2006
Statewide Emergency Shelter Plan

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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 anywhere in the state. Shelter surveys and evacuation studies have determined that significant hurricane shelter space deficits exist in nearly all regions of the state. These regional deficits can have a significant impact on the ability of local agencies to protect citizenry when a major hurricane threatens or strikes Florida.

Pursuant to section 1013.372(2), Florida Statutes, the Department of Community Affairs (the Department) is responsible for preparing a *Statewide Emergency Shelter Plan* (the Plan) to guide local planning and provide consultative assistance with the construction of educational facilities to provide public shelter space. The purpose of this Plan is to meet the statutory responsibility outlined in section 1013.372(2), Florida Statutes. The Plan is prepared and submitted for approval on a biennial basis and, once approved by the Governor and Cabinet, will determine which Regional Planning Council (RPC) regions and counties will need to construct new school facilities that must comply with the public shelter design criteria. 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 2006 and 2011 regional hurricane shelter space demands, capacities and their respective statuses as regions with a surplus or deficit. At this time, only four (4) RPC regions have a surplus of hurricane shelter space in 2006: 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 2, 10 and 11 through 2011; RPC region 6 will experience a deficit in 2011, but only if there are no additional shelter capacity created. All other regions have hurricane shelter space deficits, and per section 1013.372(1), Florida Statutes, their 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 2006 through 2011
General Population and Special Needs Shelters

RPC Region	RPC Region Name	General Population Shelter Demand and Capacities					Special Needs Shelter Demand and Capacities				
		2006 Cat. 5 Shelter Demand, persons	2011 Cat. 5 Shelter Demand, persons	2006 Shelter Capacity, persons	2006 Shelter Surplus/ (Deficit), persons	2011 Shelter Surplus/ (Deficit), persons	2006 Cat. 5 Shelter Demand, clients	2011 Cat. 5 Shelter Demand, clients	2006 Shelter Capacity, clients	2006 Shelter Surplus/ (Deficit), clients	2011 Shelter Surplus/ (Deficit), clients
1	West Florida (WF)	63,643	68,752	42,776	(20,867)	(25,976)	2,072	2,542	2,197	125	(345)
2	Apalachee (APAL)	21,924	23,017	30,444	8,520	7,427	835	1.004	491	(344)	(513)
3	North Central Florida (NCF)	34,839	37,723	27,787	(7,052)	(9,936)	629	769	624	(5)	(145
4	Northeast Florida (NEF)	77,791	86,372	46,305	(31,486)	(40,067)	1,675	2,159	1,851	176	(308)
5	Withlacoochee (WITH)	42,471	47,363	18,944	(23,527)	(28,419)	1,386	1,646	1,181	(205)	(465)
6	East Central Florida (ECF)	93,102	103,999	101,364	8,262	(2,635)	3,285	3,964	5,473	2,188	1,509
7	Central Florida (CF)	101,594	109,530	50,257	(51,337)	(59,273)	1,572	1,799	332	(1,240)	(1,467)
8	Tampa Bay (TB)	329,879	355,186	180,297	(149,582)	(174,889)	2,827	3,219	5,737	2,910	2,518
9	Southwest Florida (SWF)	275,413	311,148	118,090	(157,323)	(193,058)	2,556	3,024	2,441	(115)	(583)
10	Treasure Coast (TC)	64,000	70,863	84,797	20,797	13,934	1,573	1,843	2,207	634	364
11	South Florida (SF)	106,430	113,108	123,646	17,216	10,538	1,265	1,476	4,230	2,965	2,754
	TOTALS	1,211,086	1,327,061	824,707	(386,379)	(502,354)	19,675	23,445	26,764	7,089	3,319

With publication of the 2006 Plan, the Department is also monitoring the status of the statewide inventory of Special Needs Shelters (SpNS). Historically, SpNSs have been included in total population hurricane shelter demand estimates, hurricane shelter capacities and surplus/deficit results. However, given the findings of the 2004 hurricane season that about half of the designated SpNSs were located in facilities that did not meet the same minimum safety criteria as general population shelters, the Department was asked to separate the two shelter types and monitor progress towards improving SpNS safety, client capacity and provision of emergency power supported air-conditioning. As can be seen in Table EX-1, the SpNS client safety and capacity situation has improved with only five (5) regions currently having client space deficits. A surplus of SpNS space exists on a statewide basis.

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.

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

During preparation of this Plan, the Department conducted a survey to estimate the compliance rate of school districts with meeting statutory and code requirements to incorporate the public shelter design criteria into all new school facilities, unless lawfully exempted with the written concurrence of local emergency management or the Department. In the Auditor General's Report No. 02-055 (2001), there was a finding that of the new schools reviewed, only 65 percent appeared to comply with the law. The Department wanted to determine if compliance had improved since 2001. According to the Florida Inventory of School Houses (FISH) data, there were 1,708 new school buildings constructed between 2000 and 2005, with an estimated total net usable floor area of 50,718,368 square feet. The Division recognizes 302 facilities (12,510,243 square feet) as meeting the requirements of the law, and another 565 buildings (16,018,645 square feet) were lawfully exempt for statutory and code accepted causes. Therefore, only about 867 of 1,708 new buildings complied with statutory and code EHPA requirements.

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 22,189,480 square feet, or a non-compliance rate of about 44 percent. The result of the survey indicates that compliance has not 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.

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 Department recommend an appropriate and available source of funding for the additional cost of constructing emergency shelters. There is no dedicated state source of funding to support new hurricane shelter construction, so the Department recommends use of existing state capital outlay funds.

The only significant and appropriate funding source available at this time for public schools, community colleges and universities is Public Education Construction Outlay (PECO) funds. Therefore, the Department recommends PECO funds. 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 $1,298,044,400 in new construction funds to district school boards since promulgation of the public shelter requirement into code in 1997. Other state sources of school 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 Department's Division of Emergency Management (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

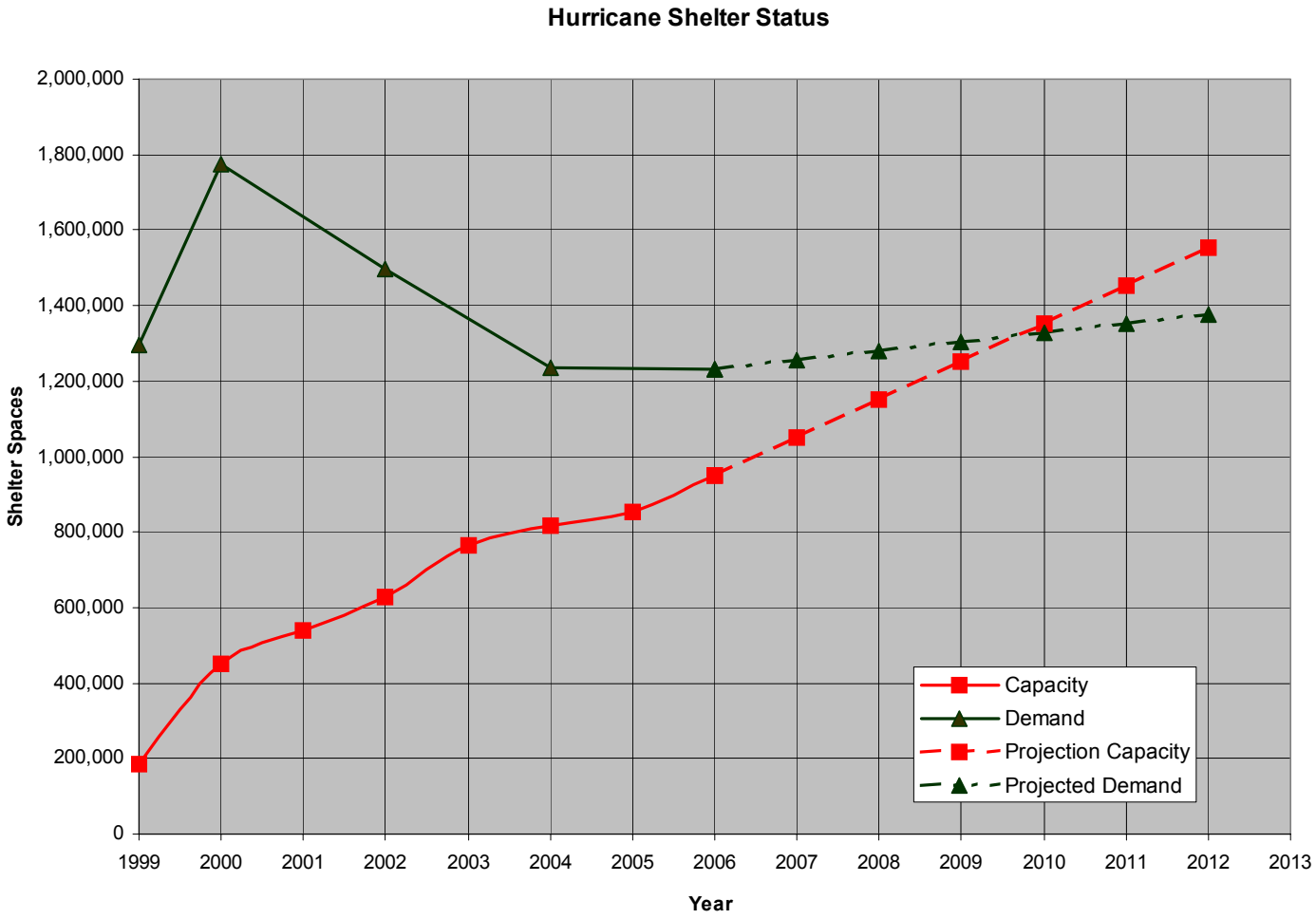
reduction through improved hurricane hazard models and behavioral studies; and, 5) improve public information/education to reduce unnecessary "shadow" evacuations.

Since 1995, the Division's hurricane shelter survey and retrofit program has identified, created or otherwise documented 474,772 hurricane shelter spaces that meet ARC 4496 guidelines. Public school new construction programs have created an additional 376,699 hurricane shelter spaces. Therefore, by the 2006 hurricane season, Florida will have a total of about 851,471 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 75 percent, and based on current trends the Division estimates that about 100,000 spaces will be added to the state's inventory each year. As can be seen in Figure EX-1, the Department estimates that the hurricane shelter space deficit may be eliminated by 2010.

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 Brevard, Broward, Gilchrist, Hamilton, Hendry, Holmes, Indian River, Lake, Leon, Liberty, Madison, Manatee, Martin, Miami-Dade, Palm Beach, Osceola, St. Johns, St. Lucie, Seminole, Taylor, Union, Walton, and Washington. Also, four 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 Department'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), Florida Statutes (F.S.), the *Statewide Emergency Shelter Plan,* hereafter referred to as the 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 Department 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 Department 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 145 miles per hour spread inland, causing catastrophic damage in some areas of south 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

citizens 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 concerns 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 writing 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, Florida Statutes. Based on those revisions, the Legislature clearly stated its intent that Florida not have a deficit of safe public hurricane shelter space in any region of the state.

One of the statutory revisions required that the Department of Education, in consultation with boards and county and state emergency management offices, develop standards for a public shelter design criteria, which were to be 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 Department.

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, 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 (see Appendix B). Subsequently, along with other sections of SREF, the criteria were incorporated in Chapter 423 of the Florida Building

Code (FBC), which became effective March 1, 2002. This provided a seamless continuation of the criteria for new school construction projects.

The sheltering lessons learned from Hurricane Andrew were further reiterated by the experiences of the 2004 and 2005 hurricane seasons. During these two seasons alone, approximately 15 million people in Florida were under evacuation orders from eight (8) hurricanes and two (2) tropical storms. Nearly every county in Florida was under hurricane or inland high wind warnings, prompting mandatory evacuation orders for their storm surge and 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 shelters is a statewide challenge. Cumulatively, even if a small number of counties have shelter space surpluses, deficits in any county have statewide implications that must be addressed, at a minimum, at the regional level. Evacuees that cannot find shelter space within their own county or region will leave those areas in search of viable shelter alternatives elsewhere. Implementation 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.

In s. 252.38, F.S., the Legislature states that "Safeguarding 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., Boards of County Commission). To expand and expedite locally available resources to meet an emergency situation, the Legislature directed that during a declared state or local emergency, district school boards will upon request participate in emergency management by providing facilities, personnel, equipment and vehicles.

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 in most cases, 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) 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 [1]Board of Regents, 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.

(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.

In s. 252.385, F.S., the Legislature stated its intent to eliminate the deficit of "safe" public hurricane shelter space. The Department's Division of Emergency Management (the Division) was given both the responsibility and authority to administer a statewide program to survey public facilities to identify those that are appropriately designed and located to serve as public shelters. The owners of the facilities to be surveyed are responsible for coordinating and implementing the survey with the Division and applicable local emergency management agencies.

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 a public 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 Department as meeting ARC 4496 safety criteria. The capacity lists include 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 initiating need (known or perceived hazards and risks), location, available staffing resources, internal/external movement circulation, availability of adequate toilets and sanitation, feeding capabilities, emergency power, types of spaces available and their configuration and contents, type of roof covering and condition, etc. When anticipated demand exceeds available capacity of ARC 4496 space, local emergency managers select other facilities that afford the best available protection.

In s. 252.385(4)(a), F.S., the Legislature directs that 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.

In s. 1013.372(1), F.S., the Legislature directed the Department of Education 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, FBC), 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. The criteria were subsequently incorporated into the FBC on March 1, 2002.

The statute indicates that a board may exempt a facility from the criteria due to location, size or other characteristics that cause the facility to be inappropriate for use as a public shelter, with the concurrence of the applicable local emergency management agency or the Department. A facility that is located, or proposed to be located, in a Regional Planning Council region that is determined by the Department to have a hurricane shelter surplus may also be exempted. **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 Department.**

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.

In s. 1013.74(4), F.S., state university boards of trustees have statutory authorities and responsibilities similar to 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 FBC's public shelter design criteria. The Department recommends use of the FBC'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 Department. A facility that is proposed to be located in a Regional Planning Council region that is determined by the Department 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 Department.

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

(c) Local emergency management agencies shall be responsible for the designation and operation of special needs shelters during times of emergency or disaster. County health departments shall assist the local emergency management agency with regard to the management of medical services in special needs shelters.

In section 381.0303(2), local emergency management agencies are given the statutory responsibility of designating and operating 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 encourages local emergency managers to designate SpNS facilities that at a minimum meet the ARC 4496 hurricane safety criteria, and preferably facilities that have been designed and constructed to the public shelter design criteria.

2.0 EDUCATIONAL FACILITIES AS EMERGENCY SHELTERS

The public shelter design criteria, which are also known as the Enhanced Hurricane Protection Area (EHPA) criteria, 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, and secondarily the social and recreational purposes of the community. Though the hurricane shelter function is considered a secondary function of a public school facility, 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 were prepared to ensure that new educational facilities could meet or exceed applicable national design and construction standards, guidelines and "best practices." The EHPA criteria were also developed to significantly enhance the occupant safety of public hurricane shelters, and enhance their ability to survive and continue to serve the public after exposure to a major hurricane.

In particular, the American Red Cross' ARC 4496 must be consulted during the planning process for an EHPA; see Appendix C. ARC 4496 is the minimum hurricane shelter selection guideline used by the Department, 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://floridadisaster.org/bpr/Response/engineers/documents/newarc4496.pdf

The criteria require that EHPAs be designed, constructed and certified as capable of withstanding wind loads according to the American Society of Civil Engineers Standard 7 (ASCE 7). The criteria also highly recommend increasing the design map wind speed by 40 miles per hour. The Department also highly recommends the 40 mile per hour increase in map wind speed, especially if the EHPA is constructed with tall exterior walls, long span lightweight roof systems, wide roof overhangs, located in open areas with minimal sheltering, etc., which are particularly vulnerable to damage from severe winds.

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, etc., please see Appendix G. The Department also recommends two other useful sources of information which should be considered in

the EHPA design process: 1) the Department of Energy's (DOE) Standard *Natural Phenomena Hazards Design and Evaluation Criteria* (DOE-STD-1020), and 2) the Federal Emergency Management Agency's (FEMA) publication *Design and Construction Guidance for Community Shelters* (FEMA 361).

The Department recommends that SpNS's also meet the same hurricane safety criteria as general population shelters. That is, at a minimum, the designated SpNS should meet ARC 4496, and preferably meet the FBC's public shelter design criteria. However, findings from the 2004 hurricane season indicated 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

In the wake of the 2004 hurricane season, the Governor, the Department and its Division of Emergency Management and the Department of Health distributed 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). For further guidance, please see the following memorandum dated June 6, 2005:

http://www.floridadisaster.org/documents/Agwunobi-Fugate%20SpNS%206-7-2005.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 Department. **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 Department.**

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 Department. Cost of construction may be considered as a factor when selecting the facilities 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 determined to be "new construction," as defined in s. 1013.01(14), F.S. and s. 423.5.8, FBC; 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.

Between 1995 and 2000, there was a "three-mile exemption" for the EHPA criteria in Florida Statutes, whereby a board was only required to construct one facility to the criteria within any given three-mile radius. The exemption significantly impeded progress towards elimination of the safe public hurricane shelter space deficit through new school construction. Therefore, the Legislature eliminated the three-mile exemption in 2000.

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.

During initial development of the EHPA criteria, the concept of "core areas" was established to more cost effectively create usable hurricane shelter spaces during the design phase of a new educational facility (thus the term "Enhanced Hurricane Protection Area"). Under the EHPA concept, appropriate rooms and spaces that are required or useful for a hurricane shelter operation are concentrated into fewer more manageable areas, in some cases whole buildings, and in other cases portions of buildings. This permitted boards and their design professionals to reduce the amount of square footage required to meet the EHPA criteria, thus reducing construction costs, and at the same time providing emergency managers and shelter staff with a more manageable hurricane shelter environment.

When this concept was translated into statute and code language, the original language used the term "core facility area" instead of "core area." As with the three-mile exemption, interpretation of the statute and code to mean "core facility" could significantly impede progress towards elimination of the safe public hurricane shelter space deficit through new school construction. Therefore, to eliminate confusion and reinforce legislative intent, the Legislature eliminated the "core facility area" language from s. 1013.372, F.S. in 2001, and replaced it with "A facility, or an appropriate area within a facility" in Chapter 2002-387, Laws of Florida (pp 870 and 871).

For emergency management purposes, "core areas" are portions of a facility with defined boundaries, barriers or partitions that have been designated for use during an emergency. For hurricanes and other severe storms, occupant safety is the primary consideration, regardless of the normal educational purpose of the spaces. In addition to cafeterias and interior/inside circulation areas, appropriately designed and constructed gymnasiums, auditoriums and classrooms can be used as EHPA core areas. Also, media

centers and restrooms are normally excluded by emergency managers when calculating the hurricane shelter net usable floor area for occupant capacity purposes.

The EHPA requirement applies to School Infrastructure Thrift (SIT) award candidates. Section 1013.42(2), F.S. does not indicate that the EHPA requirement may be relaxed, and unless lawfully exempted, it is unlawful to construct a new educational facility without the EHPA criteria. The Department of Education has stated in memoranda DPBM No. 99-05 and DPBM No. 02-42 that boards may request cost waivers for statutory limitations on cost per student station, and deduct the additional cost directly associated with the EHPA from the total construction cost when applying for a SIT award.

1013.42 School Infrastructure Thrift (SIT) Program Act.--

(2) The School Infrastructure Thrift (SIT) Program is established within the Department of Education, and the State Board of Education may adopt rules as necessary to operate the program. To facilitate the program's purposes, the department shall aggressively seek the elimination or revision of obsolete, excessively restrictive, or unnecessary laws, rules, and regulations for the purpose of reducing the cost of constructing educational facilities and related costs without sacrificing safety or quality of construction. Such efforts must include, but are not limited to, the elimination of duplicate or overlapping inspections; the relaxation of requirements relating to the life cycle of buildings, landscaping, operable glazing, operable windows, radon testing, and firesafety when lawful, safe, and cost-beneficial; and other cost savings identified as lawful, safe, and cost-beneficial.

Both the Florida Statutes and the FBC 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 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 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 landfalling 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 (landfalling, 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 to 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.)

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 (sometimes in reportable quantities) 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 Department 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 Department 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 Certain 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, FBC, are exempt from compliance with the EHPA criteria.

However, remodeling projects are required to be brought into compliance with applicable codes. In certain circumstances, this may mean substantial alteration or replacement of a facility's structural systems. Given the magnitude of the hurricane shelter space deficit, it may be appropriate to incorporate the EHPA criteria during this type of remodeling project. In consultation with the applicable local emergency management agency, evaluate the benefits of incorporating the EHPA criteria into the remodeling project. The decision to incorporate the EHPA criteria will be dependent upon the magnitude of the county and regional hurricane shelter space deficit, quantity of hurricane shelter spaces to be created, local shelter demand and the availability of suitable alternatives (either in-place, or within the framework of a five-year plan.) Also, it must be determined if a statutory or code exemption would apply to the construction project, other than that the project is a remodeling of an existing facility.

