Yes

No

Note: Fire doors are still considered to be accessible if they have the minimum opening force allowable by the appropriate administrative authority.

g-v. If the answers to questions g-ii thru g-iv are No, can the door be propped open?

Yes

No

If an activity area is not on an accessible route and cannot be made accessible, find another area that is on an accessible route where that activity may be provided.

## **2. Typical Issues for People Who are Blind or Have Low Vision**

Individuals who are blind or have low vision may walk along any route or through any shelter activity area, not just the accessible routes. That means any area where people using the shelter can walk, including hallways, corridors, eating areas, and sleeping areas, must be free of objects that cannot be detected by a person who is blind or has low vision. Objects that are wall mounted, that project into a pedestrian route from the side, or that are overhead must be located so that individuals who are blind or have low vision will either detect the objects before they run into them or safely pass under them. These routes must be free of overhanging objects that are less than 80 inches above the floor and side objects that protrude into the route more than 4 inches when the bottom of the object is more than 27 inches above the floor. Items to watch for include wall-mounted fire extinguishers and wall-mounted display cases when the bottom is more than 27 inches above the floor, wall sconces and light fixtures that protrude more than 4 inches off the

wall, and open staircases, exit signs, overhead signs, banners, and arched doorways that are lower than 80 inches above the floor.



**Overhead and wall-mounted objects that may be hazards along a pedestrian route**

**Notes:**

1. Wall-mounted drinking fountains are a hazard when the front projects more than 4 inches beyond the wall and the bottom is more than 27 inches above the floor.
2. Wall-mounted objects cannot project more than 4 inches beyond the wall if the bottom is not in the cane-detectable area below 27 inches off the floor.
3. Overhead objects must be at least 80 inches off the floor.

The following questions apply to pedestrian routes serving or leading to the shelter activity and common use areas.

E2-a. Are pedestrian routes leading to or serving each service or activity area of the shelter free of objects that protrude from the side more than 4 inches into the route with the bottom of the object more than 27 inches above the floor? [ADA Standards § 4.4.1]

Yes

No

Note: These objects may be wall mounted or free standing. Items to check include wall-mounted fire extinguishers, light fixtures, coat hooks, shelves, drinking fountains, and display cases.

E2-b. Are pedestrian routes leading to or serving each of the service or activity areas free of overhead objects with the bottom edge lower than 80 inches above the floor? [ADA Standards § 4.4.2]

Yes

No

E2-c. Are any interior stairs along these routes configured with a cane-detectable warning or a barrier that prevents travel into the area with less than an 80-inch high head clearance so that people who are blind or who have low vision cannot hit their heads on the underside or stair frame? [ADA Standards § 4.4.2]

Yes

No

If No, list the objects that are a hazard and their location. Remove or relocate the object or place a detectable object on the floor below each object to remove the hazard.



**When the underside of a stair is open, it is a hazard to people who are blind or have low vision. Enclosing the area below the stair or installing a cane detectable barrier helps the person to avoid the area.**

## **F. Check-In Areas**

A shelter usually has one or more check-in areas located near the entrance to the shelter. When check-in areas are provided, then at least one accessible check-in location should



be provided. The accessible check-in area should be at the accessible entrance or signs should give directions to the accessible check-in area.

If a permanent reception counter is used for check in, make sure to provide a writing surface at an accessible height for people who use a wheelchair, scooter, or other mobility device. This may be a part of the reception counter that is no higher than 36 inches above the floor, a folding shelf or an adjacent table, or a clip board.



**An accessible check-in location using a folding table with a height that people who use wheelchairs can easily reach.**

F1. Is there an accessible route that connects the accessible entrance to areas that are likely to be used to register people as they arrive at the shelter? [ADA Standards § 4.3]

Yes

No

F2. If there is a built-in reception or other type of counter, does it have a section that is at least three feet long that is no higher than 36 inches above the floor or is there a nearby surface that is not higher than 36 inches above the floor? [ADA Standards § 7.2]

Yes

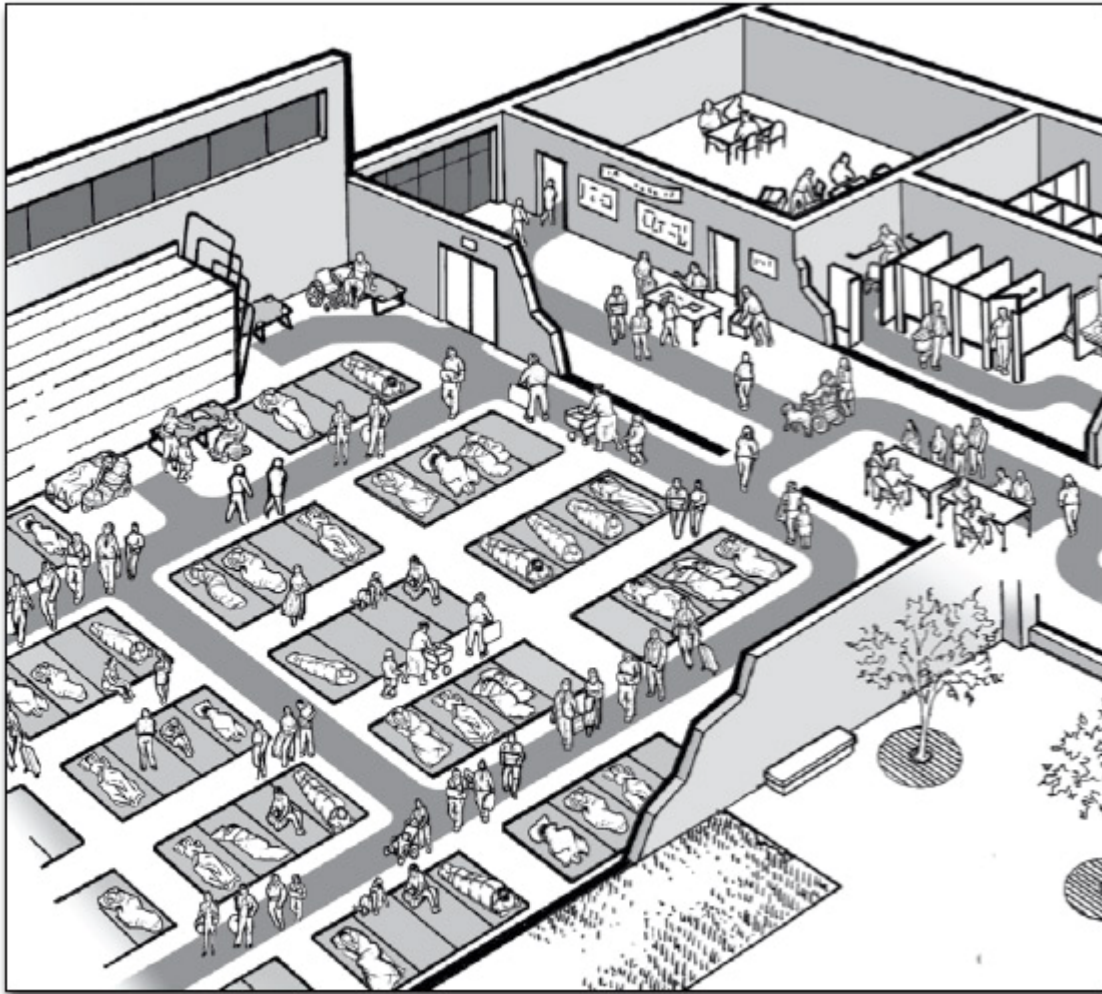
No

## **Living at the Emergency Shelter**

### **G. Sleeping Areas**

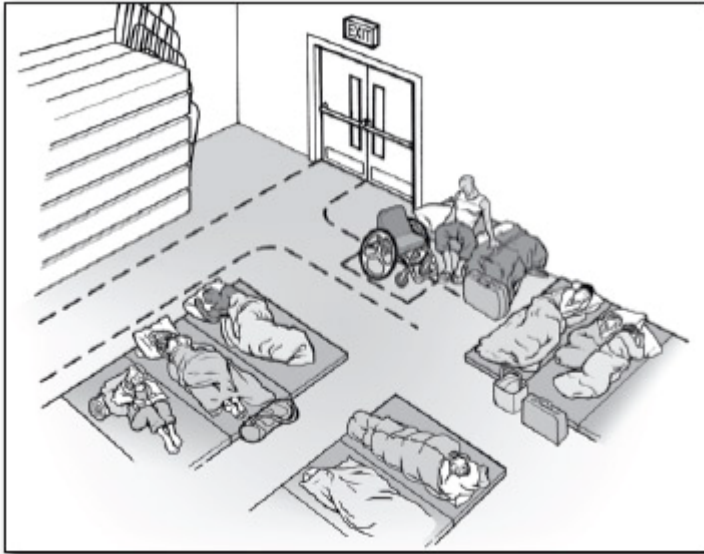
Each accessible sleeping area needs to be on an accessible route connecting it to other activity areas in the shelter, including toilet rooms and bathing areas. An accessible route with adequate circulation and maneuvering space provides access in the sleeping areas

for people who use wheelchairs or scooters and this route serves each accessible bed or cot.



**Interior of one section of a shelter's sleeping area. The shaded pathway indicates the accessible route, which provides access to accessible beds, cots, and other activity areas in the space plus the toilet rooms and other activity areas in the shelter.**

Accessible cots have a sleeping surface at approximately the same height above the floor as the seat of a wheelchair (17 to 19 inches above the floor). When placed in several sections of the sleeping area, individuals who use a wheelchair, scooter, or other mobility device will be able to sleep near their family or other companions. An accessible route is needed to provide access to each accessible cot and a clear space at least 36 inches wide (FBC – 44 inches wide if a required means of egress) is needed along the side of the cot to make it possible to transfer between the mobility device and the cot. A preferred location for accessible cots is to have one side against a wall. This helps to stabilize the cot and the wall can act as a backrest when the person sits up on the cot.



**An accessible cot positioned against a wall. Dashed lines indicate the accessible route and clear floor space next to the cot.**

G1. Is there an accessible route, at least 36 inches wide (FBC – 44 inches wide if a required means of egress), that connects each sleeping area with other shelter activity areas?

Yes

No

Note: it may narrow to 32 inches wide for up to 2 feet in length. [ADA Standards § 4.3.2(3)]

G2. Is the accessible route free of steps and abrupt level changes over 1/2 inch?

Yes

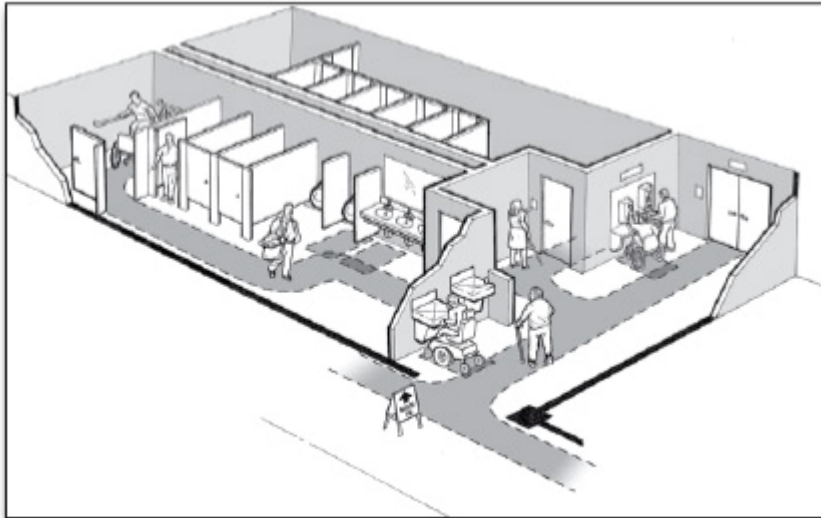
No

Note: level changes between 1/4 inch and 1/2 inch should be beveled). [ADA Standards §§ 4.1.3(1), 4.3.8]

Note: Although the facility survey cannot check the accessibility of the cots because they will not be installed until the shelter is in use, planning for setting up the sleeping area and for arranging the cots and mats should include providing space for an accessible route and clear floor space at each accessible cot. Cots used by people who are blind or who have low vision should be in an easily locatable area.

## H. Restrooms and Showers

At least one set of toilet rooms serving the shelter must be accessible to individuals who use a wheelchair, scooter, or other mobility device. In large shelters where more than one set of toilet rooms is needed to serve the occupants, it may be necessary to provide additional accessible toilet facilities or to establish policies to assure that individuals with disabilities have access to the accessible facilities.



**Interior of an accessible toilet room showing accessible route, clear floor space at accessible fixtures, and the wide accessible toilet stall.**

H1. If a sign is provided at the toilet room entrance (e.g. Men, Women, Boys, Girls, etc.), is a sign with raised characters and Braille mounted on the wall adjacent to the latch? [ADA Standards § 4.30.6]

Yes

No

If No, install a sign with raised characters and Braille on the wall adjacent to the latch side of the door and centered 60 inches above the floor and leave the existing sign in place on the door if removing it will damage the door.

Note: an additional sign may be mounted on the toilet room door but this cannot be considered to be the accessible sign which must be mounted on the wall adjacent to the latch side of the door.

H2. Does the door to the toilet room provide at least 32 inches clear passage width when the door is open 90 degrees? [ADA Standards § 4.13.5]

Yes

No

H3. Is the hardware (e.g., lever, pull, panic bar) usable with one hand without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.13.9]

Yes

No

If No, can the door be propped open without compromising privacy, or can the hardware be modified by adding new accessible hardware, or adapting or replacing hardware?

H4. On the pull side of the door, is there at least 18 inches clearance provided on the latch side if the door is not automatic or power-operated? [ADA Standards § 4.13.6, Fig. 25]

Yes

No

H5. If there is a raised threshold, is it no higher than 3/4 inch at the door and beveled on both sides? [ADA Standards §§ 4.1.6(3)(d)(ii), 4.13.8]

Yes

No

NA

If No, replace threshold with one with beveled sides or add a sloped insert.

H6. If the entry has a vestibule, is there a 30-inch by 48-inch clear floor space inside the vestibule where a wheelchair or scooter user can be outside the door swing? [ADA Standards § 4.13.7]

Yes

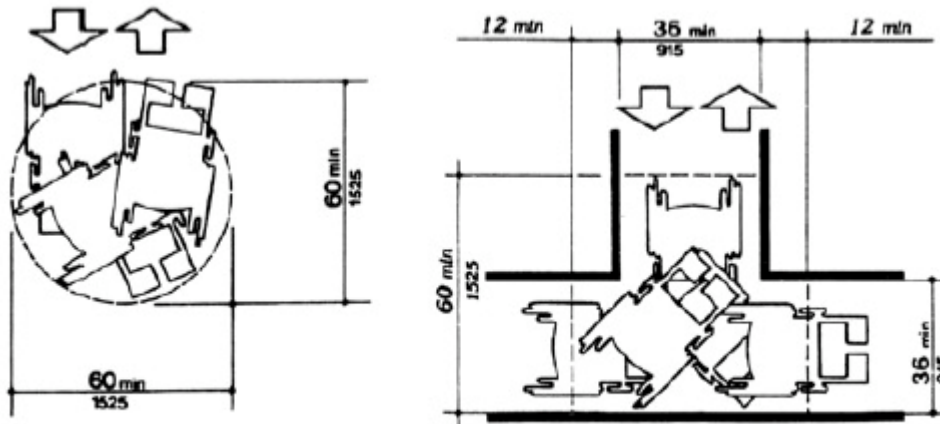
No

If No, possible solutions include leaving the inner door open or removing the outer door.

H7. Inside the toilet room, is there an area where a person who uses a wheelchair or other mobility device can turn around - either at least 60-inch diameter circle or a "T"-shaped turn area as shown in the figures below? [ADA Standards §§ 4.22.3; 4.2.3]

Yes

No



**Minimum spaces for turning**

**Minimum spaces for turning**

H8. If lavatories are provided, does at least one have at least a 29 inch high clearance under the front apron with the top of the rim no more than 34 inches above the floor? [ADA Standards § 4.19.2]

Yes

No

H9. Are the drain and hot water pipes for this lavatory insulated or otherwise configured to protect against contact? [ADA Standards § 4.19.4]

Yes

No

H10. Does this lavatory have controls that operate easily with one hand, without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.19.5]

Yes

No

H11. If mirrors are provided, is the bottom of the reflecting surface for the mirror at this lavatory no higher than 40 inches above the floor or is a full length mirror provided? [ADA Standards § 4.19.6]

Yes

No

H12. For at least one of each type of dispenser, receptacle, or equipment, is there clear floor space at least 30 inches wide x 48 inches long adjacent to the control or dispenser (positioned either parallel to the control or dispenser or in front of it)? [ADA Standards §§ 4.23.7; 4.27.2; 4.2.5 and Fig 5; 4.2.6 and Fig 6]

Yes

No

H13. Is the operating control (switch, lever, button, or pull) of at least one of each type of dispenser or built-in equipment no higher than 54 inches above the floor (if there is clear floor space for a parallel approach) or 48 inches (if there is clear floor space for a front approach)? [ADA Standards §§ 4.23.7; 4.27.3; 4.2.5 and Fig 5; 4.2.6 and Fig 6]

Yes

No

H14. Are all built-in dispensers, receptacles, or equipment mounted so the front does not extend more than 4 inches from the wall if the bottom edge is between 27 inches and 80 inches above the floor? [ADA Standards §§ 4.23.7; 4.27; 4.4.1; Fig. 8]

Yes

No

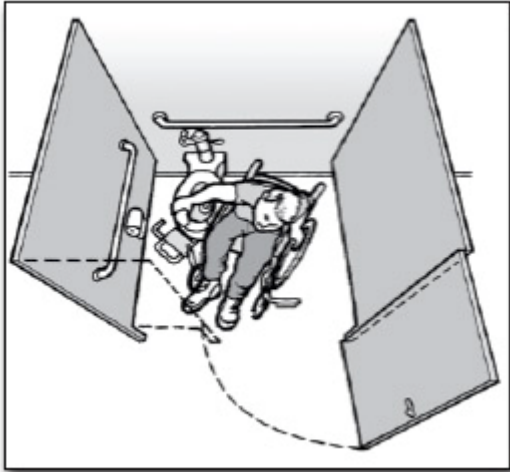
### **Toilet Stalls**

H15. Is at least one wide toilet stall provided with an out swinging door, side and rear grab bars, and clear space next to the toilet? [ADA Standards § 4.17]

Yes

No

If No, check to see if another toilet room provides a wide accessible toilet stall, note its location for shelter planners, and answer all toilet room questions with respect to that toilet room.