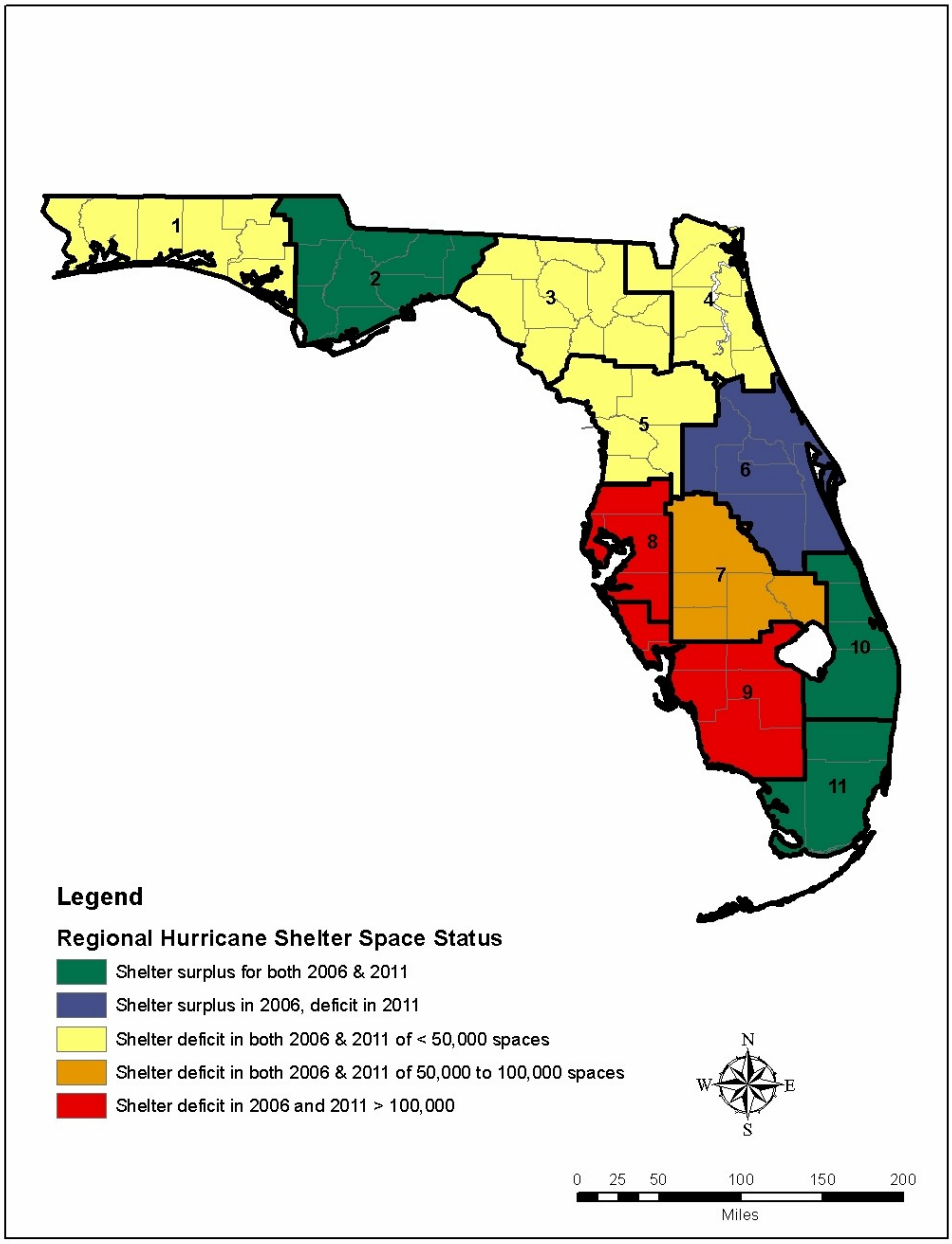
2.2.5 Regional Surplus of "Safe" Hurricane Shelter Space.

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, at this time only four (4) RPC regions have a surplus of hurricane shelter space in 2006: 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 2, 10 and 11 through 2011; RPC region 6 will experience a deficit in 2011, but only if there are no additional shelter capacity created. All other regions have hurricane shelter space deficits, and per section 1013.372(1), Florida Statutes, their 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 45 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.

Based upon s. 1013.372, F.S. and s. 423.25, FBC, the following procedures are recommended by the Department 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, and certain remodeling 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 must 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 Department. 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 Department 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 Department 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. Subsequently, Report No. 02-055 was published in 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 Department.

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.

Auditor General's Report No. 02-055 can be viewed at the following web address:

http://www.state.fl.us/audgen/pages/pdf_files/02-055.pdf

The Auditor General recommended that the Department of Community Affairs, in consultation with the 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.

DPBM No. 02-42 can also be viewed at the following web address:

http://www.firn.edu/doe/cefo/archivedmemos/dpbm01_memo/dpbm0242.htm

Since distribution of the Auditor General's report and the Department of Education's memorandum in 2001, the Department's Division of Emergency Management has taken additional steps to encourage compliance with the EHPA criteria through the emergency management community. As examples, 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 statutory Statewide Emergency Shelter Plan, 2004 edition 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 (e.g., National Hurricane Conference, Governor's Hurricane Conference, Florida Emergency Preparedness Association Meetings, etc.)

In preparation for the 2006 Plan, the Division again coordinated 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 2005. 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 Department has not granted an exemption, so any exemptions would have been local. The Division received about a 90 percent response rate from county emergency management offices. Table 2-1 provides a summary of the findings.

Table 2-1. Estimate of Local Compliance with EHPA Requirements

Description	Number of Bldgs	Net Square Feet
Total Number of New Buildings for Years 2000 to 2005	1708	50,718,368
Department Recognized EHPA Buildings	302	12,510,243
Local Emergency Management Exempted Buildings	269	7,327,606
New Buildings Located in Category 1, 2 or 3 Hurricane Evacuation Zones	296	8,691,039
Total Number of New Buildings that met Lawful Requirements	867	28,528,888
Total Number of New Buildings that did not meet Lawful Requirements	841	22,189,480
Percentage of New Buildings that Complied with the Law	51	56
Percentage of New Buildings that did not Comply with the Law	49	44
Potential EHPA Space Lost (50% required by Code)	---	11,094,740
Potential EHPA Net Square Feet Lost (average 65% usability factor)	---	7,211,581
Potential EHPA Spaces Lost (at Code required 20 square feet each)	---	360,579 spaces

The results are not encouraging. According to the FISH data, there were 1,708 new school buildings constructed between 2000 and 2005 with an estimated total net

usable floor area of 50,718,368 square feet. The Division recognizes 302 facilities (12,510,243 square feet) as EHPA's, and another 565 buildings (16,018,645 square feet) were lawfully exempt for statutory and code approved causes. Therefore, based on the data available, only about 867 of 1,708 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 22,189,480 square feet, or a non-compliance rate of about 44 percent. Based on this estimate, there was sufficient square footage in the non-compliant new buildings to have substantially reduced Florida's current statewide 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 are located 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 are provided for Hurricane Category 5 in Table 3-1 for Shelter Capacity, Shelter Demands, Shelter Surpluses/Deficits, and Capacity Results for 2006 and 2011 in number of persons. Region/County estimates are provided for Hurricane Category 5 in Table 3-2 for Shelter Capacity, Shelter Demands, Shelter Surpluses/Deficits, and Capacity Results for 2006 and 2011 in square feet.

Shelter Demand Sources/Results by County. County shelter demand estimates are provided for Storm Categories 4 and 5, and include shelter demand for 2006/2011, vulnerable populations, percentages of vulnerable populations, and sources (Hurricane Evacuation Studies), in Appendix J.

The 2006 and 2011 populations are estimates, based on county growth during the previous decade (1990-2000) from the *Florida Population: Census Summary 2000* as prepared by the Bureau of Economic and Business Research (BEBR) at the University of Florida. The Category 5 vulnerable populations from the Regional Hurricane Evacuation Studies were multiplied by the average annual percentage growth rate per county to derive a base growth rate. This figure was then multiplied by the applicable number of years between the year that the Hurricane Evacuation Study data was collected and the year 2006. To estimate the vulnerable population for 2011, the 2006 vulnerable population figure was increased based on the growth rate published in the 2004 BEBR. Finally, this figure was added to the original Category 4 and 5 Vulnerable Populations from the Regional Hurricane Evacuation Studies to derive an estimate corrected for both population growth and the age of the data.

Determining County Shelter Capacities. County shelter capacity data for all 67 counties were updated by local emergency management agencies throughout 2005, and also cross-referenced with the *2005 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. To provide an estimate of the existing hurricane shelter square footage, the total of each county's current shelter capacities (those that meet ARC 4496 standards) was multiplied by the 20 square feet per person (based on EHPA requirement of 20 square feet per person) for general population shelters, and where appropriate, 60 square feet for Persons with Special Needs (PSN).

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.

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.

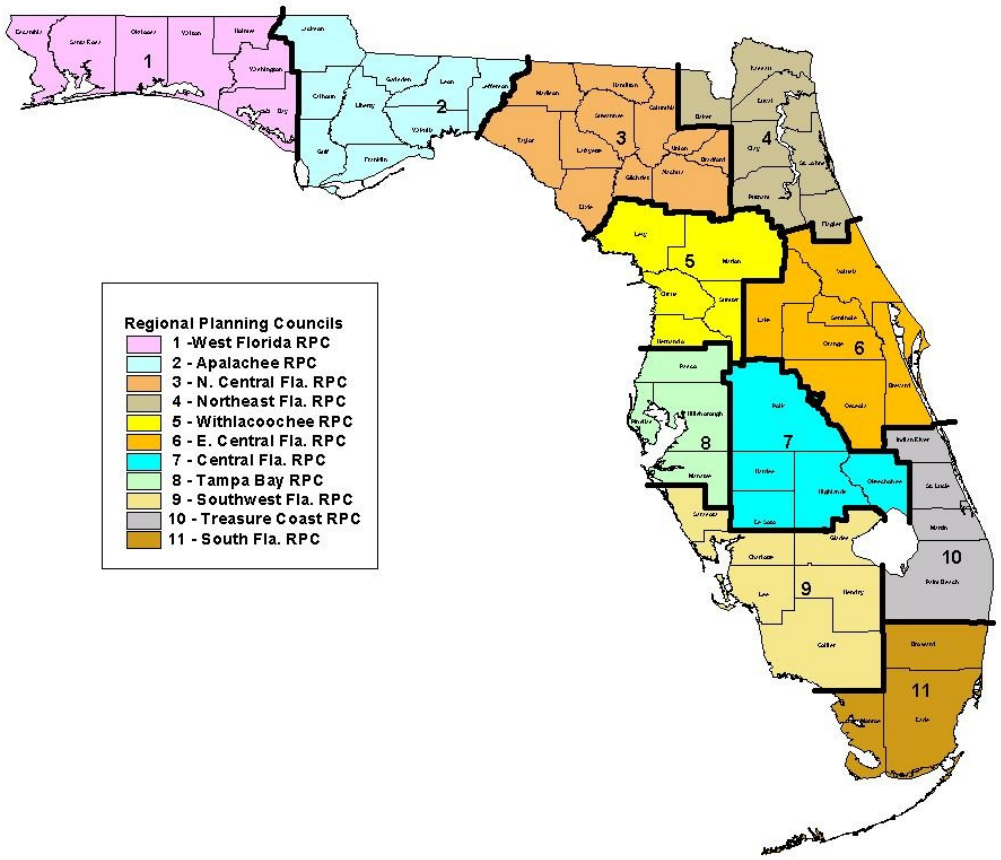
The hurricane evacuation studies conducted for all regions of Florida between 1988 and 2000 include shelter demand figures for each county. For this Plan, these data served as the basis for estimating the year 2006 and 2011 shelter demand numbers for Florida's coastal counties. The same methodology for projecting the vulnerable population to the year 2006 and 2011 was used to calculate the estimated shelter demand figures for those years.

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. The tables' columns provide the following information:

Region Number: This column sorts the listing of counties by Regional Planning Council (RPC) Regional Numbers. Figure 3-1 illustrates the RPC regions in Florida.

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



Shelter Demand in People and Square Footage: The General Shelter Population Demand figures for people and square footage are derived using the same methodology from the Category 5 Vulnerable Population. The Shelter Demand "In People" figure from the Regional Hurricane Evacuation Studies was multiplied by the sum of the average annual percentage growth times the applicable number of years between the year that the Hurricane Evacuation Study data was collected and the year 2006, and to estimate the 2011 vulnerable population, the 2006 vulnerable population was increased based on the applicable growth rate published in the 2004 BEBR. This figure was then added to the original Shelter Demand from the Regional Hurricane Evacuation Studies to derive an estimate corrected for both population growth and the age of the data.

The Shelter Demand in Square Footage was determined by multiplying the Shelter Demand In People by 20 square feet per person for each county. For Monroe County and the inland counties of the North Central and Withlacoochee RPC regions, the

most recent hurricane evacuation study did not provide a specific shelter demand figure. In those cases the shelter demand figures were determined by multiplying the applicable county's hurricane evacuation study derived vulnerable population figures by the public shelter use percentages developed in HMG's most recent behavioral survey for the county or region.

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 over the last two hurricane seasons 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.

Shelter Capacity: 2006 Risk Shelter Capacity figures for people and square footage were provided by each of the 67 county emergency management directors, and correlated with available information from county shelter surveys, and the construction of EHPAs at schools in each county. The figures were based on shelter capacity meeting/exceeding the ARC 4496 standards. Available general risk shelter capacity is based on 20 square feet of usable space per person. Available PSN risk shelter capacity is based on 60 square feet of usable space per person. Risk shelter capacity that is not yet verified through ARC 4496 surveys and/or EHPA construction is not included in this column, but is carried in each county shelter status in Appendix A under the column title: "Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)".

Shelter Surplus/Deficit In People and Square Footage: The 2006 Shelter Surplus/Deficit figures for In People and Square Footage is the difference between the Shelter Demand and the Shelter Capacity in both measurements. This data is provided as a quick reference to determine if the county is deficient in available Risk Capacity Shelter Space for both 2006 estimates and 2011 projections and is based on the Shelter Surplus/Deficit In People figure.

TABLE 3-1

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In People (estimated)	2011 Category 5 Shelter Demand In People (estimated)	2006 Risk Shelter Capacity In People	2006 Shelter Surplus/ Deficit In People	2011 Shelter Surplus/ Deficit In People	2006 Category 5 Shelter Demand In Clients (estimated)	2011 Category 5 Shelter Demand In Clients (estimated)	2006 Risk Shelter Capacity In Clients	2006 Shelter Surplus/ Deficit In Clients	2011 Shelter Surplus/ Deficit In Clients
1	BAY	15,682	16,603	13,320.00	(2,362)	(3,283)	762	944	300.00	(462)	(644)
1	ESCAMBIA	17,125	17,877	12,988.00	(4,137)	(4,889)	525	610	497.00	(28)	(113)
1	HOLMES	1,441	1,493	2,018.00	577	525	20	23	38.00	18	15
1	OKALOOSA	14,067	15,226	2,145.00	(11,922)	(13,081)	353	443	893.00	540	450
1	SANTA ROSA	9,221	10,472	4,636.00	(4,585)	(5,836)	150	197	377.00	227	180
1	WALTON	4,684	5,515	4,839.00	155	(676)	50	68	92.00	42	24
1	WASHINGTON	1,423	1,566	2,830.00	1,407	1,264	212	257	0.00	(212)	(257)
Region 1 Subtotals:		63,643	68,752	42,776	(20,867)	(25,976)	2,072	2,542	2,197	125	(345)
2	CALHOUN	1,340	1,398	0.00	(1,340)	(1,398)	55	63	0.00	(55)	(63)
2	FRANKLIN	1,011	944	0.00	(1,011)	(944)	10	12	0.00	(10)	(12)
2	GADSDEN	2,966	3,047	2,535.00	(431)	(512)	79	93	0.00	(79)	(93)
2	GULF	617	603	103.00	(514)	(500)	289	345	0.00	(289)	(345)
2	JACKSON	3,740	3,838	3,034.00	(706)	(804)	249	297	33.00	(216)	(264)
2	JEFFERSON	1,035	1,069	809.00	(226)	(260)	18	21	0.00	(18)	(21)
2	LEON	9,227	9,906	22,413.00	13,186	12,507	85	106	458.00	373	352
2	LIBERTY	895	935	1,150.00	255	215	20	24	0.00	(20)	(24)
2	WAKULLA	1,093	1,277	400.00	(693)	(877)	30	43	0.00	(30)	(43)
Region 2 Subtotals:		21,924	23,017	30,444	8,520	7,427	835	1,004	491	(344)	(513)
3	ALACHUA	9,651	10,355	8,445.00	(1,206)	(1,910)	252	309	200.00	(52)	(109)
3	BRADFORD	2,081	2,179	1,533.00	(548)	(646)	44	51	65.00	21	14
3	COLUMBIA	5,899	6,507	2,297.00	(3,602)	(4,210)	44	55	0.00	(44)	(55)

TABLE 3-1

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In People (estimated)	2011 Category 5 Shelter Demand In People (estimated)	2006 Risk Shelter Capacity In People	2006 Shelter Surplus/ Deficit In People	2011 Shelter Surplus/ Deficit In People	2006 Category 5 Shelter Demand In Clients (estimated)	2011 Category 5 Shelter Demand In Clients (estimated)	2006 Risk Shelter Capacity In Clients	2006 Shelter Surplus/ Deficit In Clients	2011 Shelter Surplus/ Deficit In Clients
3	DIXIE	2,782	3,030	2,051.00	(731)	(979)	90	112	84.00	(6)	(28)
3	GILCHRIST	2,173	2,448	3,243.00	1,070	795	35	47	102.00	67	55
3	HAMILTON	1,482	1,530	1,701.00	219	171	26	31	0.00	(26)	(31)
3	LAFAYETTE	932	980	328.00	(604)	(652)	5	6	0.00	(5)	(6)
3	MADISON	1,637	1,695	4,311.00	2,674	2,616	61	68	28.00	(33)	(40)
3	SUWANNEE	4,647	5,240	203.00	(4,444)	(5,037)	26	32	100.00	74	68
3	TAYLOR	2,322	2,453	2,424.00	102	(29)	11	13	0.00	(11)	(13)
3	UNION	1,233	1,306	1,251.00	18	(55)	35	45	45.00	10	0
Region 3 Subtotals:		34,839	37,723	27,787	(7,052)	(9,936)	629	769	624	(5)	(145)
4	BAKER	2,165	2,332	306.00	(1,859)	(2,026)	25	33	0.00	(25)	(33)
4	CLAY	10,726	12,174	4,562.00	(6,164)	(7,612)	158	217	98.00	(60)	(119)
4	DUVAL	33,171	35,537	19,130.00	(14,041)	(16,407)	496	604	998.00	502	394
4	FLAGLER	7,140	9,081	4,130.00	(3,010)	(4,951)	176	237	0.00	(176)	(237)
4	NASSAU	5,177	5,820	5,036.00	(141)	(784)	75	105	109.00	34	4
4	PUTNAM	9,539	9,914	1,071.00	(8,468)	(8,843)	95	105	0.00	(95)	(105)
4	ST.JOHNS	9,873	11,514	12,070.00	2,197	556	650	858	646.00	(4)	(212)
Region 4 Subtotals:		77,791	86,372	46,305	(31,486)	(40,067)	1,675	2,159	1,851	176	(308)
5	CITRUS	5,637	6,159	5,165.00	(472)	(994)	300	345	0.00	(300)	(345)
5	HERNANDO	16,227	17,925	4,457.00	(11,770)	(13,468)	289	329	391.00	102	62
5	LEVY	2,782	3,068	1,928.00	(854)	(1,140)	50	61	136.00	86	75
5	MARION	13,741	15,420	6,850.00	(6,891)	(8,570)	500	594	654.00	154	60
5	SUMTER	4,084	4,791	544.00	(3,540)	(4,247)	247	317	0.00	(247)	(317)