**Overhead view of an individual using a wheelchair positioned beside a toilet in a wide accessible stall.**

H16. Is the toilet stall at least 60 inches wide and 56 inches deep (wall mounted toilet) or 59 inches deep (floor mounted toilet)? [ADA Standards § 4.17.3]

Yes

No

If No, note the width and depth of the stall. \_\_\_\_\_

H17. Is at least 9 inches of toe clearance provided under the front wall and at least one side wall of the toilet stall? [ADA Standards § 4.17.4]

Yes

No

H18. Is the centerline of the toilet 18 inches from the adjacent side wall? [ADA Standards § 4.16.2; 4.17.3]



Yes

No

H19. Is the top of the toilet seat 17 inches to 19 inches above the floor? [ADA Standards § 4.16.3]

Yes

No

H20. Is the flush valve located on the wide side adjacent to the lavatory or is an automatic flush valve provided? [ADA Standards § 4.16.5]

Yes

No

H21. Is a horizontal grab bar at least 40 inches long securely mounted on the adjacent side wall 33 to 36 inches above the floor with one end no more than 12 inches from the back wall 33 to 36 inches above the floor? [ADA Standards § 4.16.4; 4.17.6]

Yes

No

H22. Is a second horizontal grab bar at least 36 inches long securely mounted on the back wall with one end no more than 6 inches from the side wall 33 to 36 inches above the floor? [ADA Standards § 4.16.4; 4.17.6]

Yes

No

H23. Is the door to the toilet stall located diagonally opposite, not directly in front of, the toilet or on the opposite side wall from the wall with the long grab bar? [ADA Standards § 4.17.3]

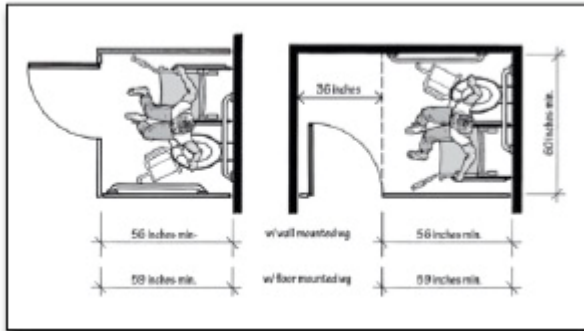
Yes

No

H24. Unless the wide stall is located at the end of a row of toilet stalls, does the door to this wider stall open out? [ADA Standards § 4.17.3]

Yes

No



**Plan views showing minimum sizes of wide accessible toilet stall**

H25. Is the clear width of the door at least 32 inches (measured between the face of the door and the edge of the opening) when the door is open 90 degrees? [ADA Standards § 4.13.5]

Yes

No

H26. If there are 6 or more stalls in the restroom, is one of those stalls (in addition to the wider stall noted above) exactly 36 inches wide with an out swinging stall door that provides at least 32 inches of clear width? [ADA Standards § 4.22.4]

Yes

No

H27. Does this 36-inch wide stall have horizontal grab bars on both of the side partitions that are at least 36 inches long and 33 to 36 inches above the floor? [ADA Standards § 4.22.4]

Yes

No

H28. Is the surface of the toilet seat in this 36-inch-wide stall 17 to 19 inches above the floor? [ADA Standards §§ 4.16.3; 4.22.4]

Yes

No

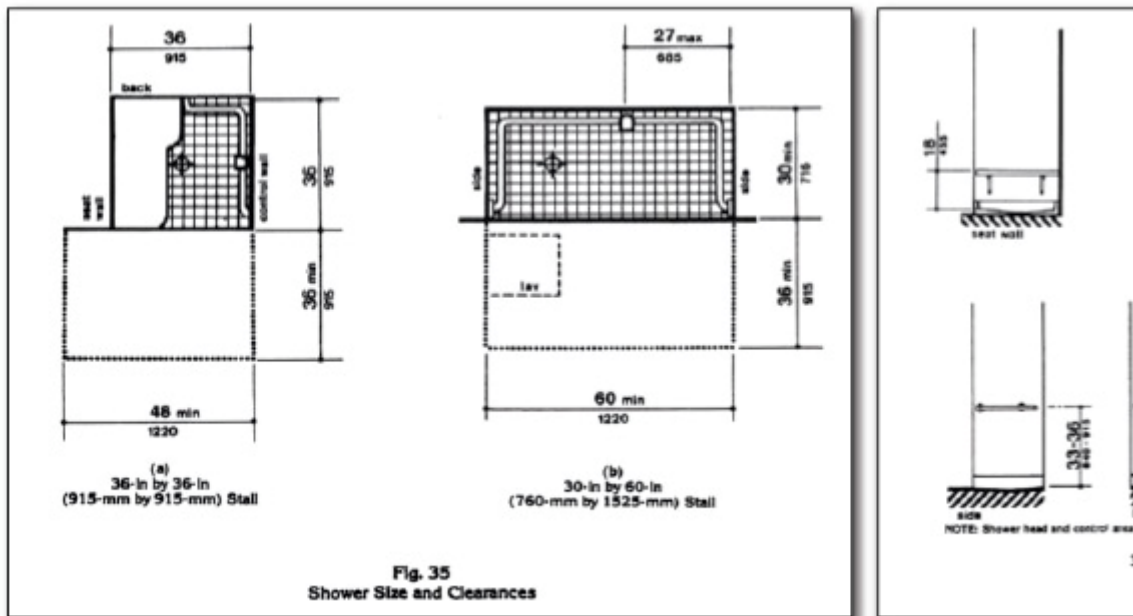
H29. If a coat hook is provided is it mounted no higher than 54 inches above the floor for a side approach or 48 inches above the floor for a front approach? [ADA Standards § 4.25.3]

Yes

No

Note: For many emergency shelters, evacuees are not expected to use shower or bathing facilities due to the short period they may stay at the shelter. If planning for the shelter operation includes offering shower or bathing facilities, then those facilities should be on an accessible route and checked for accessibility. For information on the requirements for accessible showers or bathtubs see the ADA Standards for Accessible Design which is available online at [www.ada.gov](http://www.ada.gov).

**The following are figures illustrating some accessible shower features from the ADA Standards.**



**Accessible Shower Stall  
Minimum Size and Clearances**

**Accessible Shower Stall Grab Bars  
and Seat, Shower, and Control Area**

## I. Public Telephones

When public telephones are provided, then one or more accessible public telephones should be provided in areas serving shelter activity and service areas. Whenever accessible telephones are provided, each should be on an accessible route. In shelters it is common to provide additional telephones on tables or desks and some of these telephones should be accessible.

A text telephone (also commonly known as a TTY) is a device that allows individuals who are deaf or hard of hearing or who have a speech disability to communicate over a telephone. Having at least one TTY in any building that has at least four pay phones, provides access for people who are deaf or hard of hearing.

11. If at least one public telephone or one bank of telephones is provided, does at least one of each type of telephone (e.g., pay telephone, intercom telephone, other telephone) have the following?

Yes

No

11a. For a side approach (clear floor space at least 30 inches long x 48 inches wide), is the coin slot no higher than 54 inches above the floor? [ADA Standards § 4.31.2, Fig. 44 (a)]

Yes

No

11b. For a front approach (where clear floor space at least 30 inches wide x 48 inches long), is the coin slot no higher than 48 inches above the floor? [ADA Standards § 4.31.2, Fig. 44 (b)]

Yes

No

12. Does the phone have volume controls? [ADA Standards § 4.31.5]

Yes

No

13. If three or more telephones are located in one bank serving the shelter, are a shelf and an electrical outlet provided at one telephone for use of a portable TTY? [ADA Standards § 4.31.9 (2)]

Yes

No

14. If four or more pay telephones are provided on the site, is there a TTY (text telephone) provided at the shelter?

Yes

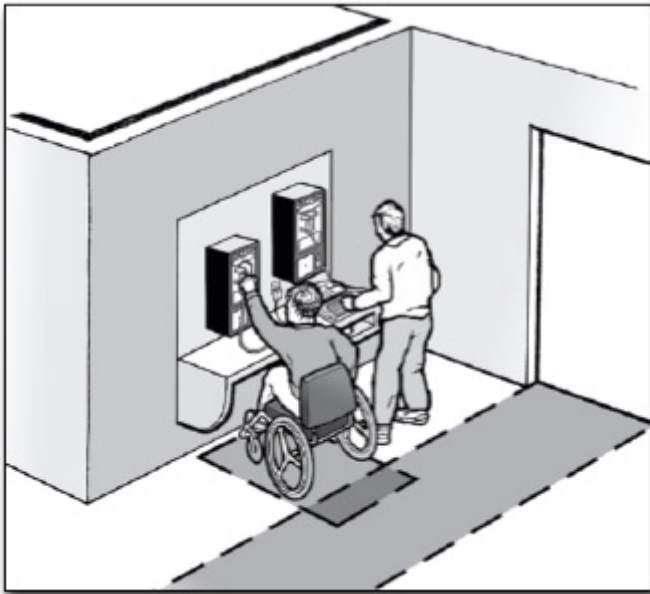
No

If yes, location\_\_\_\_\_

15. Is there a sign at each pay phone or pay phone bank for the shelter directing people to the nearest TTY? [ADA Standards § 4.30.7 (3); 4.31.9(3)]

Yes

No

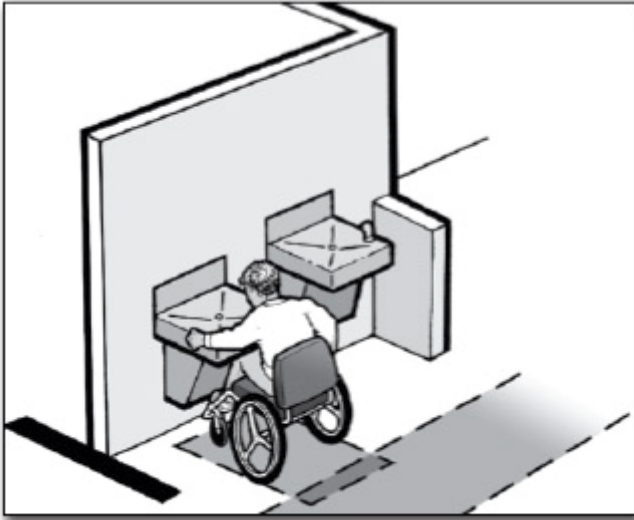


**A bank of two public telephones. The accessible telephone is on the left and the telephone on the right is equipped with a TTY.**

## **J. Drinking Fountains**

Approximately 50% of the drinking fountains serving the shelter must be accessible and located on an accessible route. Accessible drinking fountains must have enough space for a person using a wheelchair, scooter, or other mobility device to use the drinking fountain. The spout and controls of the drinking fountain must be near the front edge. The controls must be usable with one hand without tight grasping, pinching, or twisting of the wrist. The other 50% of drinking fountains serving the shelter must be configured for use by people who have difficulty bending or stooping while standing.

When an object, such as a drinking fountain, protrudes more than four inches into the circulation path, the bottom edge must be at 27 inches above the floor or lower so the drinking fountain is not a hazard to people who are blind or have low vision.



**A person who uses a wheelchair is drinking from an accessible drinking fountain. Beside the accessible drinking fountain is a standard height fountain that is usable by people who have difficulty bending or stooping. The short wall beside the standard height drinking fountain is cane-detectable to guide people who are blind or have low vision away from the standard height fountain which, otherwise, would be a protruding object hazard.**

**The following questions apply to 50% of the drinking fountains that are provided.**

J1. If the drinking fountain is a wall-mounted unit, is there clear floor space at least 30 inches wide (36 inches if it is in an alcove) x 48 inches long in front of the drinking fountain and at least 27 inches high under the fountain so that a person using a wheelchair can get close to the spout and controls? [ADA Standards § 4.15.5 (1), Figs. 4 (e) and 27 (b)]

Yes

No

J2. If the drinking fountain is a floor-mounted unit, is there clear floor space at least 30 inches long x 48 inches wide (60 inches if it is in an alcove) for a side approach to the drinking fountain so that a person using a wheelchair can get close to the spout and controls even though the fountain has no clear space under it? [ADA Standards § 4.15.5 (2), Figs. 4 (e), 27 (c) and (d)]

Yes

No

J3. Is the top of the spout no higher than 36 inches above the floor and at the front of the fountain or water cooler? [ADA Standards § 4.15.2]

Yes

No

J4. Does the water rise at least 4 inches high when no more than 5 pounds of force is applied to the controls of the fountain? [ADA Standards §§ 4.15.3 and 4.15.4]

Yes

No

J5. Are the controls on or near the front of the unit and do they operate with one hand without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.15.4]

Yes

No

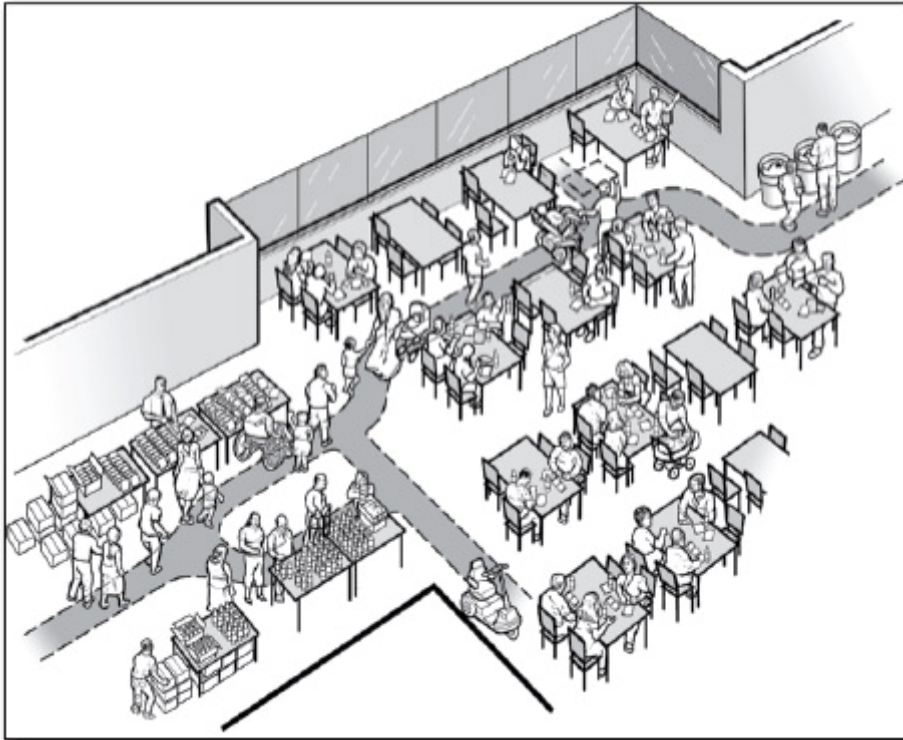
J6. Is the bottom of the apron of the fountain 27 inches above the floor so that it provides the space needed for a person who uses a wheelchair to pull up under it but is not a hazard to people who are blind or have low vision and use a cane to detect hazards? [ADA Standards §§ 4.15.5 (1) and 4.4.1]

Yes

No

## **K. Eating Areas**

An accessible route, at least 36 inches wide and without steps or steep slopes, must be provided to and throughout the food service and eating areas of the shelter. The accessible route allows people who use wheelchairs, scooters, and other mobility devices to get to all of the food and drink items in the shelter and to accessible tables and seating.



**A serving and eating area in a shelter are shown above. The shaded pathway illustrates the accessible route connecting the entrance, serving areas, accessible seats and tables, and the exit.**

K1. Is there an accessible route, at least 36 inches wide (FBC – 44 inches wide if a required means of egress), that connects each of the shelter activity areas with the food service and eating areas (it may narrow to 32 inches wide for up to 2 feet in length)? [ADA Standards § 4.3.2(3)]

Yes

No

K2. Is there an accessible route that is at least 36 inches wide (FBC – 44 inches wide if a required means of egress), that connects accessible tables with serving, condiment, and dispenser areas? [ADA Standards § 5.3; 4.3.8]

Yes

No

K3. In each eating area, if tables with fixed seats are provided, do at least 5% of each type of table with fixed seats have accessible locations with knee space at least 27 inches high, at least 19 inches deep, and at least 30 inches wide with a table top 28 to 34 inches above the floor? [ADA Standards § 5.1]



Yes

No

Note: If movable tables and chairs are used as shown, then locate at least 5% of the tables adjacent to an accessible route. Tables can be relocated as needed during operation of the shelter.

K4. If built-in food, drink, condiment, and tableware dispensers are provided, are dispensers and operating controls mounted no higher than 54 inches above the floor if clear floor space is provided for a side approach? [ADA Standards § 5.5]

Yes

No

K5. If the operating controls are set back 10 to 24 inches from the front edge of the counter or table are they no higher than 46 inches above the floor? [ADA Standards § 5.5]

Yes

No

K6. If food service lines are provided, is an accessible route provided (at least 36 inches wide) and are the tray slides no higher than 34 inches above the floor? [ADA Standards § 5.5]

Yes

No

## **Other Issues**

### **L. Availability of Electrical Power**

Emergency shelters should have a way to provide a back-up power supply when the electrical service is interrupted. The back-up power is needed to provide refrigeration of medicines, operation of supplemental oxygen and breathing devices, and for charging the batteries of power wheelchairs and scooters. Individuals whose medications (certain types of insulin, for example) require constant refrigeration need to know if a shelter provides supplemental power for refrigerators or ice-packed coolers. Individuals who use medical support systems, such as supplemental oxygen, or who require periodic breathing treatments using powered devices rely on a stable source of electricity. These individuals

must have access to electric power from a generator or other source of electricity while at a shelter.

In general, in each community or area where a shelter is provided, a facility must have one or more back-up generators or other sources of electricity so that evacuees with a disability who rely on powered devices can have access to electrical power while at the shelter.



L1. Is there a backup source of electrical power for the facility?

Yes

No

L2. Is there a refrigerator or other equipment, such as coolers with a good supply of ice, at the shelter?

Yes

No

### **M. Single-User or “Family” Toilet Room**

In many schools and large facilities where emergency shelters are often located, single-user toilet rooms may be provided for staff. In those facilities built or altered since the ADA went into effect, single-user toilet rooms should have accessible features that could be useful during shelter operation. These features include an accessible entrance and turning and maneuvering spaces. These rooms should also have been built to allow grab bars, accessible controls, and accessible hardware to be easily installed.