TABLE 3-1

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In People (estimated)	2011 Category 5 Shelter Demand In People (estimated)	2006 Risk Shelter Capacity In People	2006 Shelter Surplus/ Deficit In People	2011 Shelter Surplus/ Deficit In People	2006 Category 5 Shelter Demand In Clients (estimated)	2011 Category 5 Shelter Demand In Clients (estimated)	2006 Risk Shelter Capacity In Clients	2006 Shelter Surplus/ Deficit In Clients	2011 Shelter Surplus/ Deficit In Clients
Region 5 Subtotals:		42,471	47,363	18,944	(23,527)	(28,419)	1,386	1,646	1,181	(205)	(465)
6	BREVARD	17,536	18,907	29,316.00	11,780	10,409	1,200	1,422	1,840.00	640	418
6	LAKE	17,024	19,683	17,484.00	460	(2,199)	360	447	429.00	69	(18)
6	ORANGE	14,034	15,801	7,359.00	(6,675)	(8,442)	679	822	904.00	225	82
6	OSCEOLA	10,478	12,609	14,231.00	3,753	1,622	320	429	1,040.00	720	611
6	SEMINOLE	3,361	3,687	11,829.00	8,468	8,142	125	157	226.00	101	69
6	VOLUSIA	30,669	33,312	21,145.00	(9,524)	(12,167)	601	687	1,034.00	433	347
Region 6 Subtotals:		93,102	103,999	101,364	8,262	(2,635)	3,285	3,964	5,473	2,188	1,509
7	DESOTO	6,629	7,412	2,465.00	(4,164)	(4,947)	120	139	191.00	71	52
7	HARDEE	10,124	10,684	557.00	(9,567)	(10,127)	65	71	75.00	10	4
7	HIGHLANDS	23,059	24,930	2,103.00	(20,956)	(22,827)	150	165	0.00	(150)	(165)
7	OKEECHOBEE	19,696	20,780	2,939.00	(16,757)	(17,841)	125	137	66.00	(59)	(71)
7	POLK	42,086	45,724	42,193.00	107	(3,531)	1,112	1,287	0.00	(1,112)	(1,287)
Region 7 Subtotals:		101,594	109,530	50,257	(51,337)	(59,273)	1,572	1,799	332	(1,240)	(1,467)
8	HILLSBOROUGH	121,213	133,166	82,954.00	(38,259)	(50,212)	914	1,107	1,233.00	319	126
8	MANATEE	32,998	36,549	35,271.00	2,273	(1,278)	430	484	1,099.00	669	615
8	PASCO	53,224	59,184	23,988.00	(29,236)	(35,196)	783	882	1,172.00	389	290
8	PINELLAS	122,444	126,287	38,084.00	(84,360)	(88,203)	700	746	2,233.00	1,533	1,487
Region 8 Subtotals:		329,879	355,186	180,297	(149,582)	(174,889)	2,827	3,219	5,737	2,910	2,518
9	CHARLOTTE	46,705	51,556	3,127.00	(43,578)	(48,429)	204	231	0.00	(204)	(231)
9	COLLIER	49,736	58,923	21,385.00	(28,351)	(37,538)	534	680	1,362.00	828	682
9	GLADES	3,320	3,534	1,081.00	(2,239)	(2,453)	10	11	0.00	(10)	(11)

TABLE 3-1

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In People (estimated)	2011 Category 5 Shelter Demand In People (estimated)	2006 Risk Shelter Capacity In People	2006 Shelter Surplus/ Deficit In People	2011 Shelter Surplus/ Deficit In People	2006 Category 5 Shelter Demand In Clients (estimated)	2011 Category 5 Shelter Demand In Clients (estimated)	2006 Risk Shelter Capacity In Clients	2006 Shelter Surplus/ Deficit In Clients	2011 Shelter Surplus/ Deficit In Clients
9	HENDRY	4,734	5,211	6,149.00	1,415	938	20	23	54.00	34	31
9	LEE	108,769	124,368	34,188.00	(74,581)	(90,180)	388	470	0.00	(388)	(470)
9	SARASOTA	62,149	67,556	52,160.00	(9,989)	(15,396)	1,400	1,609	1,025.00	(375)	(584)
Region 9 Subtotals:		275,413	311,148	118,090	(157,323)	(193,058)	2,556	3,024	2,441	(115)	(583)
10	INDIAN RIVER	4,875	5,409	7,286.00	2,411	1,877	449	519	582.00	133	63
10	MARTIN	8,439	9,217	13,523.00	5,084	4,306	240	280	626.00	386	346
10	PALM BEACH	44,250	48,991	48,953.00	4,703	(38)	291	334	333.00	42	(1)
10	ST.LUCIE	6,436	7,246	15,035.00	8,599	7,789	593	710	666.00	73	(44)
Region 10 Subtotals:		64,000	70,863	84,797	20,797	13,934	1,573	1,843	2,207	634	364
11	BROWARD	31,199	33,989	37,135.00	5,936	3,146	265	297	2,665.00	2,400	2,368
11	MIAMI-DADE	58,129	61,922	86,511.00	28,382	24,589	500	565	1,332.00	832	767
11	MONROE	17,102	17,197	0.00	(17,102)	(17,197)	500	614	233.00	(267)	(381)
Region 11 Subtotals:		106,430	113,108	123,646	17,216	10,538	1,265	1,476	4,230	2,965	2,754
	Totals	1,211,086	1,327,061	824,707	(386,379)	(502,354)	19,675	23,445	26,764	7,089	3,319

TABLE 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In SF (estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF	2006 Category 5 Shelter Demand In SF(estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF
1	BAY	313,640	332,060	244,837	(68,803)	(87,223)	45,720	56,640	7,434	(38,286)	(49,206)
1	ESCAMBIA	342,500	357,540	253,766	(88,734)	(103,774)	31,500	36,600	26,212	(5,288)	(10,388)
1	HOLMES	28,820	29,860	38,170	9,350	8,310	1,200	1,380	2,280	1,080	900
1	OKALOOSA	281,340	304,520	35,427	(245,913)	(269,093)	21,180	26,580	53,556	32,376	26,976
1	SANTA ROSA	184,420	209,440	84,499	(99,921)	(124,941)	9,000	11,820	22,620	13,620	10,800
1	WALTON	93,680	110,300	103,077	9,397	(7,223)	3,000	4,080	5,502	2,502	1,422
1	WASHINGTON	28,460	31,320	63,562	35,102	32,242	12,720	15,420	0	(12,720)	(15,420)
Region 1 Subtotals:		1,272,860	1,375,040	823,338	(449,522)	(551,702)	124,320	152,520	117,604	(6,716)	(34,916)
2	CALHOUN	26,800	27,960	0	(26,800)	(27,960)	3,300	3,780	0	(3,300)	(3,780)
2	FRANKLIN	20,220	18,880	0	(20,220)	(18,880)	600	720	0	(600)	(720)
2	GADSDEN	59,320	60,940	46,192	(13,128)	(14,748)	4,740	5,580	0	(4,740)	(5,580)
2	GULF	12,340	12,060	2,667	(9,673)	(9,393)	17,340	20,700	0	(17,340)	(20,700)
2	JACKSON	74,800	76,760	58,021	(16,779)	(18,739)	14,940	17,820	1,980	(12,960)	(15,840)
2	JEFFERSON	20,700	21,380	14,790	(5,910)	(6,590)	1,080	1,260	0	(1,080)	(1,260)
2	LEON	184,540	198,120	362,379	177,839	164,259	5,100	6,360	27,520	22,420	21,160
2	LIBERTY	17,900	18,700	21,121	3,221	2,421	1,200	1,440	0	(1,200)	(1,440)
2	WAKULLA	21,860	25,540	6,711	(15,149)	(18,829)	1,800	2,580	0	(1,800)	(2,580)
Region 2 Subtotals:		438,480	460,340	511,881	73,401	51,541	50,100	60,240	29,500	(20,600)	(30,740)
3	ALACHUA	193,020	207,100	207,274	14,254	174	15,120	18,540	12,000	(3,120)	(6,540)
3	BRADFORD	41,620	43,580	24,289	(17,331)	(19,291)	2,640	3,060	4,888	2,248	1,828
3	COLUMBIA	117,980	130,140	44,185	(73,795)	(85,955)	2,640	3,300	0	(2,640)	(3,300)
3	DIXIE	55,640	60,600	44,204	(11,436)	(16,396)	5,400	6,720	5,019	(381)	(1,701)

TABLE 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In SF (estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF	2006 Category 5 Shelter Demand In SF(estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF
3	GILCHRIST	43,460	48,960	65,218	21,758	16,258	2,100	2,820	6,115	4,015	3,295
3	HAMILTON	29,640	30,600	33,120	3,480	2,520	1,560	1,860	0	(1,560)	(1,860)
3	LAFAYETTE	18,640	19,600	7,176	(11,464)	(12,424)	300	360	0	(300)	(360)
3	MADISON	32,740	33,900	64,806	32,066	30,906	3,660	4,080	1,680	(1,980)	(2,400)
3	SUWANNEE	92,940	104,800	4,067	(88,873)	(100,733)	1,560	1,920	6,000	4,440	4,080
3	TAYLOR	46,440	49,060	37,994	(8,446)	(11,066)	660	780	0	(660)	(780)
3	UNION	24,660	26,120	29,705	5,045	3,585	2,100	2,700	2,010	(90)	(690)
Region 3 Subtotals:		696,780	754,460	562,038	(134,742)	(192,422)	37,740	46,140	37,712	(28)	(8,428)
4	BAKER	43,300	46,640	6,120	(37,180)	(40,520)	1,500	1,980	0	(1,500)	(1,980)
4	CLAY	214,520	243,480	93,626	(120,894)	(149,854)	9,480	13,020	3,130	(6,350)	(9,890)
4	DUVAL	663,420	710,740	478,250	(185,170)	(232,490)	29,760	36,240	70,022	40,262	33,782
4	FLAGLER	142,800	181,620	75,863	(66,937)	(105,757)	10,560	14,220	0	(10,560)	(14,220)
4	NASSAU	103,540	116,400	92,959	(10,581)	(23,441)	4,500	6,300	5,618	1,118	(682)
4	PUTNAM	190,780	198,280	21,387	(169,393)	(176,893)	5,700	6,300	0	(5,700)	(6,300)
4	ST.JOHNS	197,460	230,280	251,872	54,412	21,592	39,000	51,480	38,760	(240)	(12,720)
Region 4 Subtotals:		1,555,820	1,727,440	1,020,077	(535,743)	(707,363)	100,500	129,540	117,530	17,030	(12,010)
5	CITRUS	112,740	123,180	91,394	(21,346)	(31,786)	18,000	20,700	0	(18,000)	(20,700)
5	HERNANDO	324,540	358,500	86,239	(238,301)	(272,261)	17,340	19,740	23,500	6,160	3,760
5	LEVY	55,640	61,360	26,242	(29,398)	(35,118)	3,000	3,660	8,209	5,209	4,549
5	MARION	274,820	308,400	205,073	(69,747)	(103,327)	30,000	35,640	39,233	9,233	3,593
5	SUMTER	81,680	95,820	9,549	(72,131)	(86,271)	14,820	19,020	0	(14,820)	(19,020)
Region 5 Subtotals:		849,420	947,260	418,497	(430,923)	(528,763)	83,160	98,760	70,942	(12,218)	(27,818)

TABLE 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In SF (estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF	2006 Category 5 Shelter Demand In SF(estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF
6	BREVARD	350,720	678,671	586,320	235,600	(92,351)	72,000	85,320	110,400	38,400	25,080
6	LAKE	340,480	393,660	352,195	11,715	(41,465)	21,600	26,820	21,101	(499)	(5,719)
6	ORANGE	280,680	316,020	267,393	(13,287)	(48,627)	40,740	49,320	66,216	25,476	16,896
6	OSCEOLA	209,560	252,180	310,301	100,741	58,121	19,200	25,740	84,960	65,760	59,220
6	SEMINOLE	67,220	73,740	208,014	140,794	134,274	7,500	9,420	16,958	9,458	7,538
6	VOLUSIA	613,380	666,240	453,663	(159,717)	(212,577)	36,060	41,220	52,824	16,764	11,604
Region 6 Subtotals:		1,862,040	2,380,511	2,177,886	315,846	(202,625)	197,100	237,840	352,459	155,359	114,619
7	DESOTO	132,580	148,240	47,102	(85,478)	(101,138)	7,200	8,340	11,460	4,260	3,120
7	HARDEE	202,480	213,680	7,784	(194,696)	(205,896)	3,900	4,260	4,500	600	240
7	HIGHLANDS	461,180	498,600	58,062	(403,118)	(440,538)	9,000	9,900	0	(9,000)	(9,900)
7	OKEECHOBEE	393,920	415,600	63,577	(330,343)	(352,023)	7,500	8,220	3,960	(3,540)	(4,260)
7	POLK	841,720	914,480	822,302	(19,418)	(92,178)	66,720	77,220	0	(66,720)	(77,220)
Region 7 Subtotals:		2,031,880	2,190,600	998,827	(1,033,053)	(1,191,773)	94,320	107,940	19,920	(74,400)	(88,020)
8	HILLSBOROUGH	2,424,260	2,663,320	1,651,331	(772,929)	(1,011,989)	54,840	66,420	73,980	19,140	7,560
8	MANATEE	659,960	730,980	722,502	62,542	(8,478)	25,800	29,040	65,898	40,098	36,858
8	PASCO	1,064,480	1,183,680	472,348	(592,132)	(711,332)	46,980	52,920	70,320	23,340	17,400
8	PINELLAS	2,448,880	2,525,740	814,990	(1,633,890)	(1,710,750)	42,000	44,760	133,980	91,980	89,220
Region 8 Subtotals:		6,597,580	7,103,720	3,661,171	(2,936,409)	(3,442,549)	169,620	193,140	344,178	174,558	151,038
9	CHARLOTTE	934,100	1,031,120	58,998	(875,102)	(972,122)	12,240	13,860	0	(12,240)	(13,860)
9	COLLIER	994,720	1,178,460	403,585	(591,135)	(774,875)	32,040	40,800	80,065	48,025	39,265
9	GLADES	66,400	70,680	21,762	(44,638)	(48,918)	600	660	0	(600)	(660)
9	HENDRY	94,680	104,220	114,816	20,136	10,596	1,200	1,380	3,244	2,044	1,864

TABLE 3-2

RPC Region #	County	General Population Shelter Demand/ Capacity					Special Needs Shelter Demand/ Capacity				
		2006 Category 5 Shelter Demand In SF (estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF	2006 Category 5 Shelter Demand In SF(estimated)	2011 Category 5 Shelter Demand In SF (estimated)	2006 Risk Shelter Capacity In SF	2006 Shelter Surplus/ Deficit In SF	2011 Shelter Surplus/ Deficit In SF
9	LEE	2,175,380	2,487,360	710,336	(1,465,044)	(1,777,024)	23,280	28,200	0	(23,280)	(28,200)
9	SARASOTA	1,242,980	1,351,120	951,494	(291,486)	(399,626)	84,000	96,540	61,500	(22,500)	(35,040)
Region 9 Subtotals:		5,508,260	6,222,960	2,260,991	(3,247,269)	(3,961,969)	153,360	181,440	144,809	(8,551)	(36,631)
10	INDIAN RIVER	97,500	108,180	246,985	149,485	138,805	26,940	31,140	34,920	7,980	3,780
10	MARTIN	168,780	184,340	304,774	135,994	120,434	14,400	16,800	37,537	23,137	20,737
10	PALM BEACH	885,000	979,820	1,222,405	337,405	242,585	17,460	20,040	19,980	2,520	(60)
10	ST.LUCIE	128,720	144,920	354,338	225,618	209,418	35,580	42,600	41,161	5,581	(1,439)
Region 10 Subtotals:		1,280,000	1,417,260	2,128,502	848,502	711,242	94,380	110,580	133,598	39,218	23,018
11	BROWARD	623,980	679,780	1,330,956	706,976	651,176	15,900	17,820	133,349	117,449	115,529
11	MIAMI-DADE	1,162,580	1,238,440	1,727,413	564,833	488,973	30,000	33,900	79,920	49,920	46,020
11	MONROE	342,040	343,940	0	(342,040)	(343,940)	30,000	36,840	13,980	(16,020)	(22,860)
Region 11 Subtotals:		2,128,600	2,262,160	3,058,369	929,769	796,209	75,900	88,560	227,249	151,349	138,689
	Totals	24,221,720	26,841,751	17,621,577	(6,600,143)	(9,220,174)	1,180,500	1,406,700	1,595,501	415,001	188,801

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. 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 Department.

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 and a quarter (1¼) percent of current public shelter capacity. Community colleges are regionally distributed, and potentially located in areas with high demands for public hurricane shelter space. Also 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, per s. 1002.33(18), F.S., charter schools are required 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). It is the opinion of the Department, in consultation with the Department of Education, that new charter school facilities that either select or are subject to section 423, FBC, are subject 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 s. 1013.01(14), F.S. or s. 423.5.8, FBC; 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 (e.g., 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 Department. 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 one and a half (1½) 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 agencies. Therefore, s. 1013.372(2), F.S. requires that the Department recommend an appropriate and available source of funding for the additional cost of constructing emergency shelters. There is no dedicated state source of funding to support construction of EHPA's, so the Department 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. Therefore, the Department recommends PECO funds, which 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 2005/06. 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 nine (9) years that the EHPA has been a code requirement. The average PECO funds distributed per EHPA space created is about $4,598; school boards with comparison values near or below this average were more productive than those that were significantly higher than the average or zero (0).

Table 5-1. Estimate of PECO Funds Distributed to School Districts 1997 – 2006 Comparison to EHPA Spaces Created

County	New Construction PECO Funds, $	Cumulative EHPA Spaces @ 20 sf each	Ratio of PECO Funds Received to EHPA Spaces Built, $
Alachua	$9,690,027	250	$38,760
Baker	$1,448,893	306	$4,735
Bay	$9,034,582	900*	$10,038
Bradford	$1,457,861	0	$0
Brevard	$29,050,741	9,602*	$3,025
Broward	$163,261,497	45,130*	$3,618
Calhoun	$767,869	0	$0
Charlotte	$9,350,046	0	$0
Citrus	$6,005,604	415	$14,471

Table 5-1. Estimate of PECO Funds Distributed to School Districts 1997 – 2006 Comparison to EHPA Spaces Created

County	New Construction PECO Funds, $	Cumulative EHPA Spaces @ 20 sf each	Ratio of PECO Funds Received to EHPA Spaces Built, $
Clay	$17,819,886	1,834	$9,716
Collier	$30,498,161	12,919*	$2,361
Columbia	$3,496,212	2,297	$1,522
DeSoto	$1,611,542	0	$0
Dixie	$780,211	252*	$3,096
Duval	$39,997,770	5,654*	$7,074
Escambia	$13,399,452	1,349	$9,933
Flagler	$7,091,880	650	$10,911
Franklin	$405,961	0	$0
Gadsden	$1,951,392	2,535	$770
Gilchrist	$1,161,774	0	$0
Glades	$629,208	594	$1,059
Gulf	$935,677	103	$9,084
Hamilton	$556,748	1,200	$464
Hardee	$1,776,872	557	$3,190
Hendry	$3,000,638	1,000	$3,001
Hernando	$11,397,771	2,779	$4,101
Highlands	$4,500,322	967	$4,654
Hillsborough	$104,365,159	45,147	$2,312
Holmes	$1,034,954	1,953*	$530
Indian River	$7,299,163	0	$0
Jackson	$2,410,692	2,237*	$1,078
Jefferson	$493,585	809	$610
Lafayette	$376,901	0	$0
Lake	$22,531,565	17,005*	$1,325
Lee	$37,586,319	9,659	$3,891
Leon	$9,844,345	0	$0
Levy	$2,431,298	0	$0
Liberty	$429,633	548	$784
Madison	$992,571	0	$0
Manatee	$22,463,276	25,307*	$888
Marion	$23,729,139	2,629*	$9,026
Martin	$9,298,575	4,900	$1,898
Miami-Dade	$146,192,150	14,553	$10,045
Monroe	$2,571,913	0	$0
Nassau	$4,691,632	5,129	$915
Okaloosa	$8,096,029	0	$0
Okeechobee	$2,657,283	1,011	$2,628
Orange	$106,236,979	7,142*	$14,875
Osceola	$33,802,545	5,076*	$6,659

Table 5-1. Estimate of PECO Funds Distributed to School Districts 1997 – 2006 Comparison to EHPA Spaces Created

County	New Construction PECO Funds, $	Cumulative EHPA Spaces @ 20 sf each	Ratio of PECO Funds Received to EHPA Spaces Built, $
Palm Beach	$101,864,036	44,366	$2,296
Pasco	$37,506,270	8,354*	$4,490
Pinellas	$50,448,591	17,133*	$2,945
Polk	$36,883,342	40,238	$917
Putnam	$4,006,792	811	$4,941
St. Johns	$18,735,810	8,241*	$2,273
St. Lucie	$18,125,598	3,890	$4,660
Santa Rosa	$12,945,154	352	$36,776
Sarasota	$25,293,668	31,031*	$815
Seminole	$32,147,894	0	$0
Sumter	$2,039,377	200	$10,197
Suwannee	$1,785,388	203*	$8,795
Taylor	$1,292,312	2,424	$533
Union	$743,276	447*	$1,663
Volusia	$26,346,092	7,965*	$3,308
Wakulla	$2,543,481	400	$6,359
Walton	$2,929,272	1,258	$2,329
Washington	$1,793,718	153	$11,724
Statewide Total	**$1,298,044,374**	**402,864**	**$4,598**

* - 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: $4,598 is an average of the ratios.

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. As an 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 normally "available" for most new construction projects, since its grant cycles are often associated with disaster declarations. 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.

5.4 Global Match Considerations

Global match is the pooling of multi-agency investments and resources to achieve a common goal. By agreement with the Federal Emergency Management Agency, Florida can pool state and local expenditures for improved hurricane-resistance of facilities to use as non-federal cost-share for HMGP projects.

Documented construction cost premiums of EHPA projects, that exceed minimum hurricane-resistance code requirements, can be used by the board and state and local emergency management agencies as non-federal cost-share (or match) for HMGP funded projects. As an example, the documented construction cost premium to increase the design wind speed of a new school facility by the code recommended 40 miles per hour is $300,000. Assuming the new school facility project meets other HMGP programmatic requirements (e.g., eligibility, benefit-cost, etc.), the $300,000 can be used as the state and local match to support other hurricane-resistance retrofit projects; such as, installing window protection on another facility that can be used as a public hurricane shelter.