As part of the planning for operating an emergency shelter, facilities operators should consider using an available staff toilet room, if provided, as a single-user or “family” toilet room. When provided in addition to large accessible toilet rooms, this type of facility permits a person with a disability to receive assistance from a person of the opposite sex.

M1. If a sign is provided at the toilet room entrance (e.g. Men, Women, Boys, Girls, etc.), is a sign with raised characters and Braille mounted on the wall adjacent to the latch side of the door and centered 60 inches above the floor? [ADA Standards § 4.1.3(16)(a)]

Yes

No

If No, install a sign with raised characters and Braille on the wall adjacent to the latch side of the door and centered 60 inches above the floor and leave the existing sign in place on the door if removing it will damage the door.

Note: an additional sign may be mounted on the toilet room door but this cannot be considered to be the accessible sign which must be mounted on the wall adjacent to the latch side of the door.

M2. Does the door to the toilet room provide at least 32 inches clear passage width when the door is open 90 degrees? [ADA Standards § 4.13.5]

Yes

No

M3. Is the hardware (e.g., lever, pull, etc.) usable with one hand without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.13.9]

Yes

No

If No, add new accessible hardware or adapt/replace hardware.

M4. On the latch, pull side of the door, is there at least 18 inches clearance provided if the door is not automatic or power operated? [ADA Standards § 4.13.6; Fig. 25]

Yes

No

M5. If there is a raised threshold, is it no higher than 3/4 inch at the door and beveled on both sides? [ADA Standards §§ 4.1.6(3)(d)(ii); 4.13.8]

Yes

No

If No, replace threshold with one with beveled sides or add a sloped insert.

M6. Inside the room is there an area for a person who uses a wheelchair to turn around - either a 60-inch diameter circle or a "T"-shaped turn area? [ADA Standards §§ 4.22.3; 4.2.3]

Yes

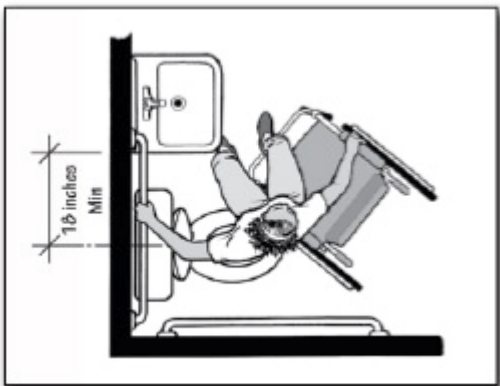
No

M7. If the door swings into the room, does the door swing not overlap the required clear floor space for the toilet or lavatory? [ADA Standards §§ 4.22.2; 4.2.4.1]

Yes

No

Note: In the figure below the clear floor space for the toilet extends at least 66 inches from the back wall.



**Plan view showing the minimum amount of space required between the toilet and the adjacent lavatory.**

M8. Is there at least 18 inches between the center of the toilet and the side of the adjacent lavatory? [ADA Standards § 4.16.2; Fig. 28]

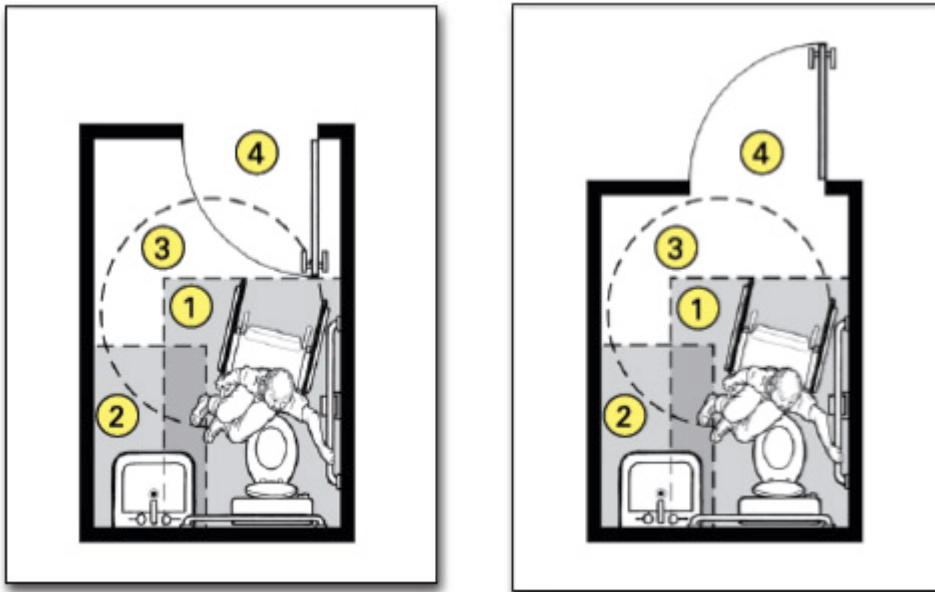
Yes

No

M9. Does the lavatory have at least a 29-inch-high clearance under the front edge and the top of the rim no more than 34 inches above the floor? [ADA Standards § 4.19.2]

Yes

No



**Plan view of a single-user toilet room showing the door swing not overlapping the dark toned area indicating the clear floor space for the toilet and lavatory. The door swing may overlap the turning space indicated by the circular area.**

**Notes:**

1. 48-inch minimum by 66-inch minimum clear floor space for toilet
2. 48-inch minimum by 30-inch minimum clear floor space for lavatory
3. 60-inch minimum turning space
4. door swing

M10. Are the drain and hot water pipes for the lavatory insulated or otherwise configured to protect against contact? [ADA Standards § 4.19.4]

Yes

No

M11. Does that lavatory have controls that operate easily with one hand, without tight grasping, pinching, or twisting of the wrist? [ADA Standards § 4.19.5]

Yes

No

M12. If a mirror is provided, is the bottom of the reflecting surface no higher than 40 inches above the floor or is a full length mirror provided? [ADA Standards § 4.19.6]

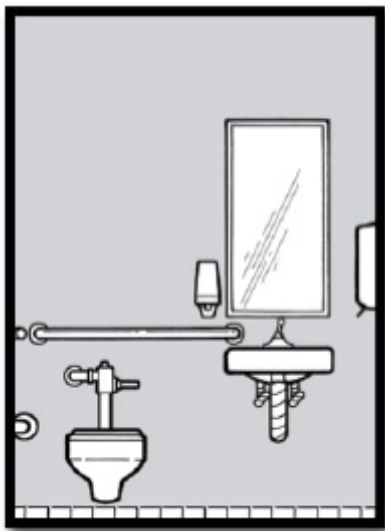
Yes

No

M13. For each type of dispenser, receptacle, or equipment, is there clear floor space at least 30 inches wide x 48 inches long adjacent to the control or dispenser (positioned either parallel to the control or dispenser or in front of it)? [ADA Standards §§ 4.23.7; 4.27.2; 4.2.5 and Fig. 5; 4.2.6 and Fig. 6]

Yes

No



**Front view of toilet, lavatory, mirror and soap dispenser**

M14. Is the operating control (switch, lever, button, or pull) for each type of dispenser or built-in equipment no higher than 54 inches above the floor (if there is clear floor space for a parallel approach) or 48 inches (if there is clear floor space for a front approach)? [ADA Standards §§ 4.23.7; 4.27.3; 4.2.5 and Fig. 5; 4.2.6 and Fig. 6]

Yes

No

M15. Are all built-in dispensers, receptacles, or equipment mounted so the front does not extend more than 4 inches from the wall if the bottom edge is between 27 inches and 80 inches above the floor? [ADA Standards §§ 4.23.7; 4.27; 4.4.1; Fig. 8]

Yes

No

M16. Is the centerline of the toilet 18 inches from the adjacent side wall? [ADA Standards §§ 4.16.2; 4.17.3]

Yes

No

M17. Is the top of the toilet seat 17 to 19 inches above the floor? [ADA Standards § 4.16.3]

Yes

No

M18. Is the flush valve located on the side adjacent to the lavatory? [ADA Standards § 4.16.5]

Yes

No

M19. Is a horizontal grab bar at least 40 inches long securely mounted on the adjacent side wall 33 to 36 inches above the floor with one end no more than 12 inches from the back wall? [ADA Standards §§ 4.16.4; 4.17.6]

Yes

No

M20. Is there a horizontal grab bar at least 36 inches long securely mounted behind the toilet 33 to 36 inches above the floor with one end no more than 6 inches from the side wall? [ADA Standards §§ 4.16.4; 4.17.6]

Yes

No

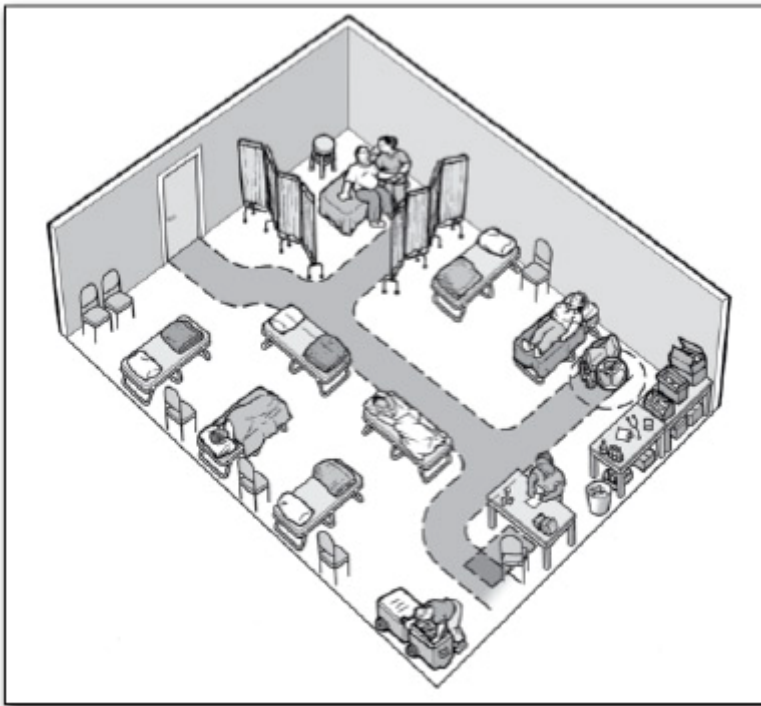
M21. If a coat hook is provided, is it mounted no higher than 54 inches above the floor for a side approach or 48 inches above the floor for a front approach? [ADA Standards § 4.25.3]

Yes

No

## **N. Health Units/Medical Care Areas**

In many schools, where emergency shelters are often located, nurses' rooms or other types of health care facilities may be provided. These health care facilities should be on an accessible route and have accessible features, including an accessible entrance, an accessible route to the different types of services offered within the medical care unit, turning and maneuvering spaces, and cots or beds that are at a height to which people who use mobility devices can easily transfer.



**An overhead view of a medical care area with a shaded pathway showing the accessible route shown and clear floor spaces.**



N1. Is there an accessible route, at least 36 inches wide (FBC – 44 inches wide if a required means of egress), that connects each of the shelter activity areas with the health units and medical care areas (it may narrow to 32 inches wide for up to 2 feet in length)? [ADA Standards § 4.3.2(3)]

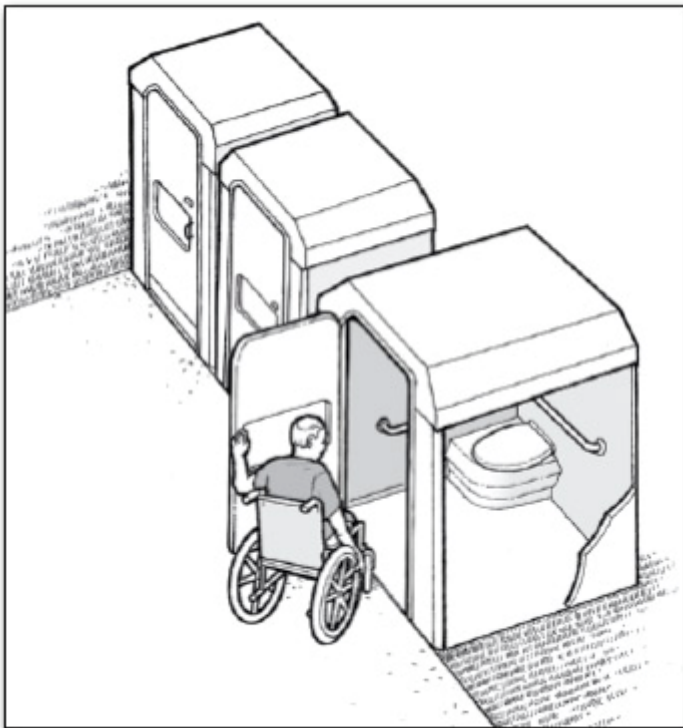
Yes

No

## O. Accessible Portable Toilets

Portable toilets are often used at emergency shelters to supplement permanent toilet facilities. When portable toilets are provided, at least one must be a unit with accessible features that is located on an accessible route connecting it with the shelter. For the entrance to an accessible portable toilet to be usable, there must either be no step or a ramp must be installed that extends from the hinge side of the door to at least 18 inches beyond the latch side of the door.

Accessible portable toilets should have similar features to a standard accessible toilet stall including an accessible door, side and rear grab bar, clear space next to the toilet, and maneuvering space.



**A person using a wheelchair enters an accessible portable toilet. The unit is positioned to provide a level entry from the accessible route.**

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## Chapter 7 Addendum 2: The ADA and Emergency Shelters: Access for All in Emergencies and Disasters

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One of government's primary responsibilities is to protect residents and visitors. Providing emergency shelter during disasters and emergencies is a basic way of carrying out this duty. Shelters are sometimes operated by government entities themselves. More commonly, though, shelters are operated for the state or local government by a third party – often the American Red Cross. Regardless of who operates a shelter, the Americans with Disabilities Act (ADA) generally requires shelters to provide equal access to the many benefits that shelters provide, including safety, food, services, comfort, information, a place to sleep until it is safe to return home, and the support and assistance of family, friends, and neighbors.<sup>1</sup> In general, the ADA does not require any action that would result in a fundamental alteration in the nature of a service, program, or activity or that would impose undue financial and administrative burdens.<sup>2</sup> This Addendum discusses some of the key issues that emergency managers and shelter operators need to address in order to comply with the ADA when they plan for and provide shelter during emergencies and disasters. Although this Addendum focuses primarily on issues affecting shelter residents with disabilities, these issues are also generally applicable to volunteers and employees with disabilities.

### A. Advance Planning

- **Equal access requires advance planning.** During emergencies and disasters, people with disabilities sometimes have different, disability-related needs than other individuals. Many of these needs cannot be met during emergencies and disasters without advance planning. For example, if a person's health will be jeopardized without access to life-sustaining medication that must be refrigerated, an emergency shelter will be of little use to him unless he has access to the required medication and a way to keep it sufficiently cold. Resources of this kind will likely be unavailable unless emergency managers and shelter operators arrange to have them available well before an emergency or disaster occurs.

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<sup>1</sup> 28 C.F.R. §§ 35.130, 35.149.

<sup>2</sup> 28 C.F.R. §§ 35.130(b)(7), 35.150(a)(3), 35.164.

To provide equal access to people with disabilities, effective advance planning requires at least two steps: (1) identify the disability-related needs of the residents and visitors likely to be housed in a shelter, and (2) make the advance arrangements necessary to meet those needs in the event an emergency or disaster strikes. The most effective way for emergency managers and shelter operators to ensure that advance planning addresses the needs of people with disabilities in their community is to involve community members with a wide variety of disabilities in the advance planning process. These individuals will be able to identify the types of disability-related needs that community residents and visitors are likely to have during emergencies as well as some of the community resources that may be available to help meet those needs.

To help in the advance planning process, the following sections of this Addendum identify some of the more common disability-related needs that shelter residents are likely to have. However, since people with different disabilities will typically have different needs, the issues addressed in this document are not exhaustive. Each community will have disability-related issues specific to its own residents and visitors that need to be identified and addressed. These issues are also likely to change over time as residents move into and out of communities and as changes occur in the types of equipment, medication, and technology that people with disability use.

## **B. Accessibility**

- **Ensure that the sheltering program is accessible to people with disabilities.** Disasters and emergencies are unpredictable. Even the best emergency managers cannot say with certainty when an emergency will strike, how extensive the damage will be, and which shelters will remain available to house people who must evacuate their homes. For most people, any building designated as a shelter will meet their basic emergency needs so long as it provides a safe place to eat, sleep, and take care of personal hygiene needs. But an emergency shelter is of little use to a person using a wheelchair if it has steps at the entrance or toilet rooms she cannot use.

Under the ADA, emergency sheltering programs must not exclude or deny benefits to people with disabilities.<sup>3</sup> Emergency managers and shelter

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<sup>3</sup> 28 C.F.R. §§ 35.130, 35.149.

operators should therefore seek to ensure that shelters are physically accessible to people with disabilities, including people who use wheelchairs. Before designating a facility as an emergency shelter, emergency managers and shelter operators need to determine if it is accessible. Elements such as a shelter's parking, walkway to the entrance, entrance, toilets, bathing facilities, drinking fountains, sleeping area, food distribution and dining quarters, first aid/medical unit, emergency notification system, and other activity and recreation areas need to be examined for barriers. Government facilities built since 1992 and private business facilities built since 1993 are often the best candidates for emergency shelters because they were subject to ADA requirements for physical accessibility when they were built.<sup>4</sup> Some older facilities have been altered to provide physical accessibility<sup>5</sup> or can be made physically accessible by using temporary measures stored on site and readily available for use in the event an emergency occurs. Other older facilities are poor candidates for emergency shelters because they have barriers that are too expensive or infeasible to remove. For guidance on emergency shelter accessibility, please see the Department of Justice's "ADA Checklist for Emergency Shelters" at [www.ada.gov/pcatoolkit/chap7sheltercheck.htm](http://www.ada.gov/pcatoolkit/chap7sheltercheck.htm). The checklist includes two assessment tools to ensure that emergency shelters provide access to all: (1) a preliminary checklist that will help emergency managers and shelter operators decide if a facility has the characteristics that make it a good candidate for a potential emergency shelter, and (2) a more detailed checklist that will help identify and remove the most common barriers to physical accessibility.

***Emergency managers and shelter operators need to ensure that sheltering programs are accessible to people with disabilities, including individuals who use wheelchairs.***

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<sup>4</sup> 28 C.F.R. § 35.151(a) (for public facilities); 28 C.F.R. § 36.406 (for private facilities that are subject to the requirements of Title III of the ADA because they are public accommodations or commercial facilities).