Since 1999, global match has been used to create an estimated 179,200 public hurricane shelter spaces through retrofitting. The Department requests that boards document the construction cost premium of EHPA construction projects, and forward the information to the local emergency management agency and the Division. The documentation must specifically separate hurricane-resistance mitigation construction costs from other non-mitigation costs. As an example, the cost premium due to installation of heavier roof joists at a closer spacing is eligible, but installing additional toilets is not eligible.

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. 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 facilities to increase shelter capacity; 3) construction of new facilities to meet the EHPA 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 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, legislation in s. 235.26(9)(a), F.S. (superseded by 1013.372(1), F.S.) 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, and it is 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.

The 1999 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 Department 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. The 2000 Legislature followed-up with 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 Hurricanes Floyd and Irene federal HMGP declaration, which were earmarked to support the state's effort to reduce the deficit of hurricane shelter space. Since 2000, subsequent Legislatures have appropriated more than $16 million in additional state funds to support projects recommended in subsequent *Shelter Retrofit Reports*. These appropriations have created about an additional 92,867 hurricane shelter spaces.

The *2005 Shelter Retrofit Report* can provide additional information concerning Florida's hurricane shelter survey and retrofit program. The *2005 Shelter Retrofit Report* can be viewed at the following web address:

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

Since 1995, through federal, state, and local retrofitting of suitable facilities, Florida has created a total of 435,433 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 fifty-one (51) 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 376,699 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-four (44) 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.

Cumulatively, since 1995, the Division's hurricane shelter survey and retrofit program has directly or indirectly led to identification or creation of about 474,772 hurricane shelter spaces that meet ARC 4496 guidelines. The EHPA construction program has created about 376,699 hurricane shelter spaces. Therefore, by the 2006 hurricane season, Florida will have a total of about 851,471 shelter spaces that meet ARC 4496 guidelines.

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
ALACHUA	**0**	**250**	**8,195**	8,445
BAKER	0	306	0	306
BAY	0	0	13,320	13,320
BRADFORD	0	0	1,533	1,533
BREVARD	1,103	6,779	21,434	29,316
BROWARD	0	37,135	0	37,135
CALHOUN	0	0	0	0
CHARLOTTE	0	0	3,127	3,127
CITRUS	252	415	4,498	5,165
CLAY	0	1,834	2,728	4,562
COLLIER	0	10,708	10,677	21,385
COLUMBIA	0	2,297	0	2,297
DESOTO	0	0	2,465	2,465
DIXIE	0	0	2,051	2,051
DUVAL	0	5,309	13,821	19,130
ESCAMBIA	254	1,349	11,385	12,988
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	594	487	1,081
GULF	0	103	0	103
HAMILTON	0	1,200	501	1,701
HARDEE	0	557	0	557
HENDRY	939	1,000	4,210	6,149
HERNANDO	0	2,779	1,678	4,457
HIGHLANDS	1,136	967	0	2,103
HILLSBOROUGH	1,766	45,147	36,041	82,954
HOLMES	0	1,839	179	2,018
INDIAN RIVER	75	0	7,211	7,286
JACKSON	0	2,138	896	3,034
JEFFERSON	0	809	0	809

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
LAFAYETTE	0	0	328	328
LAKE	0	15,718	1,766	17,484
LEE	9,933	9,659	14,596	34,188
LEON	822	517	21,074	22,413
LEVY	241	0	1,687	1,928
LIBERTY	0	548	602	1,150
MADISON	0	0	4,311	4,311
MANATEE	0	17,405	17,866	35,271
MARION	0	1,885	4,965	6,850
MARTIN	3,821	4,900	4,802	13,523
MIAMI-DADE	0	14,553	71,958	86,511
MONROE	0	0	0	0
NASSAU	0	4,802	234	5,036
OKALOOSA	166	0	1,979	2,145
OKEECHOBEE	0	1,011	1,928	2,939
ORANGE	1,802	5,228	329	7,359
OSCEOLA	0	2,454	11,777	14,231
PALM BEACH	0	44,366	4,587	48,953
PASCO	0	6,854	17,134	23,988
PINELLAS	8,638	14,133	15,313	38,084
POLK	1,007	40,238	948	42,193
PUTNAM	0	811	260	1,071
SANTA ROSA	597	352	3,687	4,636
SARASOTA	0	29,531	22,629	52,160
SEMINOLE	0	1,000	10,829	11,829
ST.JOHNS	0	6,741	5,329	12,070
ST.LUCIE	3,584	2,888	8,563	15,035
SUMTER	0	200	344	544
SUWANNEE	0	203	0	203
TAYLOR	0	2,424	0	2,424
UNION	0	312	939	1,251
VOLUSIA	268	5,775	15,102	21,145
WAKULLA	0	400	0	400
WALTON	1,258	1,258	2,323	4,839
WASHINGTON	0	153	2,677	2,830
Totals- General Pop	**39,339**	**363,019**	**422,349**	**824,707**
Totals SpNS	**0**	**13,680**	**13,084**	**26,764**
Grand Total	**39,339**	**376,699**	**435,433**	**851,471**

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 a 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 can provide an example of relatively low public shelter use. Though none of the storms made landfall as a Category 5, 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 15 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.

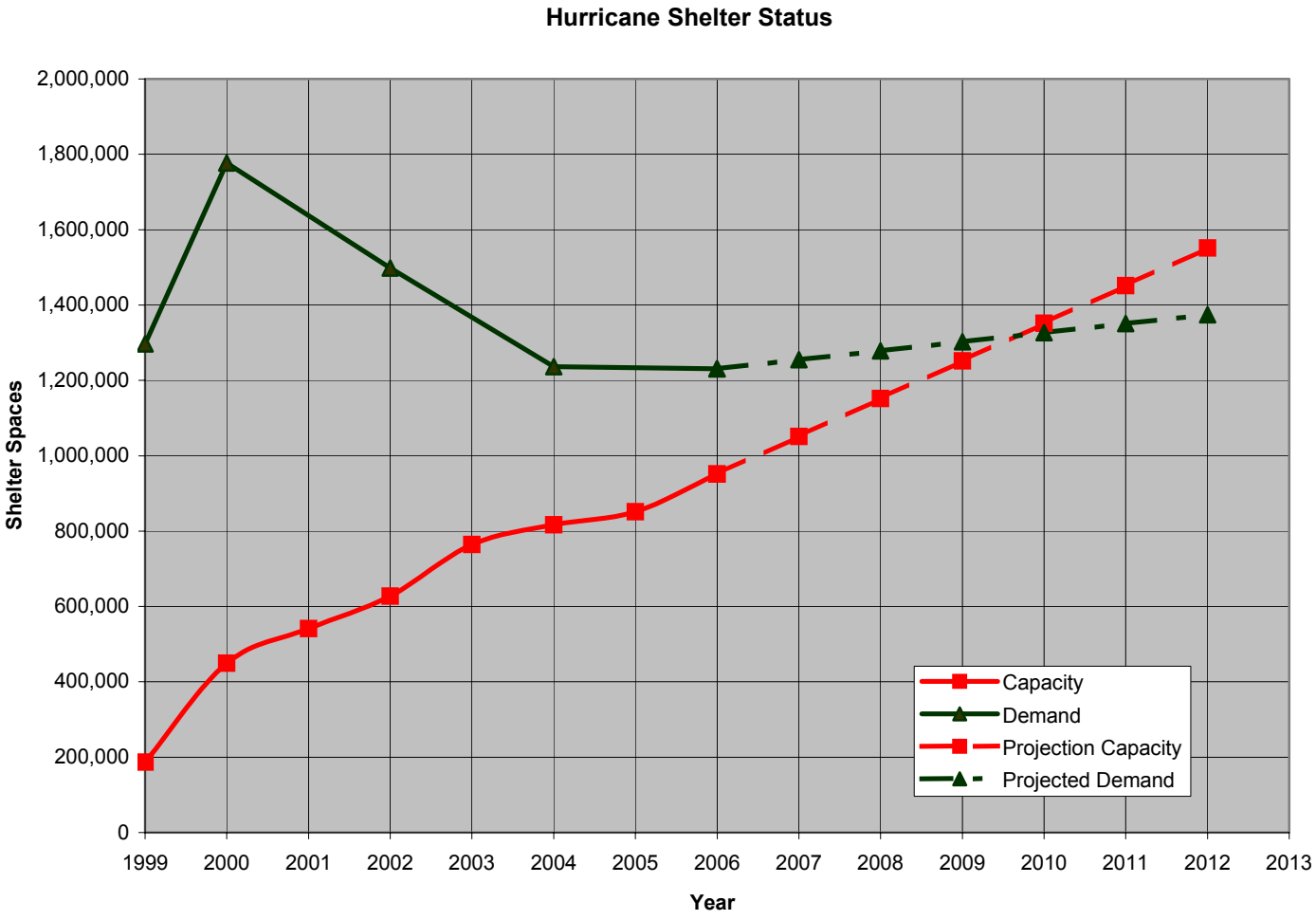
The Department has also developed a public information program to compliment the other hurricane shelter deficit reduction efforts. The Department educates residents on the hazards they face and how to best deal with them. A key issue is whether or not to evacuate and, if so, to where. Education on the 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.

Significant progress has been made toward eliminating Florida's deficit of public hurricane shelter space. 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 Brevard, Broward, Gilchrist, Hamilton, Hendry, Holmes, Indian River, Lake, Leon, Liberty, Madison, Manatee, Martin, Miami-Dade, Palm Beach, Osceola, St. Johns, St. Lucie, Seminole, Taylor, Union, Walton, and Washington. Also, four regions have a demonstrable surplus of hurricane shelter space. Since 1995, Florida has reduced its hurricane shelter space deficit by about 74 percent.

As can be seen in Figure 6-1, the Department can now make a realistic estimate as to when the hurricane shelter space deficit may be eliminated. Based upon a cursory analysis of FISH inventory data, the Department found that about 42 million square feet of potentially suitable shelter space was constructed between 2000 and 2005. This quantity of square footage could potentially create as many as 683,000 new hurricane shelter spaces. Assuming that this is an average rate of construction, new construction could create about 113,000 EHPA spaces per year. Section 215.559(2)(b), F.S., directs an annual appropriation of $3 million to the Department for shelter retrofit projects. This level of funding is estimated to create an average of about 25,000 retrofitted hurricane shelter spaces per year. The following graph assumes a 25,000-space increase per year via $3 million in state retrofit funds, and a 75,000-space increase per year via other sources (primarily EHPA's). Together, this will create a combined 100,000 hurricane shelter spaces per year that meet ARC 4496. The Department estimates that by 2010, the state's deficit of hurricane shelter spaces may be eliminated.

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. Subsequently, 1013.372(2), Florida Statutes, requires that the Department of Community Affairs submit to the Governor and Cabinet for approval, every two years, 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 2006 Plan shows significant progress in reducing the deficit of "safe" public hurricane shelter space in Florida. Since 1995, more than 851,471 hurricane shelter spaces have been identified, created through retrofitting of existing buildings, or through new construction (e.g., EHPAs). In the 2000 Plan, the estimated shelter demand was 1,776,606 spaces. Through more accurate mapping of coastlines in certain counties (i.e., LIDAR mapping) and other improved topographic survey techniques, which reduced evacuation zones, and through improved shelter demand studies, the estimated public hurricane shelter demand has been reduced to 1,230,761 spaces for 2006. This is so, despite an increasing state population. Thus the overall state public hurricane shelter deficit has been reduced from 1,501,931 spaces in 2000, to 386,379 general population spaces in 2006 and a small surplus of special needs shelter spaces. This is nearly a 75 percent reduction in the statewide hurricane shelter space deficit.

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 Brevard, Broward, Gilchrist, Hamilton, Hendry, Holmes, Indian River, Lake, Leon, Liberty, Madison, Manatee, Martin, Miami-Dade, Palm Beach, Osceola, St. Johns, St. Lucie, Seminole, Taylor, Union, Walton, and Washington. Also, four regions have a demonstrable surplus of hurricane shelter space.

For the future, preliminary estimates indicate that, if the current rate of shelter space production is maintained, that the public hurricane shelter deficit will be eliminated by 2010. However, the state population is increasing yearly, and over time, current designated hurricane shelter buildings will 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

Revisions sheet for 2006 Statewide Emergency Shelter Plan, January 31, 2006- 30April 2006 revision.

Swap out the following attached pages; ii, iii, v, vi, 3-5 thru 3-10, 5-1 thru 5-3, 6-2 thru 6-7, page 7-1, and Appendix A.

These new pages incorporate the following changes:

Page ii - new Table EX-1
Page iii - first paragraph – 'change only four' (4) to 'only five (5)'
Page v - 2nd paragraph- 2nd line- change to 474,772 hurricane shelter spaces
4th line- change to 376,699 hurricane shelter spaces
5th line- change to 851,471 shelter spaces

3rd paragraph- 2nd line- change 21 to 23
4th line- delete "Polk"
5th line- add "St. Lucie" and add "Union", and add "Manatee"

Page vi- replace chart

Page 3-5 thru 3-10- replace charts

Page 5-1 thru 5-3: replace Table 5-1
Page 5-13rd paragraph 8th line- change $4,602 to $4,598

Page 6-3 thru 6-5: replace chart 6-1

Page 6-6: 3rd paragraph 3rd line- change "21" to "223"
7th line- delete "Polk" and add "St. Lucie" and "Union" and "Manatee"
Last line- change "75 percent" to "74 percent"

Page 6-2: 5th paragraph 2nd line- change to "435,433" public hurricane spaces
Last paragraph 3rd line- change to "376,699" EHPA shelters
5th line- change "fifty-three (53)" to "fifty-one (51)"
last line-change "43" to "44"

Page 6-3: 2nd paragraph 2nd line- change to "474,772" hurricane shelter spaces
4th line- change to "376,699" hurricane shelter spaces, change "2004" to "2006" hurricane season.
5th line- change to "851,471",

Page 6-7: replace chart

Page 7-1: 2nd paragraph- 2nd line- change to "851,471"
11th line- change to "386,379"

3rd paragraph- 2nd line – change "21" to "23"
5th line – delete "Polk", add "St. Lucie" and "Union" and "Manatee"

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ALACHUA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Alachua Elementary -	Bldg 6	13800 NW 152 Place	Alchua	32615	125	0	0	91	125
Archer Community	Bldg 6/ Cafeteria	14533 SW 170 Street	Archer	32618	260				
Bishop Middle -	Bldg. 1/Hall	1901 NE 9th Street	Gainesville	32609	0	0	0	37	
Bishop Middle -	Bldg. 19/Gym	1901 NE 9th Street	Gainesville	32609	270	0	0	0	
Bishop Middle -	Bldg. 21/Hall	1901 NE 9th Street	Gainesville	32609	0	0	0	28	
Buchholz High -	Bldg 8	5510 NW 27th Avenue	Gainesville	32606	0	462	15,569	0	462
Buchholz High -	Bldg 9	5510 NW 27th Avenue	Gainesville	32606		270	9,484		270
Buchholz High -	Bldg. 5/Gym	5510 NW 27th Avenue	Gainesville	32606	394	0	0	0	
Eastside High	Bldg 15	1201 SE 45th Terrace	Gainesville	32641	0	501	16,719		501
Eastside High	Bldg 9	1201 SE 45th Terrace	Gainesville	32641	0	336	11,490	73	336
Eastside High -	Bldg. 7/Gym	1201 SE 45th Terrace	Gainesville	32641	394	0	0	0	
Fort Clarke Middle -	Bldg. 2/Gym	9301 NW 23rd Avenue	Gainesville	32606	297	0	0	0	
Gainesville High -	Bldg. 15/Gym	1900 NW 13th Street	Gainesville	32609	464	0	0	0	
Gainesville High -	Bldg. 22/Halls	1900 NW 13th Street	Gainesville	32609	0	0	0	58	
Hawthorne High -	Bldg. 2/Gym	602 W Lake Avenue	Hawthorne	32640	311	0	0	0	
Hidden Oak Elementary -	Bldg. 1/Halls	9205 NW 23rd Avenue	Gainesville	32606	0	0	0	173	
High Springs Elementary -	Bldg. 4/Halls	1015 N Main Street	High Springs	32643	0	0	0	116	
High Springs Elementary -	Bldg. 5/Halls	1015 N Main Street	High Springs	32643	0	0	0	48	
Idylwild Elementary -	Bldg. 14/Halls	4601 SW 20th Terrace	Gainesville	32608	0	0	0	32	
Irby Elementary -	Bldg. 1/Halls	1349 SE 1st Street	Alachua	32601	0	0	0	258	
Irby Elementary -	Bldg. 2/Halls	1349 SE 1st Street	Alachua	32601	0	0	0	266	
Irby Elementary -	Bldg. 3/Halls	1349 SE 1st Street	Alachua	32601	0	0	0	247	
Kanapaha Middle	Bldg 3	5005 SW 75th Street	Gainesville	32608	0	405	10,200	115	405
Kanapaha Middle	Bldg 4	5005 SW 75th Street	Gainesville	32608	0	407	10,238	115	407
Kanapaha Middle	Bldg 7	5005 SW 75th Street	Gainesville	32608	0	405	6,795	115	405
Kanapaha Middle	Bldg 9	5005 SW 75th Street	Gainesville	32608	0	407	9,655	115	407
Kanapaha Middle	Bldg. 3/Halls	5005 SW 75th Street	Gainesville	32608	0	0	0	115	
Kanapaha Middle	Bldg. 4/Halls	5005 SW 75th Street	Gainesville	32608	0	0	0	115	
Kanapaha Middle	Bldg. 5/Gym	5005 SW 75th Street	Gainesville	32608	295	0	0	0	
Kanapaha Middle	Bldg. 6/Cafeteria	5005 SW 75th Street	Gainesville	32608	0	0	0	158	
Kanapaha Middle	Bldg. 7/Halls	5005 SW 75th Street	Gainesville	32608	0	0	0	115	
Kanapaha Middle	Bldg. 9/Halls	5005 SW 75th Street	Gainesville	32608	0	0	0	115	
Lake Forest Elementary -	Bldg. 1/Halls	427 SE 43rd Street	Gainesville	32641	0	0	0	38	
Lawton Chiles Elementary	Bldg. 1/Halls	2525 house Road	Gainesville	32607	0	0	0	258	
Lawton Chiles Elementary	Bldg. 2/Halls	2525 house Road	Gainesville	32607	0	0	0	266	
Lawton Chiles Elementary	Bldg. 3/Halls	2525 house Road	Gainesville	32607	0	0	0	247	
Lincoln Middle -	Bldg. 1/Halls/Gym	1001 SE 12th Street	Gainesville	32641	484	0	0	0	
Littlewood Elementary -	Bldg. 12/Halls	427 SE 43rd Street	Gainesville	32605	0	0	0	25	
Mebane Middle -	Bldg. 7/Gym	1335 NE 1st Street	Alachua	32615	362	0	0	0	
Newberry High -	Bldg. 2/Gym	645 SW 9th Avenue	Newberry	32669	333	0	0	0	
Norton Elementary -	Bldg. 2/Halls	2200 NW 45th Avenue	Gainesville	32605	0	0	0	266	
Norton Elementary -	Bldg. 3/Halls	2200 NW 45th Avenue	Gainesville	32605	0	0	0	247	
Oakview Middle -	Bldg 3	701 N Main Street	Newberry	32669	0	405	9,213	115	405
Oakview Middle -	Bldg 4	701 N Main Street	Newberry	32669	0	405	10,216	115	405

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Oakview Middle -	Bldg. 3/Halls	701 N Main Street	Newberry	32669	0	0	0	115	
Oakview Middle -	Bldg. 4/Halls	701 N Main Street	Newberry	32669	0	0	0	115	
Oakview Middle -	Bldg. 5/Halls/Gym	701 N Main Street	Newberry	32669	310	0	0	0	
Prairie View Elementary -	Bldg. 3/Halls	1801 SE 32nd Place	Gainesville	32641	0	0	0	230	
Santa Fe High -	Bldg. 12/ Gym	US Hwy. 441	Alachua	32615	340	0	0	0	
Spring Hill Middle -	Bldg. 10/ Gym	1015 N Main Street	Gainesville	32643	280	0	0	0	
Talbot Elementary	bldg 1	5701 NW 3rd Str	Gainesville	32608		434	11,695	0	434
Talbot Elementary	Bldg 2	5701 NW 3rd Str	Gainesville	32608		511	12,500	0	511
Talbot Elementary	Bldg 3	5701 NW 3rd Str	Gainesville	32608		172	2,000	0	172
Terwilliger Elementary -	Bldg. 4/Halls	3001 NW 62nd Street	Gainesville	32607	0	0	0	70	
Terwilliger Elementary -	Bldg. 5/Halls	3001 NW 62nd Street	Gainesville	32607	0	0	0	38	
University of Fl.orida SW Rec	Bldg 316	Building 316	Gainesville	32607	0	2,375	47,500	0	2,375
University of Florida	Reitz Union	Building 686	Gainesville	32607	2,900	700	14,000	0	700
Westwood Middle -	Bldg. 16/Gym	3215 NW 15th Avenue	Gainesville	32605	269	0	0	0	
Westwood Middle -	Cafeteria	3215 NW 15th Avenue	Gainesville	32605		250	10,000		250
Wiles Elementary -	Bldg. 1/ Halls	4601 SW 75th Street	Gainesville	32608	0	0	0	288	
Wiles Elementary -	Bldg. 2/ Halls	4601 SW 75th Street	Gainesville	32608	0	0	0	203	
Wiles Elementary -	Bldg. 5/ Halls	4601 SW 75th Street	Gainesville	32608	0	0	0	247	
				TOTALS FOR ALACHUA COUNTY	**8,088**	**8,445**	**207,274**	**5,388**	**8,570**

Year 2006	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	8,445	9651	-1,206	207,274	193,020	14,254	DEFICIT	

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)	
Westwood Middle School	Bldg 10/ Gym	3215 NW 15th Avenue	Gainesville	32605	No	200	12,000		200

Year 2006	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	200	252	-52	12,000	15,120	-3,120	DEFICIT	

2006 Statewide Emergency Shelter Plan

BAKER

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
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	
Westside Elementary		1 Pather Circle	Glen St. Mary	32040		0	0		
New Macclenny Elementary	cafeteria	1 Wildkitten Drive	Macclenny	32063	295	306	6,120	295	306
						0	0		
				Totals for Baker County	**1,645**	**306**	**6,120**	**1,645**	**306**

Year 2006	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	306	2165	-1,859	6,120	43,300	-37,180	DEFICIT	

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)
None						0	0	0	

Year 2006	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	25	-25	0	1,500	-1,500	DEFICIT	

2006 Statewide Emergency Shelter Plan

BAY

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (capacity reported)
A. Crawford Mosely High School		501 Mosley Drive	Lynn Haven	32444	3,130	0	0	0	
Bay Haven Charter Academy		922 Harrison Avenue	Panama City	32401		0	0	0	
Bay High School		1204 Harrison Avenue	Panama City	32405	1,979	0	0		
Bay HS	7	1204 Harrison Avenue	Panama City	32405		967	19,340	237	967
Bozeman Learning Center	1	13410 Highway 77	Southport	32409		267	5,340	0	267
Bozeman Learning Center	2	13410 Highway 77	Southport	32409		587	11,740	0	587
Bozeman Learning Center	3	13410 Highway 77	Southport	32409		641	12,820	1,492	641
Bozeman Learning Center	4	13410 Highway 77	Southport	32409		580	11,600		580
Bozeman Learning Center	5	13410 Highway 77	Southport	32409		686	13,720		686
Bozeman Learning Center	6	13410 Highway 77	Southport	32409		604	12,080		604
Bozeman Learning Center	7	13410 Highway 77	Southport	32409		826	16,520		826
Bozeman Learning Center K-8	8 (Gym)	13410 Highway 77	Southport	32409		0	0		
Bozeman Learning Center K-8	9 (Dining)	13410 Highway 77	Southport	32409		0	0		
Callaway Elementary School		7115 State Road 22	Callaway	32404	972	0	0		
Cedar Grove ES	12	2826 East 15th Street	Panama City	32405		306	6,120		306
Cedar Grove ES	13	2826 East 15th Street	Panama City	32405		206	4,120		206
Emerald Bay Academy		1515 June Ave	Panama City	32401		0	0		
Everitt Ms	9	608 School Avenue	Panama City	32401		236	4,127		
Highland Park Elementary School		2507 E Baldwin Road	Panama City	32405	2,177	0	0		
Jinks JrHS	6	600 West 11th Street	Panama City	32401		125	2,500		125
Jinks JrHS	10	600 West 11th Street	Panama City	32401		76	1,520		76
Lewis center	5	1527 Lincoln Avenue	Panama City	32405		55	1,100		55
Lynn Haven Elementary School		301 W 9th Street	Lynn Haven	32444	1,068	0	0		
Merritt Brown Elementary School	4	5601 Merritt Brown Road	Panama City	32404	2,694	1,237	19,969		
Millville Elementary School		203 N East Avenue	Panama City	32401	1,990	0	0		
Moore Elementary School	10 or 2	1900 Michigan Avenue	Panama City	32405		171	3,115		
Moore Elementary School	11 or 3	1900 Michigan Avenue	Panama City	32405		435	9,216		
Moore Elementary School	12 or 4	1900 Michigan Avenue	Panama City	32405		396	7,380		
Moore Elementary School	13 or 5	1900 Michigan Avenue	Panama City	32405		60	925		
Mowat MS	11	1903 Hwy 390	Panama City	33444		139	2,780		139
Northside Elementary School		2001 Northside Drive	Panama City	32401		0	0		
Oakland Terrace	14	2010 West 12th Street	Panama City	32401		258	5,160		258
Oakland Terrace ES	13	2010 West 12th Street	Panama City	32401		294	5,880		294
rosenwald JrHS	13	1310 East 11th Street	Panama City	32401		202	4,040	1,351	202
Rutherford High School		1000 School Avenue	Panama City	32401	3,782	0	0	375	
Rutherford HS	2	1000 School Avenue	Panama City	32401		237	4,740		237
Springfield ES	14	520 School Avenue	Panama City	32401		245	4,900		245
Springfield ES	15	520 School Avenue	Panama City	32401		255	5,100	0	255

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BAY									
Suffside Middle School	4	300 Nautilus Street	Panama City Beach	32407		1,111	16,668		
Surfside Middle School	5	300 Nautilus Street	Panama City Beach	32407		302	4,537		
T. Smith Elementary School	1	5044 Tommy Smith Way	Panama City	32404	2,344	504	7,346		
T. Smith Elementary School	2	5044 Tommy Smith Way	Panama City	32404		518	7,777		
T. Smith Elementary School	3	5044 Tommy Smith Way	Panama City	32404		201	3,735		
T. Smith Elementary School	4	5044 Tommy Smith Way	Panama City	32404		249	3,746	240	
Waller Elementary School	3	11332 Hwy 338	Youngstown	32466		109	1,638		
Waller Elementary School	4	11332 Hwy 338	Youngstown	32466		235	3,538		
				TOTALS FOR BAY COUNTY	**20,136**	**13,320**	**244,837**	**3,455**	**7,556**

Year 2006	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	13,320	15682	-2,362	244,837	313,640	-68,803	DEFICIT	

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 (capacity reported)
Bozeman Learning Center	9	13410 Highway 77	Southport	32409	yes	108	7,434		108
Bozeman Learning Center	8	13410 Highway 77	Southport	32409	no	192	11534		192

Year 2006	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	300	762	-462	7,434	45,720	-38,286	DEFICIT	

2006 Statewide Emergency Shelter Plan

BRADFORD

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (capacity reported)
Bradford High School		581 N Temple St	Starke	32091	2,784	0	0	2,784	
Bradford Middle School		57 N Orange St	Starke	32091	1,435	0	0	1,435	
Brooker Elementary		18551 Charlotte Ave	Brooker	32622	250	0	0	250	
Hampton Elementary		SR 221 and CR 18	Hampton	32044	250	0	0	250	
Lawtey Elementary	6	N Park St and US HWY 301	Lawtey	32058	0	173	2,590		173
South Side Elementary Sch	10	823 Stanbury St	Starke	32091	120	214	3,223		131
Starke Elementary School	2	1000 Weldon St	Hampton	32044	250	344	5,171		363
Starke Elementary School	3	1000 Weldon St	Hampton	32044		0	0		0
Starke Elementary School	5	1000 Weldon St	Hampton	32044		238	3,577		307
Starke Elementary School	6	1000 Weldon St	Hampton	32044		313	4,700		352
Starke Elementary School	4	1000 Weldon St	Hampton	32044		251	5,028		
						0	0		
TOTALS FOR BRADFORD COUNTY					**5,089**	**1,533**	**24,289**	**4,719**	**1,326**

Year 2006	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	1,533	2081	-548	24,289	41,620	-17,331	DEFICIT	

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 (capacity reported)
Starke ES	3	1000 Weldon St	Hampton	32044	No	65	4,888		51

Year 2006	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	65	44	21	4,888	2,640	2,248	SURPLUS	

2006 Statewide Emergency Shelter Plan

BREVARD

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496, or Not Yet Surveyed)*	Local Planned Usage (capacity reported)
Anderson Elementary School	2 (3,4,5)	3011 S Fiske Boulevard	Rockledge	32955	700	700	17,491		473
Apollo Elementary School	2,3,4,5	3085 Knox McCrea Drive	Titusville	32780	700	602	10,610		602
Astronaut High School	00wing & 800 wi	800 War Eagle Boulevard	Titusville	32796	150	264	6,594		75
Atlantis Elementary	1 thru 6	7300 Briggs Avenue	Port St. John	32927	900	1,045	26,134		760
Bayside High School	4-Gym	1901 DeGroodt	Palm Bay	32908	3,100	0	0	1,875	206
Bayside High School	Main+2	1901 DeGroodt	Palm Bay	32908		178	2,673		1,875
Brevard Community College - Cocoa	3	1519 Clearlake Drive	Cocoa	32922		1,222	30,550		900
Brevard Community College - Cocoa-Allied He	Bldg 20	1519 Clearlake Drive	Cocoa	32922	3,400	0	0		675
Brevard Community College - Melbourne	1	3865 N Wickham Road	Melbourne	32935	1,500	596	8,940		750
Brevard Community College - Melbourne	10	3865 N Wickham Road	Melbourne	32935		167	2,505		450
Brevard Community Colllege - Melbourne	5	3865 N Wickham Road	Melbourne	32935		0	0		
Brevard Communit7 College- Palm Bay	5	250 Community college Pkwy	Palm Bay	32905	773	0	0		580
Cambridge Elementary School	Classrms/ 15 &	2000 Cambridge Drive	Cocoa	32922	550	550	11,000		413
Central Middle School	4-Jan	2600 Wingate Boulevard	W Melbourne	32904	1,600	1,539	38,477		729
Central Reference Library	1		Cocoa	32922		1,088	27,200		750
City of Palm Bay	EOC		Palm Bay	32908		150	3,000		113
Discovery Elementary School	1 thru 6	1275 Glendale Avenue NW	Palm Bay	32905	900	300	6,000		300
Discovery Elementary School	1 thru 6	1275 Glendale Avenue NW	Palm Bay	32905		1,048	26,202		683
Discovery Elementary School	10	1275 Glendale Avenue NW	Palm Bay	32905		195	3,892		
Eau Gallie High School	22-Aud	1400 Commodore Blvd	Melbourne	32935		800	10,519		600
Eau Gallie High School	37-Science	1400 Commodore Blvd	Melbourne	32935	1,700	150	3,000		439
Eau Gallie High School	37-science	1400 Commodore Blvd	Melbourne	32935	1,700	600	12,000		
Endeavor Elementary School	13-12 Rms	905 Pineda Street	Cocoa	32922	600	600	12,000		450
Enterprise Elementary School	1 thru 6	7000 Enterprise Road	Port St. John	32927	900	1,147	28,669		701
Imperial Estates Elementary School	5 thru 8	5525 Kathy Drive	Titusville	32780	850	556	13,882		436
John F. Turner Sr. Elementary School	- & 3 (14 Rooms	3175 Jupiter Blvd SE	Palm Bay	32909	600	600	12,000		450
Jupiter Elementary School	1 thru 6	950 Tupelo Road SW	Palm Bay	32908	900	1,039	25,982		750
Long Leaf Elementary School		4290 N Wickham Road	Melbourne	32935	1,000	1,506	37,646		1,101
Manatee Elementary School	1	3425 Solerno Boulevard	Viera	32940	1,100	1,100	22,000		947
Meadowlane Elementary School	1 thru 6	2800 Wingate Boulevard	Melbourne	32904	900	983	24,563		731
Melbourne High School	1 & 8	74 Bulldog Way	Melbourne	32901	1,200	1,095	27,380		599
Mims Elementary School	13 (new wing)	2582 US 1	Mims	32754	600	292	7,295		228
Oak Park Elementray School	2,5,6,7,8	3395 Dairy Road		32796	500	0	0		375
Pinewood Elementary School	4	3654 Lionel Road	Mims	32754	900	405	10,130		360
Port St. John Community Center	Center	6650 Corto Rd	Port St. John	32927		331	4,962		375
Quest Elementary School	1	8751 Trafford Drive	Melbourne	32940	1100	1,100	22,000		1,056
Ralph Williams Junior Elementary	1	1700 Clubhouse Drive	Rockledge	32955	750	0	0		750
Riviera Elementary School	1 thru 6	351 Riviera Drive NE	Palm Bay	32905	900	1,106	27,650		981
Rockledge High School	1,2,8,16	220 Raider Drive	Rockledge	32955	1,500	400	12,603		513
Roy Allen ES	6	2601 Fountianhead	Melbourne	32909	1,000	1,142	28,542		750
Sherwood Elementray School	1	2541 Post Road	Melbourne	32935	750	0	0		563
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976	350	850	24,000		225
South Mainland (Micco)	Main (1)	3700 Allen Avenue	Micco	32976	150	150	3,000		68

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BREVARD									
Southwest Junior High School		451 Eldron Boulevard SE	Palm Bay	32909	1,000	0	0		750
Space Coast Jr/Sr HS	1	6150 Banyan Street	Port St. John	32927	1,300	300	6,000		300
Space Coast Middle School		6150 Banyan Street	Port St. John	32927	1,300	600	12,000		675
Suntree Elementary School	1 thru 6	900 Pinehurst Avenue	Melbourne	32940	900	1,061	26,534		907
Westside Elementary School	4 (2005)	2175 DeGroodt Road SW	Palm Bay	32908		188	3,765		
Westside Elementary School	1	2175 DeGroodt Road SW	Palm Bay	32908	1,000	1,571	39,281		998
TOTALS FOR BREVARD COUNTY					**39,723**	**29,316**	**678,671**	**1,875**	**27,412**

Year 2006	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	29,316	17536	11,780	678,671	350,720	327,951	SURPLUS	

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 (capacity reported)
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976	no	400	24000		400
Ralph Williams ES	Main	1700 Clubhouse Drive	Rockledge	32955	no	666	39960		666
Bayside HS	4/ Gym	1901 DeGroodt	Palm Bay	32908	no	275	16500		275
Oak Park ES	2,5,6,7,8	3395 Dairy Road	Titusville	32796	no	333	19980		333
Sherwood ES	Main	2541 Post Road	Melbourne	32935	no	166	9960		166

Year 2006	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	1,840	1200	640	110,400	72,000	38,400	SURPLUS	

2006 Statewide Emergency Shelter Plan

BROWARD

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Apollo Middle School		6800 Arthur Street	Hollywood	33024	500	0	0		
Bair Middle School		9100 NW 21 Manor	Sunrise	33322	450	0	0	0	
Boyd Anderson High School		3050 NW 41st Street	Lauderdale Lakes	33309	900	0	0	1,800	
Challenger Elementary	1 or 3771	5700 NW 94	Tamarac	33321		815	51,039		815
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		1,210	48,905		1,210
Coral Glades High School	3	Sports Plex Drive	Coral Springs		900	1,800	43,192	1,800	1,800
Coral Springs High School		7201 W Sample Road	Coral Springs	33065	900	0	0	1,800	
Coral Springs Middle School		10200 W Wiles Road	Coral Springs	33076	500	0	0	1,000	
Deerfield High School		910 SW 15th Street	Deerfield Beach	33441	750	0	0	1,500	
Dilliard High School		2501 NW 11th Street	Ft. Lauderdale	33311	450	0	0	900	
Ely High School		1201 NW 6th Avenue	Pompano Beach	33060	600	0	0	1,200	
Everglades Elementary	1 or 2942	2900 Bonaventure Blvd	Weston	33331	450	815	48,697		815
Everglades High School	2 or 3731	17100 SW 48th Ct	Miramar	33027		1,800	58,672		1,800
Falcon Cove Middle School	3 or 2431	4251 Bonaventure Blvd	Weston	33332	500	1,440	25,547		1,440
Floranda Elementary School	851	5251 NE 14th Way	Ft. Lauderdale	33334	0	0	0		
Fox Trail Elementary School	1 or 3531	1250 Nob Hill Road	Davie	33324	450	1,210	50,923		1,210
Gator Run Elementary	1 or 3641	1101 Arvida Parkway	Weston	33327		815	48,846		815
Hallandale Elementary	3 or 131	1000 SW 8th St	Hallandale	33009		575	33,645		575
Hallandale Elementary		900 SW 8th Street	Hallandale	33009	450	0	0		
Hallandale High School		720 NW 9th Avenue	Hallandale	33309	800	0	0	1,600	
Hollywood Hills High School		5400 Stirling Road	Hollywood	33021	600	0	0	1,200	
Indian Ridge Middle	3471	1355 Nob Hill Road	Davie	33324		0	0		
Indian Ridge Middle						0	0		
Lakeside Elementary School	1 or 3591	900 NW 136 Avenue	Pembroke Pines	33026	450	1,210	50,535		1,210
Lauderdale Lakes Middle School		3911 NW 30th Avenue	Lauderdale Lakes	33309	450	0	0	900	
Lauderdale Lakes X Elementary School						0	0		
Lauderhill Middle School		1901 NW 49th Avenue	Lauderhill	33313	450	0	0	900	
Liberty Elementary	1 or 3821	2450 Banks	Margate	33063		815	49,044		815
Lyons Creek Middle School	1 or 3101	4333 Sol Press Blvd	Coconut Creek	33073	500	1,790	66,952		1,790
Manatee Bay Elementary	1 or 3831	19200 SW 36	Weston	33331		815	48,897		815
Margate Middle School		500 NW 65th Avenue	Margate	33063	450	0	0		
McNichols Middle	481	1602 S. 27th Ave.	Hollywood	33020		0	0		
Miramar High School		3601 SW 89th Avenue	Miramar	33025	900	0	0	1,800	
Monarch High School	2 or 3541	5050 Wiles Rd	Coconut Creek	33063		1,800	26,731		1,800
New Renaissance Middle	3 or 3671	10701 Miramar	Miramar	33025		2,430	25,203		2,430
New River Middle	881	3100 Riverland Rd	Ft. Lauderdale	33312		0	0		
Panther Run Elementary School	1 or 3571	801 NW 172 Avenue	Pembroke Pines	33328	450	1,210	50,685		1,210
Park Lake Elementary	1 or 3761	3925 N. State	Lauderdale Lakes	33309		1,210	50,797		1,210

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Park Trails Elementary	1	10700 Trails End	Parkland	33076		1,210	51,735		1,210
Parkland D 6 E S						0	0		
Parkside Elementary School	1 or 3631	10257 NW 29th Street	Coral Springs	33065	450	890	49,068		890
Pioneer Middle School		5350 SW 90th Avenue	Cooper City	33328	500	0	0	1,000	
Piper High School		8000 NW 44th Street	Sunrise	33321	600	0	0		
Plantation Elementary	1 or 941	651 NW 42nd Avenue	Ft. Lauderdale	N/A	450	815	51,246		815
Plantation Middle School		6600 W Sunrise Boulevard	Plantation	33313	400	0	0	800	
Pompano Beach High School	181	1400 NE 6th St	Pompano Beach	33060		1,800	36,000		1,800
Pompano Beach Middle School		310 NE 6th Street	Pompano Beach	33060	500	0	0	1,000	
Ramblewood Middle School		8505 W Atlantic Boulevard	Coral Springs	33071	450	0	0	900	
Rock Island Elementary	1 or 3701	2350 NW 19	Ft. Lauderdale	33311		2,400	38,356		2,400
Seminole Middle School		6200 SW 16th Street	Plantation	33317	450	0	0	900	
Silver Lakes Elementary School	1 or 3371	2300 SW 173 Avenue	Miramar	33027	400	1,210	51,090		1,210
Silver Palms Elementary School	1 or 3371	1209 NW 155th Avenue	Pembroke Pines	33029	450	1,210	49,844		1,210
Silver Shores Elementary	1 or 3581	1701 SW 160	Miramar	33027		815	48,950		815
Silver Trails Middle School	2 or 3331	18300 Sheridan Street	Pembroke Pines	33331	500	1,790	26,481		1,790
South Plantation High School		1300 Paladin Way	Plantation	33317	900	0	0		
Sunset Lakes Elementary	1 or 3661	18400 SW 25	Miramar	33027		1,210	49,317		1,210
Sunset School	422					0	0		
Taravella High School		10600 Riverside Drive	Coral Springs	33071	900	0	0	1,800	
Tequesta Trace Middle School		1800 Indian Trace	Ft. Lauderdale	33326	300	0	0	600	
Tradewinds Elementary	1 or 3481	5400 Johnson Road	Coconut Creek	33073	450	1,210	49,528		1,210
Watkins Elementary School	1 or 511	3520 NW 52nd Avenue	Hollywood	33023	450	815	51,031		815
Western High School		1200 SW 136th Avenue	Ft. Lauderdale	33325	900	0	0	1,800	
Westglades Middle	3 or 3611	11000 Holmb	Parkland	33026		0	0		
						0	0		
				TOTALS FOR BROWARD COUNTY	**22,800**	**37,135**	**1,330,956**	**27,000**	**37,135**

Year 2006	**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	37,135	31,199	5,936	1,330,956	623,980	706,976	SURPLUS	