<sup>5</sup> 28 C.F.R. § 35.151(b) (for public facilities); 28 C.F.R. §§ 36.402 - 36.405 (for private facilities that are subject to the requirements of Title III of the ADA because they are public accommodations or commercial facilities).

## C. Eligibility Criteria

Shelters are usually divided into two categories: (1) “mass care” shelters, which serve the general population, and (2) “special needs” or “medical” shelters, which provide a heightened level of medical care for people who are medically fragile. Special needs and medical shelters are intended to house people who require the type and level of medical care that would ordinarily be provided by trained medical personnel in a nursing home or hospital.

- **House people with disabilities in mass care shelters.** Emergency managers and shelter operators sometimes wrongly assume that people need to be housed in special needs or medical shelters simply because they have a disability. But most people with disabilities are not medically fragile and do not require the type or level of medical care that special care and medical shelters are intended to provide. The ADA requires people with disabilities to be accommodated in the most integrated setting appropriate to their needs,<sup>6</sup> and the disability-related needs of people who are not medically fragile can typically be met in a mass care shelter. For this reason, people with disabilities should generally be housed with their families, friends, and neighbors in mass care shelters and **not** be diverted to special needs or medical shelters.

To comply with the ADA’s integration requirement, emergency managers and shelter operators need to plan to house people with a variety of disabilities in mainstream mass care shelters, including those with disability-related needs for some medical care, medication, equipment, and supportive services. Emergency managers and shelter operators must also ensure that eligibility criteria for mass care shelters do not unnecessarily screen out people with disabilities who are not medically fragile based on erroneous assumptions about the care and accommodations they require.

- **Respect the right of people with disabilities to make choices about where to shelter.** In some communities, emergency managers have designated shelters specifically for individuals with disabilities or individuals with a specific type of disability. For example, a community with a school for students who are deaf may designate that facility as an emergency shelter for people who are deaf. While the ADA does not prohibit offering these types of emergency shelters,<sup>7</sup> it generally does prohibit emergency managers and shelter operators from requiring people with disabilities or

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<sup>6</sup> 28 C.F.R. § 35.130(d).

<sup>7</sup> 28 C.F.R. § 35.130(b)(2) - (c).

people with a specific type of disability to stay in such shelters.<sup>8</sup> The ADA requires emergency managers and shelter operators to accommodate people with disabilities in the most integrated setting appropriate to their needs, which is typically a mass care shelter.

- **House people with disabilities in mass care shelters even if they are not accompanied by their personal care aides.** Some people with disabilities use personal care assistance for activities of daily living, such as eating, dressing, routine health care, and personal hygiene needs. One question that frequently arises is whether people with disabilities who use attendant care can be appropriately housed in mass care shelters. In most instances, they can. Most people with disabilities who use attendant care are not medically fragile and do not require the heightened level of medical care provided in a special needs or medical shelter.

In the past, some shelter operators maintained policies that prevented people with disabilities who regularly use attendant care from entering mass care shelters unless they were accompanied by their own personal care attendants. These policies denied access to many people with disabilities.

During emergencies, many personal care attendants – like other people – evacuate or shelter with their own families instead of staying with their clients. Shelter operators should provide support services in mass care shelters to accommodate people with disabilities who are not medically fragile but need some assistance with daily living activities unless doing so would impose an undue financial and administrative burden. Such assistance can be provided by medical personnel or trained volunteers.

***Local governments and shelter operators may not make eligibility for mass care shelters dependent on a person's ability to bring his or her own personal care attendant.***

- **Make arrangements in advance to ensure that special needs and medical shelters have sufficient numbers of adequately trained medical staff and volunteers.** Special needs and medical shelters house people with disabilities who require the heightened medical care that is ordinarily provided in nursing homes and hospitals. However, in the past, these shelters have often had too few qualified staff – or relied too heavily

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<sup>8</sup> 28 C.F.R. § 35.130(b)(2), (e)(1).

on volunteers with minimal training – to provide adequate care to the medically fragile people they house.

Advance planning is the only way emergency managers and shelter operators can secure enough trained medical personnel and adequately trained volunteers to ensure the safety and comfort of residents of special needs and medical shelters.

- **Keep families together whenever possible, even in special needs and medical shelters.** Family members provide each other the support and assistance necessary to cope with emergencies and disasters. During these difficult times, separation from family members increases loneliness, worry, and additional stress. But while most families have been able to stay together during emergencies, individuals with disabilities have often been unnecessarily separated from their families because many special needs and medical shelters do not allow them to be accompanied by more than one person.

In disasters and emergencies, people are ordinarily allowed to shelter with their families. This benefit needs to be available to persons with disabilities as it is for everyone else. Of course, some people in special needs and medical shelters may need to be housed in medical wards apart from their families because of critical medical needs, but their families should still be housed nearby.

## D. Reasonable Modifications

The ADA generally requires emergency managers and shelter operators to make reasonable modifications to policies, practices, and procedures when necessary to avoid discrimination.<sup>9</sup> A reasonable modification must be made unless it would impose an undue financial and administrative burden.<sup>10</sup> The following are examples of reasonable modifications that emergency managers and shelter operators will generally need to make:

- **Modify “no pets” policies to welcome people who use service animals.** Many emergency shelters do not allow residents or volunteers to bring their pets inside. But shelters must generally modify “no pets” policies to allow people with disabilities to be accompanied by their service animals.

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<sup>9</sup> 28 C.F.R. § 35.130(b)(7).

<sup>10</sup> 28 C.F.R. § 35.130(b)(7).

A service animal is not a pet. Under the ADA, a service animal is any animal that is individually trained to provide assistance to a person with a disability. Most people are familiar with dogs that guide people who are blind or have low vision. But there are many other functions that service animals perform for people with a variety of disabilities. Examples include alerting people who are deaf or hard of hearing to sounds; pulling wheelchairs; carrying or retrieving items for people with mobility disabilities or limited use of arms or hands; assisting people with disabilities to maintain their balance; and alerting people to, and protecting them during, medical events such as seizures.

How can a service animal be identified? Service animals come in all breeds and sizes. Many are easily identified because they wear special harnesses, capes, vests, scarves, or patches. Others can be identified by the functions they perform for people whose disabilities can be readily observed. When none of these identifiers are present, shelter staff may ask only two questions to determine if an animal is a service animal: (1) "Do you need this animal because of a disability?" and (2) "What tasks or work has the animal been trained to perform?" If the answers to these questions reveal that the animal has been trained to work or perform tasks for a person with a disability, it qualifies as a service animal and must generally be allowed to accompany its owner anywhere other members of the public are allowed to go, including areas where food is served and most areas where medical care is provided. Questions about the nature or severity of a person's disability or ability to function may not be asked. It is also inappropriate to question a person's need for a service animal or to exclude a service animal on the grounds that shelter staff or volunteers can provide the assistance normally provided by the service animal.

- **Modify kitchen access policies for people with medical conditions that may require access to food.** Most shelter operators restrict residents' and volunteers' access to the kitchen to preserve food and beverage supplies and maintain efficient kitchen operations. But people with medical conditions such as diabetes may need immediate access to food to avoid serious health consequences. Shelter operators need to make reasonable modifications to kitchen policies so that residents and volunteers with disability-related needs can have access to food and beverages when needed.
- **Modify sleeping arrangements to meet disability-related needs.** To maximize efficiency, shelter operators typically provide one standard type of cot or mat for use by shelter residents. However, some people have disability-related needs for cots to be modified or may need to sleep on cots or beds instead of on mats placed on the floor. For example, a person with



muscular dystrophy may require a cot with a very firm mattress to provide the physical support needed to facilitate breathing. Similarly, many people with mobility disabilities will be unable to use a sleeping mat placed on the floor. For example, many people using wheelchairs or scooters will be unable to safely transfer on and off a cot or bed unless it is firmly anchored so it does not move and has a firm sleeping surface that is 17 - 19 inches above the floor. Shelter operators need to establish procedures that people with disabilities can use to request reasonable modifications to sleeping arrangements.

## **E. Effective Communication**

From the moment people begin to arrive at a shelter, good communication between staff, volunteers, and residents is essential. Many shelter residents and volunteers might have communication-related disabilities, including those who are deaf or hard of hearing and those who are blind or who have low vision. People with mental retardation or psychiatric disabilities might also have communication difficulties in certain circumstances, such as registering, filling out applications for benefits, or trying to understand what benefits and services are available.

Under the ADA, shelter operators must provide “effective communication” to people with disabilities unless doing so would result in a fundamental alteration or would impose undue financial and administrative burdens.<sup>11</sup> Shelters that are part of a state or local government sheltering program must give “primary consideration” to the type of auxiliary aid or service preferred by the person with a disability;<sup>12</sup> they must defer to that choice unless another equally effective method of communication is available or the preferred method would impose an undue financial and administrative burden or fundamental alteration.<sup>13</sup> This requirement applies even if a third party operates the shelter under an arrangement with the state or local government.

Advance planning is critical to ensuring effective communication during an emergency. Without such planning, it may be difficult or impossible to locate auxiliary aids and services and have them ready for use at the shelter. Advance planning will also alleviate the expense and burdens associated with providing auxiliary aids.

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<sup>11</sup> 28 C.F.R. § 35.160.

<sup>12</sup> 28 C.F.R. § 35.160(b)(2).

<sup>13</sup> 28 C.F.R. § 35.164.

- **Provide alternate format materials for people who are blind or who have low vision.** People who are blind or have low vision may request documents and brochures in alternate formats (Braille, large print, or audio recording). Generally, shelter supplies should include alternate format versions of documents that are routinely made available to shelter residents. Having alternate formats available for distribution during an emergency requires advance planning.

When documents are prepared on the spot and alternate formats cannot be prepared in advance or produced as needed, shelter operators are still required to provide effective communication through alternate means.<sup>14</sup> Often, the most effective solution in an emergency is to provide a person to read printed documents and, where applicable, someone to help fill out forms. People who serve as readers or provide assistance filling out forms must be “qualified” – in the context of an emergency shelter, this means being capable of and willing to read materials and complete forms as instructed by the person with a disability.

- **Ensure that audible information is made accessible to people who are deaf or hard of hearing.** In emergency shelters, most information is conveyed through oral announcements. Shelter operators must ensure that people who are deaf or hard of hearing have access to this information in a timely and accurate manner. In some circumstances, qualified sign language or oral interpreters may be required by the ADA. In others, posting messages and announcements in written format on a centrally located bulletin board, or writing notes back and forth with residents who are deaf or hard of hearing, may suffice.

The type of auxiliary aid or service required in a specific situation depends on several factors, including the length, complexity, and importance of the communication and the person’s language skills and history. For example, handwritten notes will not communicate information effectively to a person who cannot read. Similarly, providing a sign language interpreter will not be effective for a person who is hard of hearing and does not understand sign language.

If it becomes an undue financial and administrative burden to obtain qualified sign language or oral interpreters at a shelter, then the ADA does not require them. However, advance planning can significantly reduce the costs and administrative burdens of making interpreters available.

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<sup>14</sup> 28 C.F.R. § 35.164.

- **Provide a TTY for the use of people who are deaf or hard of hearing.** Many people in shelters use telephones to apply for disaster relief benefits, arrange for transitional housing, and speak to family and friends. People who can use standard voice telephones typically make use of shelter telephones or cellular phones for this purpose. But without access to a teletypewriter (TTY), people who are deaf or hard of hearing and those who have speech disabilities are unable to communicate with others over the telephone.

## F. Shelter Environment

- **Offer orientation and wayfinding assistance to people who are blind or have low vision.** Until they become familiar with the shelter layout, blind people and those with low vision may have difficulty locating different areas of the shelter. Even after they are oriented to the shelter environment, changes in furniture layout or the addition or removal of cots may be disorienting to people who rely on these landmarks to find their way around. When they arrive at a shelter, people who are blind and those with low vision might need assistance orienting themselves to the shelter layout and locating pathways to sleeping areas, toilet rooms, and other areas of the shelter they may wish to use. Offer, but do not insist, on providing orientation and wayfinding assistance. Some people who are blind or have low vision need such assistance. Others can, and prefer to, find their own way.
- **Maintain accessible routes.** Cots and other furniture need to be placed to ensure that accessible routes – routes that people who use wheelchairs, crutches, or walkers can navigate – connect all features of the shelter. For instance, accessible routes need to connect the sleeping quarters to the food distribution and dining quarters, to the toilet rooms and bathing facilities, activity areas, etc. Generally, an accessible route is 36 inches wide, except at doors and for short distances, when it can be narrower, and where it turns, when it must be wider. More guidance on accessible routes is provided in the “ADA Checklist for Emergency Shelters” at [www.ada.gov/pcatoolkit/chap7sheltercheck.htm](http://www.ada.gov/pcatoolkit/chap7sheltercheck.htm).
- **Eliminate protruding objects in areas where people can walk.** Furniture and other items should be positioned to direct pedestrians who are blind or have low vision safely away from overhead or protruding objects. This requirement extends beyond the “accessible route” and applies throughout the shelter environment to any place where a person can walk. Hazards posed by protruding and overhead objects can

typically be eliminated by placing a cane-detectable barrier on the floor beneath or next to them. But care should be taken so cane-detectable barriers do not block accessible routes or the clear floor space that people using mobility devices need to access common protruding objects such as drinking fountains. For more guidance on protruding objects, please see the “ADA Checklist for Emergency Shelters” at [www.ada.gov/pcatoolkit/chap7sheltercheck.htm](http://www.ada.gov/pcatoolkit/chap7sheltercheck.htm).

- **Consider low-stimulation “stress-relief zones.”** The stress from the noise and crowded conditions of a shelter – combined with the stress of the underlying emergency – may aggravate some disability-related conditions, such as autism, anxiety disorders, or migraine headaches. Without periodic access to a “quiet room” or quiet space within a larger room, some people with disabilities will be unable to function in a shelter environment. In locations where a school gym serves as the emergency shelter, a nearby classroom can provide the necessary relief from noise and interaction that some shelter residents and volunteers with disabilities will need. Other shelter residents and volunteers may want a break from the noise and crowds. But quiet spaces are limited, they should be made available on a priority basis to people whose disabilities are aggravated by stress or noise.
- **Consult residents with disabilities regarding placement of their cots.** Some individuals will have disability-related needs that require accommodation when assigning the location of their cot. For instance, a person who uses a wheelchair, crutches, or a walker may need a cot located close to an accessible toilet room. Since an assigned cot may not be identifiable by touch, a blind person may need a cot placed in a location that she can easily find. A person with low vision may need his bed located close to light so he can see or away from bright light that aggravates his eyes. Likewise, someone who is deaf or hard of hearing may need a cot placed away from visual distractions that would prevent him from sleeping.

## G. Supplies

- **Provide an effective way for people to request and receive durable medical equipment and medication.** Despite advance planning, some people with disabilities will find themselves in shelters without a supply of the medications or medical equipment they need. For example, some medical insurance plans prohibit people from purchasing medication until their existing supply is almost gone. Other people may be required to evacuate without medication or medical equipment or be inadvertently separated from medication or medical equipment during evacuation.

Emergency managers and shelter operators need to plan and make arrangements in advance so persons with disabilities can obtain emergency supplies of medications and equipment.

- **Whenever possible, provide refrigeration for certain types of medication.** Many people with disabilities need medication that must be refrigerated. Shelters need to have a safe and secure refrigerated location where medications can be stored and accessed when needed.
- **If electricity is available, give priority to people with disabilities who use ventilators, suctioning devices, and other life-sustaining equipment.** Some people with disabilities require ventilators, suctioning devices, or other life-sustaining equipment powered by electricity. Without electrical power, many of these individuals cannot survive. When electrical power is available, access should be given to people who depend on electrically powered equipment to survive.

Many people with disabilities depend on battery-powered wheelchairs and scooters for mobility. The batteries in these mobility aids must frequently be recharged, or they will stop functioning. Without these mobility aids, many people with disabilities will lose their ability to move about, they may be unable to participate in some services offered by the shelter, and they may need to depend more heavily on assistance from others. When possible, provide these individuals the opportunity to charge the batteries that power the equipment they use for mobility and independence.

- **Provide food options that allow people with dietary restrictions to eat.** Because of disabilities, some people are unable to eat certain types of food. For example, people with diabetes must restrict their intake of carbohydrates. Other people have severe allergies to common food ingredients, such as peanut oil and byproducts. In planning food supplies for shelters, emergency managers and shelter operators need to consider foods and beverages for people with common dietary restrictions.
- **Provide emergency supplies that enable people with disabilities to care for their service animals.** Many people with disabilities rely on service animals to do things they cannot do themselves. But when evacuating during an emergency, some individuals will be unable to transport enough food and water for their service animals. Shelter operators need to make food and water available so individuals can feed and care for their service animals. Shelter operators should also make reasonable modifications to security screening procedures so that people with disabilities are not repeatedly subjected to long waits at security

checkpoints simply because they have taken their security animals outside for relief.

## H. Transitions Back to the Community

- **Provide people with disabilities a reasonable amount of time and assistance to locate appropriate housing.** Shelters provide temporary refuge during and after an emergency until people can return home or arrange an alternative place to live. In some instances, shelter operators have required individuals with disabilities to move to hospitals, nursing homes, or other institutions when these individuals could not locate accessible housing or the supportive services they needed to live in their own home as quickly as other individuals. As a result, some people with disabilities who once lived independently in their own homes found themselves institutionalized soon after a disaster occurred.

The ADA generally requires people with disabilities to receive services in the most integrated setting appropriate to their needs unless doing so would result in a fundamental alteration in the nature of services or impose undue financial and administrative burdens.<sup>15</sup> To comply with this requirement and assist people with disabilities in avoiding unnecessary institutionalization, emergency managers and shelter operators may need to modify policies to give some people with disabilities the time and assistance they need to locate new homes.

## I. Other Resources

As discussed above, the ADA requires that people with disabilities have equal access to shelters and the benefits they provide. Providing equal access to people with different disabilities can involve very different issues. This document discusses a few of the most common issues and how they can be addressed. Other issues are addressed in Chapter 7 of the “ADA Best Practices Tool Kit for State and Local Governments,” “The ADA Guide for State and Local Governments: Making Emergency Preparedness and Response Programs Accessible to People with Disabilities,” the “ADA Checklist for Emergency Shelters,” and other technical assistance materials that are available on the Department of Justice’s ADA Home Page at [www.ada.gov](http://www.ada.gov).

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<sup>15</sup> 28 C.F.R. § 35.130(d).