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**
Indian Ridge MS	2 or 3471	1355 Nob Hill Road	Davie	33324	No	533	26,481		533
Sunset School					No	533	31,980		533
McNichols MS		1602 S. 27th Ave.	Hollywood	33020	No	533	25,390		533
New River MS		3100 Riverland Rd	Ft. Lauderdale	33312	No	533	24,295		533
WestGlades MS	3	11000 Holmb	Parkland	33026	No	533	25,203		533

2006 Statewide Emergency Shelter Plan

BROWARD								
Year 2006	**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	2,665	265	2,400	159,900	15,900	144,000	SURPLUS	

2006 Statewide Emergency Shelter Plan

CALHOUN

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*
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	
				TOTALS FOR CALHOUN COUNTY	**4,403**	**0**	**0**	

Year 2006	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	1340	-1,340	0	26,800	-26,800	DEFICIT

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)
Uses Regional Shelter								

Year 2006	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	55	-55	0	3,300	-3,300	DEFICIT

2006 Statewide Emergency Shelter Plan

CHARLOTTE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (capacity reported)
Liberty ES	café & hallways	23000 Midway Blvd NE	Port Charlotte	33952	500	351	5,259	1,000	500
Port Charlotte MS	café & hallways	370 Atwater Street	Port Charlotte	39952	1000	916	13,739	500	1,000
Kingsway ES	1st floor					1,860	40,000		2,000
						0	0		
TOTALS FOR CHARLOTTE COUNTY					**1,500**	**3,127**	**58,998**	**1,500**	**3,500**

Year 2006	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	3,127	46705	-43,578	58,998	934,100	-875,102	DEFICIT

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									

Year 2006	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	204	-204	0	12,240	-12,240	DEFICIT

2006 Statewide Emergency Shelter Plan

CITRUS

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (capacity reported)
Beverly Hills Lions Club		72 Beverly Hills Center	Beverly Hills	N/A	350	0	0	0	
Church of God		416 South Hwy 41	Inverness	N/A	1,394	0	0	0	
Citrus High School	café/21	600 West Highland Blvd	Inverness	34452	2,418	415	8,290	2,418	544
Citrus High School	16	600 West Highland Blvd	Inverness	N/A		254	6,357		227
Citrus High School	17	600 West Highland Blvd	Inverness	N/A		247	5,940		247
Citrus Springs Elementary School		3570 West Century Blvd	Citrus Springs	N/A	1,500	0	0	1,500	
Citrus Springs MS	1	150 W Citrus Springs Blvd	Citrus Springs	N/A		76	1,574		107
Citrus Springs MS	2	150 W Citrus Springs Blvd	Citrus Springs	N/A		262	6,542		171
Citrus Springs MS	3	150 W Citrus Springs Blvd	Citrus Springs	N/A		437	7,319		379
Citrus Springs MS	4	150 W Citrus Springs Blvd	Citrus Springs	N/A		437	7,319		379
Citrus Springs MS	8	150 W Citrus Springs Blvd	Citrus Springs	N/A		237	5,922		208
First Assembly Church		4201 South Pleasant Grove R	Inverness	N/A	800	0	0	0	
First Baptist Church		8545 E Magnolia	Floral City	N/A	400	0	0	0	
First Baptist Church of Inverness		123 S Seminole Avenue	Inverness	N/A	200	0	0	0	
First Christian Church		1005 Hillside Court	Inverness	N/A	400	0	0	0	
First Lutheran Church		1900 W Highway 44	Inverness	N/A	400	0	0	0	
First Presbyterian Church		206 Washington Avenue	Inverness	N/A	400	0	0	0	
Floral City Community Center		8370 E. Orange Avenue	Floral City	N/A	200	0	0	0	
Floral City Elementary School		8457 E Marvin Street	Floral City	N/A	543	0	0	543	
Forest Ridge Elementary School	1	2927 North Forest Ridge	Hernando	34442		2,800	42,131		2,800
Hernando Elementary School		2353 N Croft Avenue	Hernando	N/A	1,500	0	0	600	
Highlands Emergency Center		4325 S Little Al Point	Inverness	N/A	400	0	0	0	
Hope Evangelical Lutheran Church		9425 N Citrus Springs Blvd	Citrus Springs	N/A	150	0	0	0	
Inverness Middle School		1950 North US Highway 41	Inverness	N/A	2,157	0	0	2,157	
Inverness Primary School		206 South Lime Avenue	Inverness	N/A	1,299	0	0	1,299	
Lecanto High School		3810 W Education Path	Lecanto	N/A	3,400	0	0	3,400	
Lecanto Middle School		3800 W Education Path	Lecanto	N/A	2,519	0	0	0	
Lecanto Primary School		3790 W Education Path	Lecanto	N/A	1,869	0	0	1,869	
Main Street Baptist Church		960 S Highway 41	Inverness	N/A	400	0	0	0	
Our Lady of Fatima		550 S Highway 41	Inverness	N/A	400	0	0	0	
Pleasant Grove Elementary		630 Pleasant Grove Road	Inverness	N/A	1,500	0	0	600	
Riverside Christian Church		7771 N Carl G. Rose Hwy	Hernando	N/A	100	0	0	0	
Rock Crusher Elementary		814 S Rock Crusher Road	Crystal River	N/A	1,500	0	0	1,500	
St. Elizabeth Anne Seton Hall		1180 Country Club B	Dunnellon	N/A	450	0	0	0	
St. Margaret Episcipal Church		114 N Osceola Avenue	Inverness	N/A	100	0	0	0	
V.F.W. Leroy Rokks		1930 S Highway 200	Hernando	N/A	200	0	0	0	
Withlacoochee Vocational Technical School		1201 W Main Hwy 44 West	Inverness	N/A	2,075	0	0	2,075	
						0	0		
				TOTALS FOR CITRUS COUNTY	**29,024**	**5,165**	**91,394**	**17,961**	**5,062**

2006 Statewide Emergency Shelter Plan

CITRUS

Year 2006	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	5,165	5637	-472	91,394	112,740	-21,346	DEFICIT	

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
Lecanto MS		3800 W Education Path	Lecanto		No	0	0	100	
Inverness MS		1950 North US Highway 41	Inverness		No	0	0	0	

Year 2006	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	300	-300	0	18,000	-18,000	DEFICIT	

2006 Statewide Emergency Shelter Plan

CLAY

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Argyle Elementary	2	2625 Spencer Plantation Blvd	OP	32073		225	5,285		225
C.E. Bennett Elementary School		1 South Oakridge Avenue	Gr Cove Springs	32043	397	0	0	397	
Clay High School		2025 SR 16 West	Gr Cove Springs	32043	500	0	0	500	
Clay Hill Elementary School	5	6345 CR 218	Maxville	32234	200	263	5,074		263
Doctor's Inlet Elementary School		2634 SR 220	Doctor's Inlet	32030	200	0	0	200	
Fleming Island High	Cafeteria		Orange Park	32003	466	569	14,237		466
Fleming Island Elementary School		4425 Lake Shore Drive	Orange Park	32073	200	0	0	200	
Green Cove Springs HS	8					350	6,823		
Grove Park Elementary School		1643 Miller Street	Orange Park	32073	383	0	0	383	
J.L. Wilkinson Elementary		4965 CR 218 West	Middleburg	32068	500	0	0	500	
J.L. Wilkinson Jr. High School		5005 CR 218 West	Middleburg	32068	500	0	0	500	
Keystone Heights Elementary School		335 South Pecan Street	Keystone Heights	32656	343	0	0	343	
Keystone Heights High School		900 SW Orchid Avenue	Keystone Heights	32656	500	0	0	500	
Lake Asbury Elementary School	6	2901 Sandridge Road	Gr Cove Springs	32043	500	265	5,410		265
Lake Asbury Elementary School	7	2901 Sandridge Road	Gr Cove Springs	32043		265	5,959		265
Lake Asbury Junior HS	1	2851 Sandridge Rd	GCS	30243		343	5,971		349
Lakeside Elementary School	6	2752 Moody Road	Orange Park	32073	399	263	5,154		263
Lakeside Elementary School	7	2752 Moody Road	Orange Park	32073		263	4,956		263
Lakeside Jr. High School		2750 Moody Road	Orange Park	32073	200	0	0	200	
McRae Elementary School		6770 CR 315	Keystone Heights	32656	200	0	0	200	
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	347	265	5,409		265
Montclair Elementary School	5	2398 Moody Road	Orange Park	32073		265	5,372		265
Orange Park Elementary School		1401 Plainfield Avenue	Orange Park	32073	254	0	0	254	
Orange Park High School		2300 Kingsley Avenue	Orange Park	32073	500	0	0	500	
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	395	395	7,900		395
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	
St. Johns River Com Col (Thrasher Bldg	2	285 College Drive	Orange Park	32065		0	0		
St. Johns River Community College	D	285 College Drive	Orange Park	32065	302	155	3,100		155
St. Johns River Community College	V	285 College Drive	Orange Park	32065		147	2,940		147
Tynes Elementary School - Bldg. 1/Cafe	1	1550 Tynes Boulevard	Middleburg	32068	350	0	0	350	
Tynes ES	2	1550 Tynes Boulevard	Middleburg	32068		273	4,881		273
W.E. Cherry Elem School - Bldg 1/Cafetorium		420 Edson Avenue	Orange Park	32073	380	0	0	380	
Wilkinson ES	5					256	5,155		256
						0	0		
				TOTALS FOR CLAY COUNTY	**10,298**	**4,562**	**93,626**	**7,689**	**4,115**

2006 Statewide Emergency Shelter Plan

CLAY

Year 2006	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	4,562	10,726	-6,164	93,626	214,520	-120,894	DEFICIT	

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
St. Johns River Community College	Thrasher/ 2	285 College Drive	Orange Park	32065	**No**	**98**	3,130		98

Year 2006	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	98	158	-60	5,880	9,480	-3,600	DEFICIT	

2006 Statewide Emergency Shelter Plan

COLLIER

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Baron Collier High School	Main/Café/Gym	5600 Cougar Lane	Naples	34105	2500	0	0		
Big Cypress Elementary	2	3250 Golden Gate Blvd	Naples	34116	750	256	3,845		750
Calusia Park Elementary	Café& 4 clrms	4600 Santa Barbara Blvd	Naples	34104	250	975	24,384		500
Corkscrew Middle School	Gym	419 First Street	Immokalee	34142	750	392	5,876		1,000
Elementary School "L"		**Livingston Road**	**Naples**	**34109**		500	10,000		**500**
Golden Gate Elementary		491 1 20th Pl, SW	Naples	34116	375	1,500	30,826		1,500
Golden Gate High School	Café/gym	29215 Magnolia Pond Rd	Naples	34116		2,233	33,495		2,500
Golden Gate Middle School		2701 48th Terr Sw	Naples	34116	375	1,500	30,000		1,500
Golden Terrace Elementary	Café/Gym	2711 44th Terrace SW	Naples	33999	500	280	4,199		400
Gulf Coast High School	Gym	7878 Immokalee Blvd	Naples	34110	1,500	1,442	21,624		2,500
Highlands Elementary School		1101 Lake Trafford Road	Immokalee	34142	700	0	0		
IFAS		Rt. 29	Immokalee	34142	100	0	0		
Immokalee Friendship House	Main	602 West Main Street	Immokalee	34112	500	600	12,000		600
Immokalee Health Department/Center		419 N 1st Street	Immokalee	34142	50	0	0		
Immokalee High School		710 Immokalee Road	Immokalee	34142	600	2,000	33,849		2,000
Immokalee Middle School	Café 8/9	3500 Lake Trafford Road	Immokalee	34142	1,000	857	12,860		1,000
Lake Trafford Elementary School	Café/Gym	3500 Lake Trafford Road	Immokalee	34142	1,200	0	0		
Laurel Oak Elementary	2	7800 Immokalee Road	Naples	33942	250	264	3,954		500
Lely High	Gym	1 Lely High School Blvd	Naples	34113	500	2,500	50,000		2,500
Manatee Elementary	Gym	1880 Manatee RD	Naples	34114	250	0	0		
North Naples Middle School	Café/Gym	16165 Livingston Rd	Naples	34119	500	1,000	18,853		1,000
Oak Ridge Middle School	Café 8/9	151 State Rd 951	Naples	33999	1,000	741	11,121		1,500
Palmetto Ridge High School	Café/Gym	1655 CR 858	Naples	34120		0	0		
Pelican Marsh ES	Café	9480 airport Rd North	Naples	34109	500	334	5,011		500
Pine Ridge Middle School	Main	213 S 9th Street	Immokalee	34142	360	1,859	46,487		1,500
Pinecrest Elementary School		1515 Pine Ridge Road	Naples	33942	1,000	0	0		
Sable Palm ES	Admin/Gym	4095 18th Ave,NE	Naples	34116	250	500	10,000		500
Village Oaks Elementary School	Admin	1501 SR 29	Immokalee	34142	350	750	12,647	750	750
Vineyards Elementary School	Café/Gym	6225 Arbor Boulevard	North Naples	34119	300	902	22,554		750
						0	0		
				TOTALS FOR COLLIER COUNTY	**16,410**	**21,385**	**403,585**	**750**	**24,250**

2006 Statewide Emergency Shelter Plan

Year 2006	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	21,385	49,736	-28,351	403,585	994,720	-591,135	DEFICIT

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	Comments	local planned
Palmetto Ridge HS	Café/Gym	1655 CR 858	Naples	34120	**No**	**737**	33,170	**EHPA**	**1000**
Barron Collier HS	Main/Café/Gyr	5600 Cougar Lane	Naples	34105	**No**	**625**	**46,895**	**Exiting Storm Only**	**500**

Year 2006	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	1,362	534	828	81,720	32,040	49,680	SURPLUS

2006 Statewide Emergency Shelter Plan

COLUMBIA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Berea Baptist Church		Hwy 47 South	Lake City	N/A	155	0	0	78	
Columbia City School		Highway 47 South	Lake City	N/A	520	0	0	260	
Columbia High School, North		Pennsylvannia 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 Presbyterian Church		West Baya Avenue	Lake City	N/A	200	0	0	100	
First Methodist Church		South Marion Street	Lake City	N/A	200	0	0	200	
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	250	403	10,073	250	365
Fort White Public School	11	Highway 47 South				135	2,702		
Fort White Public School	12	Highway 47 South				136	2,724		
Lake City Middle School		Grandview Avenue	Lake City	N/A	300	0	0	300	
Southside Recreation Center		McFarlane Avenue	Lake City	N/A	75	0	0	35	
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	
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 Elementary	1	Rt 12, Box 5300	Lake City	32055		249	4,988	300	249
Westside Elementary	2	Rt 12, Box 5300				290	4,461		
Westside Elementary	3	Rt 12, Box 5300				232	4,640		
Westside Elementary	4	Rt 12, Box 5300				279	4,190		
Westside Elementary	5	Rt 12, Box 5300				137	3,260		
Westside Elementary	6	Rt 12, Box 5300				261	4,461		
Westside Elementary	9	Rt 12, Box 5300				175	2,686		
Bingo Station		Rt10, SR 47	Lake City		155	0	0	78	
Westside Baptist Chapel		4471 US90W	Lake City		110	0	0	55	
Hopeful Baptist Church		389 SE Hopeful Circle	Lake City		700	0	0	350	
						0	0		
TOTALS FOR COLUMBIA COUNTY					**5,255**	**2,297**	**44,185**	**4,091**	**614**

Year 2006	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	5899	-3,602	44,185	117,980	-73,795	DEFICIT	

2006 Statewide Emergency Shelter Plan

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**	**local planned usage**
VA Domilery					**Yes**	**0**	o	**16**	
Year 2006	**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	44	-44	0	2,640	-2,640	DEFICIT		

2006 Statewide Emergency Shelter Plan

DESOTO

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
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	144	192	2,886	0	289
County Court House		115 East Oak Street	Arcadia	34266	0	0	0	168	
County Library		125 North Hillsborough Avenu	Arcadia	34266	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	Bldg c					481	9,985		481
DeSoto Ms	3-Gym					583	10,776		583
DeSoto MS	Bldg B					481	9,985		481
DeSoto Ms	Bldg d					481	9,981		481
First Baptist Church		1006 North Brevard Avenue	Arcadia	34266	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	
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	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	395	0	0		
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	1,523	0	0	0	
Turner Center Exhibit Hall		2260 NE Roan	Arcadia	34266		0	0	0	
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	
				TOTALS FOR DESOTO COUNTY	**5,272**	**2,465**	**47,102**	**4,511**	**2,602**

Year 2006	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	2,465	6629	-4,164	47,102	132,580	-85,478	DEFICIT	

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	Comments	Local planned usage

2006 Statewide Emergency Shelter Plan

South Florida Comm. College		2251 NE Turner	Arcadia	34266	**No**	**151**	9,060	**Note: EHPA**	151
Turner Exhibition Hall		2260 NE Roan	Arcadia	34266	**No**	**40**	2,400		140

Year 2006	**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	191	120	71	11,460	7,200	4,260	SURPLUS	

2006 Statewide Emergency Shelter Plan

DIXIE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Anderson Elementary School		CR 349 South	Oldtown	N/A	914	0	0		
Dixie County High School		Horseshoe Rd CR 351 S	Cross City	N/A	542	0	0		
Old Town Elementray		CR 55A	Old Town	32628	195	0	0		
Old Town Elementray	1	CR 55A	Old Town	32628		205	5,137		106
Old Town Elementray	2	CR 55A	Old Town	32628		460	8,045		460
Old Town Elementray	3	CR 55A	Old Town	32628		321	7,138		321
Old Town Elementray	4	CR 55A	Old Town	32628		165	4,110		165
Old Town Elementray	5	CR 55A	Old Town	32628		74	1,110		175
Old Town Elementray	7					0	0		
Ruth Raines Middle School	1South & 1n	Horseshoe Rd CR 351 S	Cross City	32628		489	10,829		489
Ruth Raines Middle School	2	Horseshoe Rd CR 351 S	Cross City	32628		61	1,220		61
Ruth Raines Middle School	3	Horseshoe Rd CR 351 S	Cross City	32628		206	5,148		160
Ruth Raines Middle School		Horseshoe Rd CR 351 S	Cross City	32628		0	0		0
Ruth Raines Middle School	5	Horseshoe Rd CR 351 S	Cross City	32628		70	1,467		70
TOTALS FOR DIXIE COUNTY					**1,651**	**2,051**	**44,204**	**0**	**2,007**

Year 2006	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	2782	-731	44,204	55,640	-11,436	DEFICIT	

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	Comments	local planned
Old Town ES	7/Café	CR 55A	Old Town	32628	**No**	**84**	5,019	**Note: EHPA**	84

Year 2006	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	84	90	-6	5,040	5,400	-360	DEFICIT	

2006 Statewide Emergency Shelter Plan

DUVAL									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)*	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Surveyd)*	**Local planned usage (capacity reported)**
A. Robinson Elementary School	bldg 1, bldg 2 (1st floor	101 12th Street West	Jacksonville	N/A	0	1,949	48,724	270	848
Abess Park Elementary	main (1st flor)					1,062	26,559	270	958
Alfred I. Dupont Middle School		2710 Duport Avenue	Jacksonville	N/A		0	0	270	
Andrew Jackson High School		3816 Main Street	Jacksonville	N/A	594	0	0	270	
Arlington Middle School		8141 Lone Star Road	Jacksonville	N/A	0	0	0	270	
Baldwin Jr/Sr High School		291 Mills Street	Jacksonville	N/A	578	0	0	270	
Biltmore Elementary School		2101 Palm Avenue	Jacksonville	N/A	0	0	0	270	
Brookview Elementary School		10450 Theresa Drive	Jacksonville	N/A	0	0	0	270	
Carter G. Woodson Elementary School		2334 Butler Street	Jacksonville	N/A	0	0	0	270	
Chets Creek Elementary School	main (1st flor)	13200 Chets Creek Blvd				1,085	27,114	270	958
Chimney Lake Elementary School	A,B, D(1st floor)	9353 Staples Mill Road	Jacksonville	N/A	1,000	2,367	59,184	270	1,298
Crown Point Elementary School		3800 Crown Point Road	Jacksonville	N/A	400	0	0	270	
Crystal Springs Elementary School	D(1st flr)	1200 Hammond Boulevard	Jacksonville	N/A	600	2,414	60,340	270	637
D. Anderson School		2445 San Diego Road	Jacksonville	N/A	0	0	0	270	
Don Brewer Elementary School	main (1st flr)	3385 Hartsfield	Jacksonville	32211	1100	801	20,024	270	537
Edward White Sr High School		1700 Old Middleburg Road	Jacksonville	N/A	700	0	0	270	
Englewood Sr. High School		4412 Barnes Road	Jacksonville	N/A	515	0	0	270	
Enterprise Learning Academy	main (1st flr)	8085 Old Middleburg Road	Jacksonville	N/A		0	0	270	
Eugene Butler Middle School		900 Acorn Street	Jacksonville	N/A	0	0	0	270	
First Coast High School		590 Duval Station Road	Jacksonville	N/A	1,000	0	0	270	
Ft. Caroline Middle School		3757 Univeristy Club Blvd	Jacksonville	N/A	515	0	0	270	
Garden City Elementary School		2814 Dunn Avenue	Jacksonville	N/A	0	0	0	270	
Greenland Pines						0	0	270	
Highlands Middle School		10913 Pine Estate Road	Jacksonville	N/A	0	0	0	270	
Hyde Park Elementary School		5300 Park Street	Jacksonville	N/A	0	0	0	270	
J.E.B. Stuart Middle School		4815 Wesconnett Blvd	Jacksonville	N/A	0	0	0	270	
Jacksonville Heights Elementary School		7750 Tempest Street	Jacksonville	N/A	0	0	0	270	
Jeff Davis Middle School		7050 Melvin Road	Jacksonville	N/A	0	0	0	270	
Joseph Stilwell Middle School		7840 Burma Road	Jacksonville	N/A	0	0	0	100	
Kernan Trails Elementary School	Main	2281 Kernan	Jacksonville	32246	1100	1,460	36,488	270	537
Lake Lucina Elementary School		6527 Merrill Road	Jacksonville	N/A	0	0	0	270	
Landmark Middle School		101 Kernan Road	Jacksonville	N/A	400	0	0	270	
Landmark Middle School		101 Kernan Road	Jacksonville	N/A		0	0	270	
LaVilla Middle School of the Arts	1st flr East Wing	501 North Davis Street	Jacksonville	32202	2,467	1,586	39,659	270	818
Mandarin Middle School	1#63-70	5100 Hood Road	Jacksonville	N/A	1,000	0	0	270	
Mandarin Oaks Elementary School	A, Bldg D (1st flr)	10600 Hornets Nest Road	Jacksonville	N/A	0	2,468	61,705	270	1,298
Mandrian High School		4831 Greenland Road	Jacksonville	N/A	0	0	0	270	
N.B. Forrest Sr. High School		5530 Firestone Road	Jacksonville	N/A	808	0	0	270	
Northshore Elementary School		5701 Silver Plaza	Jacksonville	N/A	200	0	0	270	
Northwestern Middle School		2100 45th Street	Jacksonville	N/A	0	0	0	270	
Oceanway Elementary School	Main	143 Oceanway Avenue	Jacksonville	N/A	0	1,462	36,557	270	537

DUVAL									
Oceanway Middle School	café	143 Oceanway Avenue	Jacksonville	32218	370	0	0	270	
Paxon Sr. High School		3239 5th Street West	Jacksonville	N/A	0	0	0	270	
Pine Estates Elementary School		10741 Pine Estates Road	Jacksonville	N/A	0	0	0	270	
R.F. Kennedy Center		1033 Ionia Street	Jacksonville	N/A	0	0	0	270	
R.F. Kennedy Center		1033 Ionia Street	Jacksonville	N/A		0	0	270	958
R.L. Brown Elementary School		1535 Milnor Street	Jacksonville	N/A	0	0	0	270	
Raines Sr. High School		3663 Raines Avenue	Jacksonville	N/A	482	0	0	270	
Ramona Elementary School		5540 Ramona Boulevard	Jacksonville	N/A	0	0	0	270	
Robert E. Lee Sr High School		1200 McDuff Avenue S	Jacksonville	N/A	515	0	0	270	
S.A. Hull Elementary School		7528 Hull Street	Jacksonville	N/A	0	0	0	270	
Sable Palm Elementary School	A, Bldg D (1st flr)	1201 Kernan Road	Jacksonville	N/A	0	2,476	61,896	270	1,298
San Jose Elementary School		5805 St. Augustine Road	Jacksonville	N/A	0	0	0	270	
Sandalwood Jr./Sr. High School		2750 John Prom Boulevard	Jacksonville	N/A	1,362	0	0	270	
Southside Middle School		2948 Knights Lane	Jacksonville	N/A	0	0	0	270	
Spring Park Elementary School		2250 Spring Park	Jacksonville	N/A	0	0	0	270	
Stanton College Prep School		1149 13th Street	Jacksonville	N/A	0	0	0	270	
Terry Parker Sr. High School		7301 Parker School Road	Jacksonville	N/A	0	0	0	270	
Twin Lakes Academy	main(1st flr)	10515 Baymeadows	Jacksonville	N/A		0	0	270	
Wolfson Sr. High School		7000 Powers Avenue	Jacksonville	N/A	503	0	0	270	
Woodland Acres Elementary School		328 Bowlan Street	Jacksonville	N/A	0	0	0	270	
						0	0	270	
				TOTALS FOR DUVAL COUNTY	**16,209**	**19,130**	**478,250**	**20,080**	**10,682**

Year 2006	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	19,130	33,171	-14,041	478,250	663,420	-185,170	DEFICIT	

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
Mandarin MS	1#63-70	5100 Hood Road	Jacksonville		**No**	**230**	13,800		**230**
Twin Lakes Academy		10515 Baymeadows	Jacksonville		**No**	**150**	19,160		**150**
Enterprise Learning Academy	Main (1st flr)	8085 Old Middleburg Road	Jacksonville		No	503	30,177		503
Landmark MS	Main (1st flr)	101 Kernan Road	Jacksonville		No	0	0	230	0
Oceanway MS	café	143 Oceanway Avenue	Jacksonville	32218	No	115	6,885	Note; EHPA	115

Year 2006	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	998	496	502	59,880	29,760	30,120	SURPLUS	

2006 Statewide Emergency Shelter Plan

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Bailey MS	1	4110 Bauer Road	Pensacola	32506		448	8,028		448
Bailey MS	3	4110 Bauer Road	Pensacola	32506		40	710		40
Bailey MS	4	4110 Bauer Road	Pensacola	32506		0	0		0
Bailey MS	5	4110 Bauer Road	Pensacola	32506		0	0		0
Bailey MS	6	4110 Bauer Road	Pensacola	32506		548	11,702		548
Bailey MS	7	4110 Bauer Road	Pensacola	32506		298	7,098		298
Bailey MS	8	4110 Bauer Road	Pensacola	32506		338	8,451		302
Bailey MS	9	4110 Bauer Road	Pensacola	32506		0	0		0
Beggs Vocational School		2404 Longleaf Drive	Pensacola	32506		0	0		
Bellview Assembly of God		2920 W. Michigan Avenu	Pensacola	32526	615	0	0		
Bellview Baptist Church		4750 Saufley Rd	Pensacola	32526	480	0	0		
Bellview Elementary School[1]	5	4425 Bellview Avenue	Pensacola	32506		309	5,094		309
Bellview Middle School[1]		6201 Mobile Highway	Pensacola	32506		0	0		
Beulah Elementary School[1]	Main	6201 Helms Road	Pensacola	32506		0	0		
Beulah Elementary School1	2000 add	6201 Helms Road	Pensacola	32506		200	3,448		200
Blue Angel ES	100 wing	1551 Dog Track Road	Pensacola	32506		243	6,069		98
Blue Angel ES	400 wing	1551 Dog Track Road	Pensacola	32506		419	6,887		419
Blue Angel ES	500 wing	1551 Dog Track Road	Pensacola	32506		463	8,328		463
Blue Angel ES	600 wing	1551 Dog Track Road	Pensacola	32506		406	7,604		406
Blue Angel ES	300 wing	1551 Dog Track Road	Pensacola	32506		354	5,933		354
Blue Angel ES	200 wing	1551 Dog Track Road	Pensacola	32506		120	4,827		120
Brentwood ES	5	4820 North Palaof	Pensacola	32505		60	2,423	367	427
Brownsville Middle School[1]		3700 West Avery Street	Pensacola	32503		0	0		
Carver Middle School[1]		700 E Hecker Road	Century	32525		0	0		
Century- Carver Middle School	7	440 East hecker Road	Century	32535		327	6,540		327
Century- Carver Middle School	7	440 East hecker Road	Century	32535		220	4,407		220
Charity Chapel		5820 Montgomery Ave	Pensacola	32526	106	0	0		
Circle Baptist		808 New Warrington Rd	Pensacola	32505	128	0	0		
Community Workshop Center		6200 West Nine Mile Rd	Pensacola	32526	161	0	0		
Ernest Ward Middle School[1]		7650 Highway 97	Walnut Hill	32568		0	0		
Faith Baptist Church		3600 Creighton Rd	Pensacola	32504	80	0	0		
Ferrypass Elementary	5	8310 North Davis	Pensacola	32514		293	5,717		293
Ferrypass Middle	4	8355 Yancey Ave	Pensacola	32514		311	6,211		311
First Presbyterian Church		33 East Gregory St	Pensacola	32595	480	0	0		
First United Methodist		6 East Wright St	Pensacola	32501	306	0	0		
Holy Cross Episcopal Church		7979 North 9th Ave	Pensacola	32514	160	0	0		
Holy Spirit Catholic Church		10650 Gulf Beach HWY	Pensacola	32507	385	0	0		
Jim Allen Elementary School[1]	6	1051 Highway 95A	Cantonment	32533		293	5,077		293
K-8 Molino / Molino Park ES	1	899 Hwy 97	Molino	32577		852	13,622		852
Liberty Church		2221 S. Blue Angel Pkwy	Pensacola	32506	160	0	0		
Lipscomb Elementary School[1]	600 wing	10200 Ashton Brosnahan	Pensacola	32504	1,000	342	6,598		342
Lipscomb Elementary School[1]	500 wing	10200 Ashton Brosnahan	Pensacola	32504		339	5,990		339

2006 Statewide Emergency Shelter Plan

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Lipscomb Elementary School[1]	400 wing	10200 Ashton Brosnahan	Pensacola	32504		266	3,990		280
Lipscomb Elementary School[1]	100 wing N	10200 Ashton Brosnahan	Pensacola	32504		252	5,041		252
Lipscomb Elementary School[1]	100 wing S	10200 Ashton Brosnahan	Pensacola	32504		105	2,102		105
Lipscomb Elementary School[1]	200 wing	10200 Ashton Brosnahan	Pensacola	32504		305	5,049		305
Lipscomb Elementary School[1]	300 wing	10200 Ashton Brosnahan	Pensacola	32504		262	4,085		262
Longleaf Elementary	2	2600 Longleaf dr	Pensacola	32526		392	7,840		392
Macedonia CME Church		2285 Stacy RD	Pensacola	32533	41	0	0		
Marcus Point Baptist		6205 North "W" St	Pensacola	32535	1106	0	0		
Navy Point Elementary		1050 Gulf Beach Hwy	Pensacola	32507	0	170	2,556		228
Northview High School[1]	1	4100 West Highway 4	Century	32525	1,500	1,097	27,436		0
Pensacola Civic Center	1st/2lfr halls	201 East Gregory St	Pensacola	32501	2,829	0	0	2,829	
Pensacola Junior College1	Main	1000 College Avenue	Pensacola	32514		0	0		
Pensacola Junior College[1]	Lou Ross Bldg	1000 College Avenue	Pensacola	32514		0	0		
Ransom Middle School[1]		1000 West Kingsfield	Cantonment	32533		0	0		
Saufley Field		Saufley Field	Pensacola	32526		0	0		
Scenic Heights Elementary School[1]		3801 Cherry Laurel Drive	Pensacola	32514		0	0		
Scenic Hilss Church		1295 E. Nine Mile Rd	Pensacola	32514	180	0	0		
Sherwood Elementary School[1]	10	501 Cherokee Trail	Pensacola	32506		212	3,643		212
St. Christopher		3200 North 12th Aven	Pensacola	32503	13	0	0		
Tate High School[1]	39/ café	1771 Tate Road	Cantonment	32514	1,250	514	8,200		514
Tate HS	38/ gym	1771 Tate Road	Cantonment	32514		1,300	26,000		1,300
University of West Florida	Bldg 13	11000 University Parkway	Pensacol	32514		389	5,364		389
University of West Florida	X1	11000 University Parkway	Pensacol	32514		0	0		
Warrington Middle School[1]		450 South Old Corry Roa	Pensacola	32507	600	0	0		
Washington High School[1]		6000 College Road	Pensacola	32504	2,000	0	0		
West Florida HS- (former Beggs Voc- B1)	25	2404 Longleaf Drive	Pensacola	32506		0	0		
West Florida HS- (former Beggs Voc- B2)	26	2404 Longleaf Drive	Pensacola	32506		0	0		
West Pensacola High Elementary	3	801 North 49th Ave	Pensacola	32506		215	4,546		215
Woodham High School[1]		150 East Burgess Road	Pensacola	32504	2,000	0	0		
Workman Middle	7	6299 lanier Dr	Pensacola	32504		286	7,150		286
						0	0		
						0	0		
						0	0		
TOTALS FOR ESCAMBIA COUNTY					**15,580**	**12,988**	**253,766**	**3,196**	**12,149**

Year 2006	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	12,988	17,125	-4,137	253,766	342,500	-88,734	DEFICIT	

2006 Statewide Emergency Shelter Plan

ESCAMBIA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
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**
Pensacola Jr College	3	1000 College Avenue	Pensacola	32514	**Yes**	**180**	10,854		180
West Florida High School	25& 26	2404 Longleaf Drive	Pensacola	32506	**No**	**317**	15,358		317

Year 2006	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	497	525	-28	29,820	31,500	-1,680	DEFICIT	

2006 Statewide Emergency Shelter Plan

FLAGLER

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Beller Terre ES	300	5345 Belle Terre Parkway	Palm Coast	32127		202	4,041		
Beller Terre ES	400	5345 Belle Terre Parkway	Palm Coast	32127		180	3,607		
Beller Terre ES	500	5345 Belle Terre Parkway	Palm Coast	32127		435	8,698		
Beller Terre ES	600	5345 Belle Terre Parkway	Palm Coast	32127		170	3,409		
Beller Terre ES	700	5345 Belle Terre Parkway	Palm Coast	32127		97	1,930		
Buddy Taylor Middle School	Main	4500 Belle Terre Parkwa	Palm Coast	32137	1,000	0	0	2,330	
Buddy Taylor Middle School		4500 Belle Terre Parkwa	Palm Coast	32137		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	1,000	128	2,570		128
Matanzas HS	100	3535 Old Kings Road	Palm Coast	32137		1,028	20,562		
Matanzas HS	200	3535 Old Kings Road	Palm Coast	32137		215	4,297		
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	2,000	563	8,446		697
Palm Coast High School	700	3265 East Highway 100	Bunnell	32110		556	8,787		556
Palm Coast High School	800	3265 East Highway 100	Bunnell	32110		556	9,516		556
				TOTALS FOR FLAGLER COUNTY	**7,000**	**4,130**	**75,863**	**3,685**	**1,937**

Year 2006	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	4,130	7,140	-3,010	75,863	142,800	-66,937	DEFICIT

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
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 2006	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	176	-176	0	10,560	-10,560	DEFICIT

2006 Statewide Emergency Shelter Plan

FRANKLIN

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	local planned usage
Apalachicola High School		190 14th St	Apalachicola	32320	350	0	0	350	
Brown Elementary School		85 School Road	Eastpoint	32328	300	0	0	300	
Carabelle High School		1001 Grey Avenue	Carabelle	32322	300	0	0	300	
Chapman Elementary School		155 Ave E	Apalachicola	32320	450	0	0	450	
Church of God		1400 Tallahassee Stree	Carabelle	32322	60	0	0	60	
Church of God		379 Ave A	Eastpoint	32328	90	0	0	100	
Fellowship Baptist Church		706 Ryan Street	Carabelle	32322	100	0	0	100	
First Baptist Church		206 SE Ave A	Carabelle	32322	170	0	0	180	
Lanark Community Church		Spring Street	Lanark Village	32323	75	0	0	75	
First Baptist Church		447 Ave A	Eastpoint	32328	100	0	0	100	
Mormom Church		Prado Street	Apalachicola	32320	30	0	0	60	
Mt Zion Baptist Church		98 Ave E	Apalachicola	32320	100	0	0	100	
United Methodist Church		102 NE Ave E	Carabelle	32322	175	0	0	175	
United Methodist Church		75 5th Street	Apalachicola	32320	60	0	0	60	
						0	0		
				TOTALS FOR FRANKLIN COUNTY	**2,360**	**0**	**0**	**2,410**	**0**

Year 2006	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	1,011	-1,011	0	20,220	-20,220	DEFICIT	

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)	
Uses Regional Shelter									

Year 2006	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	10	-10	0	600	-600	DEFICIT	

2006 Statewide Emergency Shelter Plan

GADSDEN

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacit)
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	
Gadsden High School	600	27001 Blue Star Memorial Hwy	Havana	32333	500	903	15,780		800
Gadsden High School	400	27001 Blue Star Memorial Hwy	Havana	32333		1,194	21,381		
Gadsden High School	500	27001 Blue Star Memorial Hwy	Havana	32333		438	9,031		
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		Gretna	32351		0	0	400	
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	
TOTALS FOR GADSDEN COUNTY					**5,195**	**2,535**	**46,192**	**5,725**	**800**

Year 2006	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	2,535	2,966	-431	46,192	59,320	-13,128	DEFICIT	
Special Needs Storm Shelters								

2006 Statewide Emergency Shelter Plan

GADSDEN									
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									
Year 2006	**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	79	-79	0	4,740	-4,740	DEFICIT		

2006 Statewide Emergency Shelter Plan

GILCHRIST

Name	Bldg. #	Address	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bell Elementary School-Cafetorium	5	NW 10th Street	386	5,790		492
Bell High School -Classroom	14	930 South Main Street	305	6,052		305
Bell High School - Multi-Purpose	16	930 South Main Street	800	20,009		467
Bell High School -Health Academy	20	930 South Main Street	0	0		
Trenton High School - Classroom	27	1013 North Main Street	342	6,329		342
Trenton High School - Classroom	28	1013 North Main Street	396	5,933		455
Trenton High School - Multi-purpose	30	1013 North Main Street	218	3,270		278
Trenton High School - New Gym	34	1013 North Main Street	432	12,368		432
Trenton Elementary School - Cafetorium	2	1350SWSR26	364	5,467		492
			0	0		
TOTALS FOR GILCHRIST COUNTY			**3,243**	**65,218**	**0**	**3,263**

Year 2006	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit (ft2)	Result	
Storm Category 4/5	3,243	2173	21,758	SURPLUS	

Special Needs Storm Shelters

Name	Bldg #	Address	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
Bell HS	20	930 South Main Street	**102**	6,115		**102**

Year 2006	SpNs Shelter Capacity In Spaces (meets ARC 4496)	SpNs Shelter Demand In Spaces	Surplus/ Deficit (ft2)	Result	
Storm Category 4/5	102	35	4,020	SURPLUS	

2006 Statewide Emergency Shelter Plan

GLADES

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
American Legion Hall		600 River Rd	Moore Haven	33471	180	0	0	180	180
Buckhead Ridge Community Center I & II		682 Hwy 78 W	Buckhead Ridge	N/A	99	0	0	97	
Buckhead Ridge V.F.W.		2002 Hwy 78 W	Buckhead Ridge	N/A	35	0	0	155	155
Doyle Conner Agricultural Center		900 Hwy 27	Moore Haven	33471	600	0	0		
Lake Port Community Center		10245 Red Barn Rd NW	Lakeport	33471	100	0	0		
Maple Grove Baptist Church		120 East State Rd 78 West	Lakeport	33471	344	343	5,900		343
Moore Haven Elementary School		401 Terrier Pride Drive SW	Moore Haven	N/A	160	0	0	204	160
Moore Haven High School		700 Terrier Pride Drive SW	Moore Haven	N/A	62	0	0		
Muse Community Center/Volunteer Fire Dept		SR 720 & Rainbow Blvd	Muse	33935	144	144	2,880		144
Muse Community Center (new)		Loblolly Road	Muse	33935	46	0	0		46
Ortona Volunteer Fire Department		3070 Ortona Locks Road	Ortona	N/A	0	0	0		
Palmdale Community Center		7969 Main street NW	Palmdale	N/A	49	0	0		
West Glades Elementary School	3,5	2500 S. COUNTY ROAD 731 SW	Muse	33935	594	594	12,982	594	594
1st United Methodist Church		Ave. L & 3rd Street	Moore Haven	33471	87			87	87
				TOTALS FOR GLADES COUNTY	**2,500**	**1,081**	**21,762**	**1,317**	**1,709**

Year 2006	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	1,081	3320	-2,239	21,762	66,400	-44,638	DEFICIT	

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)	
Muse Community Center (new)		25895 Lobolly Rd	Muse	33935		**0**	0	**50**	**50**

Year 2006	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	10	-10	0	600	-600	DEFICIT	

2006 Statewide Emergency Shelter Plan

GULF

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
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	32465	0	0	0		
Port St. Joe High School		100 Shark Circle	Port St. Joe	32345	0	0	0		
Washington Recreational Center		407 Kenny Street	Port St. Joe	32345	434	0	0		
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
Wewahitchika Comm. Bldg			Wewahitchka	32465		0	600		
				TOTALS FOR GULF COUNTY	**1,531**	**103**	**2,667**	**0**	**103**

Year 2006	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	103	617	-514	2,667	12,340	-9,673	DEFICIT	

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 2006	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	289	-289	0	17,340	-17,340	DEFICIT	

2006 Statewide Emergency Shelter Plan

HAMILTON

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Central Hamilton Elementary Sc	Kinder. #9	Route 2, Box 136	Jasper	32052		119	2,080		119
Greenwood School	3	US 41 North	Jasper	32052		119	2,080		119
Hamilton County Senior High Sc	5	5683 US HIGHWAY 129 SOUTH	Jasper	32052		279	5,589		
Hamilton County Senior High Sc	6	5683 US HIGHWAY 129 SOUTH	Jasper	32052		505	10,101		
Hamilton County Senior High Sc	7	5683 US HIGHWAY 129 SOUTH	Jasper	32052		112	2,239		
Hamilton County Senior High Sc	8	5683 US HIGHWAY 129 SOUTH	Jasper	32052		304	6,071		
North Hamilton Elementray Scho	2	1291 Florida Street	Jennings	32053		119	2,080		119
Stephen Foster Memorial		Robert & Spring Street	White Spring	32096		0	0		
VFW Post 8095		N/A	Jasper	32052		0	0		
Town of Jennings	EOC/Fire		Jennings			144	2,880		144
						0	0		
				TOTALS FOR HAMILTON COUNTY	**0**	**1,701**	**33,120**		**501**

Year 2006	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	1,701	1,482	219	33,120	29,640	3,480	SURPLUS	

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
Suwannee Valley Nursing Center					**No**	**0**	0	**20**	20

Year 2006	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	26	-26	0	1,560	-1,560	DEFICIT	

2006 Statewide Emergency Shelter Plan

HARDEE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bowling Elementary School	18	4530South Church Street	Bowling Green	33834	750	132	1,985	750	147
Bowling Elementary School	18	4530South Church Street	Bowling Green	33834		0	0		
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	N/A		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	N/A		0	0		
New Zion African Methodist Church		1607 Martin Luther King Jr. Ave	Wauchula	33873	120	0	0	120	
North Wauchula Elementary Scl	3	1120 North Florida Avenue	Wauchula	33873	1,500	138	2,071	1,500	147
Wauchula Elementary School		400 South Florida Avenue	Wauchula	33873	2,500	0	0	2,500	
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 Schoc	10	3215 Schoolhouse Road	Zolfo Springs	N/A	800	287	3,728	800	220
South Florida Comm. College		2968 US17N	Bowling Green	338344		0	0		
Wauchula Jhs	ESE-900	300 South Florida Avenue	Wauchula	33873	605	0	0	0	
Wauchula Jhs	media-1500	300 South Florida Avenue	Wauchula	33873	148	0	0	0	
Wauchual ES	ESE/ 500	400 South Florida Avenue	Wauchula	33873		0	0	606	
Wauchula ES	Media/ 600	400 South Florida Avenue	Wauchula	33873		0	0	149	
				TOTALS FOR HARDEE COUNTY	**8,923**	**557**	**7,784**	**8,925**	**514**

Year 2006	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	10,124	-9,567	7,784	202,480	-194,696	DEFICIT	

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
South Florida Comm. College		2968 US17N	Bowling Green	338344	**No**	**75**	4,500		75

Year 2006	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	65	10	4,500	3,900	600	SURPLUS	

2006 Statewide Emergency Shelter Plan

HENDRY

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*[1]	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned usage (reported capacity)
Clewiston Central ES	Café	1000 South Dean Duff Ave	Clewiston	33440	293	0	0	365	
Clewiston Eastside ES		201 West Arroyo Avenue	Clewiston	33440	0	0	0		
Clewiston HS	8	1501 South Francisco	Clewiston	33440	717	0	0	500	
Clewiston HS	10	1501 South Francisco	Clewiston	33440		0	0	337	
Clewiston HS	100	1501 South Francisco Street	Clewiston	33440	333	306	4,597		333
Clewiston HS	900	1501 South Francisco Street	Clewiston	33440	259	238	3,565		259
Clewiston MS	27	601 West Osceola	Clewiston	33440		0	0	163	
Clewiston MS	30	601 West Osceola Avenue	Clewiston	33440	166	166	2,972		166
Clewiston MS	31	601 West Osceola Avenue	Clewiston	33440	538	538	10,760		538
Clewiston MS	32	601 West Osceola Avenue	Clewiston	33440	468	468	7,015		468
Clewiston MS	33	601 West Osceola Avenue	Clewiston	33440	241	241	3,808		241
Clewiston MS	34	601 West Osceola Avenue	Clewiston	33440	241	241	3,799		241
Clewiston MS	Gym	601 West Osceola	Clewiston	33440	442	500	11,314		500
Clewiston Westside ES	West	205 West Arroyo Avenue	Clewiston	33440	157	0	0	235	
Country Oaks ES	1	2025 NW Eucalyptus Blvd	LaBelle	33935	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	175	0	0		39
LaBelle Civic Center		400 Hickpochee Avenue	LaBelle	33935	209	0	0	313	
LaBelle ES	5	West Cowboy Way	LaBelle	33935	188	0	0	282	
LaBelle HS	2	4050 East Cowboy Way	LaBelle	33935		0	0	282	
LaBelle HS	3	4050 East Cowboy Way	LaBelle	33935	909	0	0	371	
LaBelle MS	Gym	West Cowboy Way	LaBelle	33935	333	500	10,532		500
Lablelle MS	1	8000 East Cowboy Way	Labelle	33935	215	215	3,609		215
Lablelle MS	2	8000 East Cowboy Way	Labelle	33935	172	172	3,825		172
Lablelle MS	3	8000 East Cowboy Way	Labelle	33935	442	442	9,544		442
Lablelle MS	4	8000 East Cowboy Way	Labelle	33935	334	334	5,478		334
Lablelle MS	6	8000 East Cowboy Way	Labelle	33935	481	481	7,858		481
Pioneer Plantation Community Center		Panama Drive	Clewiston	33440	80	0	0	120	
Seminole Tribe of Florida	1					484	9,680		484
Seminole Tribe of Florida	2					262	5,240		262
Seminole Tribe of Florida	3					193	3,860		193
Upthegrove ES	23	280 North Main Street	Labelle	33935	368	368	7,360		368
VFW Post 10100		SR29	LaBelle	33935		0	0		43
				TOTALS FOR HENDRY COUNTY	**8,132**	**6,149**	**114,816**	**3,524**	**6,279**

Year 2006	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	6,149	4734	1,415	114,816	94,680	20,136	SURPLUS

Special Needs Storm Shelters

2006 Statewide Emergency Shelter Plan

HENDRY									
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**
VFW Post 10100		SR29	LaBelle	33935	**Yes**	**28**	1,680		**43**
John Boy Auditorium	BeardslyRm	1300 South WC Owens Ave	Clewiston	33440	**Yes**	**26**	1,564		**39**

Year 2006	**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	54	20	34	3,240	1,200	2,040	SURPLUS

2006 Statewide Emergency Shelter Plan

HERNANDO

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Brooksville Elementary School- Bldgd 2B	2B	250 East Kelly Street	Brooksville	34601	14,185	0	0	0	
Brooksville Elementary School - Bldg. 8H	8H	250 East Kelly Street	Brooksville	34601	4,829	0	0	0	
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	13400 Elgin	Spring Hill	34609-0401		2,000	40,000		2,000
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	5,603	361	9,033	0	280
Chocachatti Elementary School - Bldg. 5	5	4135 California Street	Brooksville	34609	5,836	357	8,923	0	292
Chocachatti Elementary School - Bldg. 6	6	4135 California Street	Brooksville	34609					
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	8,157	408	7,599	0	408
Deltona Elementary School - Bldg. 400	400	2055 Deltona Boulevard	Springhill	N/A	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	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		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	N/A	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	5,283	264	4,494		264
Moton School Center - Bldg. 500	500	7175 Emerson Road	Brooksville	34601	5,865	0	0	293	
Nature Coast Tech High	Gym	4057 California Street	Brooksville	34604		779	11,696		800
Parrot Middle School - Bldg. 2	2	19220 Youth Drive	Brooksville	34601	8,010	0	0		
Parrot Middle School - Bldg. 3	3	19220 Youth Drive	Brooksville	34601	9,710	0	0		
Pasco/Hernando Community College - Bldg. 1A	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	N/A	8,150	0	0		
Powell Middle School - Bldg. 400	400	14400 Powell Road	Brooksville	N/A	4,233	0	0		
Powell Middle School - Bldg. 500	500	14400 Powell Road	Brooksville	N/A	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 Maniner Boulevard	Springhill	N/A	7,125	0	0		
Springstead High School - Bldg. 1c	1c	2300 Maniner Boulevard	Springhill	N/A	5,440	0	0		
Springstead High School - Bldg. 1g	1G	2300 Maniner Boulevard	Springhill	N/A	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	4,902	0	0		
West Hernando Middle School - Bldg. 300	300	9412 Fox Chapel Lane	Springhill	N/A	11,092	0	0		
West Hernando Middle School - Bldg. 400	400	9412 Fox Chapel Lane	Springhill	N/A	11,010	0	0		

2006 Statewide Emergency Shelter Plan

HERNANDO									
West Hernando Middle School - Bldg. 600	600	9412 Fox Chapel Lane	Springhill	N/A	6,647	0	0		
West Hernando Middle School - Bldg. 800	800	9412 Fox Chapel Lane	Springhill	N/A	11,050	0	0		
Westside Elementary School - Bldg. 4	4	5400 Applegate Drive	Springhill	34606	7,990	0	0		
TOTALS FOR HERNANDO COUNTY					**294,792**	**4,457**	**86,239**	**940**	**4,332**

Year 2006	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	4,457	16,227	-11,770	86,239	324,540	-238,301	DEFICIT

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**
West Hernando Middle School	6	9412 Fox Chapel Lane	Springhill	N/A	**No**	**178**	10,704		**178**
West Hernando Middle School	8	9412 Fox Chapel Lane	Springhill	N/A	**No**	**213**	12,796		**213**

Year 2006	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	391	289	102	23,460	17,340	6,120	SURPLUS

2006 Statewide Emergency Shelter Plan

HIGHLANDS

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Apostolic Church of Jesus		956Carolina Avenue	Avon Park	33825	107	0	0	107	
Agri-Civic Center		4505 George Blvd	Sebring		506	0	0	126	
Avon Elementary School Cafeteria	10-Cafeteria	705 West Winthrop	Avon Park	33825	165	249	7,654		249
Avon Park High School		700 East Main Street	Avon Park	33825	1,250	0	0	625	
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		365	8,600	0	365
Avon Park Recreation		207 East State St	Avon Park	33825	602	554	13,040	0	554
Cracker Trail Elementary School		8200 Sparta Road	Sebring	33870	235	0	0	118	
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	205	249	7,654		249
Highlands County Health Depat		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		101 Green Dragon Drive	Lake Placid	33852	205	0	0	103	
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	
St. Johns United Methodist Church		3214 Grand Prix Drive	Sebring	33872	40	0	0	40	
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	1,260	220	6,780		220
Sebring Middle School		500 East Center	Sebring	33870	1,133	0	0	633	
Skate Center		125 Commerece	Lake Placid	33852	75	0	0	38	
South Florida Community College	Bldg a	600 West College Dr	Avon Park	33825	680	217	6,680	0	217
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	180	249	7,654	90	249
				TOTALS FOR HIGHLANDS COUNTY	**12,855**	**2,103**	**58,062**	**4,981**	**2,103**

Year 2006	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	2,103	23,059	-20,956	58,062	461,180	-403,118	DEFICIT

Special Needs Storm Shelters

2006 Statewide Emergency Shelter Plan

HIGHLANDS									
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**
Highlands Agri-Civic Center		4505 George Blvd	Sebring		**No**	**0**	0	**42**	**0**
							0		

Year 2006	**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	DEFICIT

HILLSBOROUGH

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Survedy)*	Local Planned Usage (reported capacity)
Adams Middle	11	10201 N. Boulevard	Tampa	33612		181	3,628		181
Adams Middle	7/Gym	10201 N. Boulevard	Tampa	33612	1,100	465	9,300		465
Benito Elementary	2,3,6	10101 Cross Creek Blvd	Tampa	33647	2,790	1,811	36,220		1,811
Bevis Elementary (EHPA)	2	5720 Osprey Ridge Dr	Lithia	33547	5,000	411	8,220		411
Bevis Elementary (EHPA)	3	5720 Osprey Ridge Dr	Lithia	33547		411	8,220		411
Bloomingdale High	13	1700 E. Bloomingdale Ave	Valrico	33594	7,200	828	16,560		828
Bryant Elementary	2,3	13910 Nine Eagles Rd	Tampa	33626		1,169	23,380		1,169
Burnett Middle	1,2,3	1010 N. Kingsway Rd	Seffner	33584	2,600	1,328	26,560		1,328
Carrollwood ES	18	3516 MACFARLAND ROAD	Tampa	33618		470	3,052		470
Chiles Elementary (EHPA)	2	16541 Tampa Palms Blvd	Tampa	33647		729	14,580		729
Chiles Elementary (EHPA)	3	16541 Tampa Palms Blvd	Tampa	33647		729	14,580		729
Church Of Jesus Christ LDS		8020 Gunn Hwy	Tampa	33626	2,000	0	0	200	0
Cimino Elementary	2,3	4329 Culbreath Rd	Valrico	33594		1,556	31,120		1,556
Collins ES	3	12424 SUMMERFIELD BOULEVAR	Riverview	33569		1,968	39,357		1,968
Corr Elementary (EHPA)	3,4		Ruskin	33570		890	17,800		890
Crestwood ES	13	7824 N. Manhattan Ave	Tampa	33614	19,950	995	19,900		995
Cypress Creek Elementary	Cafeteria	4040 19th Ave N.E.	Ruskin	33570	1,295	0	0	76	0
Durant High	1,2,3,4,5,6,7	4748 Cougar Path	Plant City	33567	3,941	2,116	42,320		2,116
Edison Elementary	5	1607 E. Curtis St	Tampa	33610		412	8,240		412
Edison Elementary	6	1607 E. Curtis St	Tampa	33610		226	4,520		226
Eisenhower Middle (EHPA)	Gym	7620 Big Bend Rd	Gibsonton	33534		485	9,700		485
Eisenhower MS	2					482	9,640		482
Eisenhower MS	5					252	5,040		252
Elementary "U"					2,100	1,500	30,000		1,500
Erwin Technical Center		2010 E. Hillsborough Ave	Tampa	33610		0	0		0
Essrig Elementary	10	13031 Lynn Rd	Tampa	33624	1,163	441	8,820		441
Fish Hawk Elementary (EHPA)	2					725	14,500		725
Fish Hawk Elementary (EHPA)	3					725	14,500		725
Forest Hills Elementary	ESE	10112 N. Ola Ave	Tampa	33612		646	12,920		646
Forest Hills Elementary	Music	10112 N. Ola Ave	Tampa	33612		244	4,880		244
Freedom High	3	17410 Commerce Park Blvd	Tampa	33647		321	5,420		321
Freedom High	6	17410 Commerce Park Blvd	Tampa	33647		348	6,960		348
Freedom High	9	17410 Commerce Park Blvd	Tampa	33647		624	12,480		624
Freedom High	10	17410 Commerce Park Blvd	Tampa	33647		887	17,740		887
Frost ES	3	3950 SOUTH FAULKENBURG ROA	RIVERVIEW	33569		356	7,130		356
Frost ES	4	3950 SOUTH FAULKENBURG ROA	RIVERVIEW	33569		422	8,433		422
GIUNTA MIDDLE SCHOOL	1	4202 SOUTH FAULKENBURG ROA	TAMPA	33619		3,537	70,735		3,537
Greco Middle (EHPA)	Gym	6925 E. Fowler	Temple Terrace	33617	1100	800	16,000		800
Heritage Elementary (EHPA)	3,4	10900 Cross Creek Blvd	Tampa	33647	1783	1,535	30,700		1,535
Ippolito Elementary (EHPA)	2,3	6874 S. Falkenburg Rd	Riverview	33569	2168	1,458	29,160		1,458
James Elementary (EHPA)	9	4302 E. Ellicot St	Tampa	33610		345	6,900		345
Jennnings Middle (EHPA)	3,4	8799 Williams Rd	Seffner	33584	2060	2,049	40,980		2,049
Lake Magdelene ES	14	2002 Pine Lake Dr	Tampa	33612	1200	455	9,100		455
Lennard HS	2	2002 SHELL POINT ROAD	Ruskin	33570		256	5,120		256
Lennard HS	7	2002 SHELL POINT ROAD	Ruskin	33570		415	8,302		415
Lennard HS	8	2002 SHELL POINT ROAD	Ruskin	33570		269	5,387		269

2006 Statewide Emergency Shelter Plan

HILLSBOROUGH									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)*	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Survedy)*	**Local Planned Usage (reported capacity)**
Lewis Elementary	New Addition	6700 E. Whiteway Dr	Temple Terrace	33617		297	5,940		297
Liberty Middle	7	17400 Commercr Park Blvd	Tampa	33647		707	14,140		707
Limona ES	9	1115 TelFair	Brandon	3350	2025	184	3,680		184
Lockhart Elementary	2	3719 N. 17th St	Tampa	33610	308	308	6,160		308
Lockhart Elementary	5	3719 N. 17th St	Tampa	33610	408	408	8,160		408
Lomax Elementary (EHPA)	4	4207 N. 26th St	Tampa	33610		465	9,300		465
Mann MS	Gym					408	8,160		408
Marshall Middle	13	18 S. Maryland Ave	Plant City	33563		225	4,500		225
Martinez Middle	3	5601 Lutz Lake Fern Rd	Lutz	33558		948	18,960		948
Martinez Middle	4	5601 Lutz Lake Fern Rd	Lutz	33558		958	19,160		958
McClane MS	Gym					403	8,060		403
McKitrick Elementary (EHPA)	2,3	5503 Lutz Lake Fern Rd	Lutz	33549	1,375	1,451	29,020		1,451
McLane MS	20	306 N. Knight	Brandon	33610	3,130	1,071	21,420		1,071
Memorial Middle	Gym	4702 N. Cent	Tampa	33603	116	800	16,000		800
Middleton High (EHPA)		4801 North 22nd Street	Tampa	33610	5,000	2,298	45,960		2,298
Mort Elementary	4	1806 E. Bearss Ave	Tampa	33613		355	6,700		355
Muller Elementary (EHPA)	4	13615 N. 22nd St	Tampa	33613		310	6,200		310
Mulrennan Middle	2,4,6	4215 Durant Rd	Valrico	33594	6,000	2,250	45,000		2,250
Nelson Elementary (EHPA)	2,3	5413 Durant Rd	Dover	33527	2,168	1,910	38,200		1,910
Newsome High (EHPA)	2,7,8	16550 Fish Hawk Blvd	Lithia	33547	10,000	1,586	31,720		1,586
Pizzo Elementary	2,3,4	11701 Bull Run Rd	Tampa	33617		1,595	31,900		1,595
Plant City High	13	1 Raider Pl	Plant City	33566	6,500	399	7,980		399
Potter Elementary	11	3224 E. Cayuga St	Tampa	33610		253	5,060		253
Potter Elementary	13	3224 E. Cayuga St	Tampa	33610		253	5,060		253
Pride Elementary (EHPA)	3,4	18271 Kinnan St	Tampa	33647	2,500	1,114	22,280		1,114
Randall Middle	1,3	16510 Fish Hawk Blvd	Lithia	33547	5,500	813	16,260		813
Riverview High, Building #10	10	11311 Boyette Rd	Riverview	33569		350	7,000		350
Riverview Hs	5	11311 Boyette Rd	Riverview	33569		872	17,440		872
Riverview Hs	10	11311 Boyette Rd	Riverview	33569		0	0		0
Robinson ES	12	4801 S. Turkey Creek Rd	Plant City	33567	563	563	11,260		563
Robles ES	15	4405 E. Sligh Ave	Tampa	33610	351	351	7,020		351
Robles ES	16	4405 E. Sligh Ave	Tampa	33610	171	171	3,420		171
Rodgers Middle	1,2,3	11910 Tucker Rd	Riverview	33569	1,667	1,243	24,860		1,243
Schmidt Elementary	3	1250 Williams Rd	Brandon	33510	2,659	890	17,800		890
Sessums Elementary (EHPA)	2,3	11525 Ramble Creek Dr	Riverview	33569		2,099	41,980		2,099
Sheehy Elementary (EHPA)	4	N. 40th St	Tampa	33610		625	12,500		625
Shields Middle (EHPA)	3	3908 N.E. 19th Ave	Ruskin	33570		1,025	20,500		1,025
Shields Middle (EHPA)	4	3908 N.E. 19th Ave	Ruskin	33570		1,025	20,500		1,025
Sickles High	3,7	7950 Gunn Hwy	Tampa	33626	4,000	961	19,220		961
Simmons Center (EHPA)	1	901 South Evers St	Plant City	33566		425	8,500		425
Sligh MS	15	2011 E. Sligh Ave	Tampa	33610	510	589	11,780		589
SPOTO HIGH SCHOOL	3	8538 EAGLE PALM DRIVE	Riverview	33569		820	16,402		820
SPOTO HIGH SCHOOL	4	8538 EAGLE PALM DRIVE	Riverview	33569		1,347	26,930		1,347
Sulphur Springs ES	1	8412 N. 13th St	Tampa	33604	1534	1,534	30,680		1,534
SYMMES ELEMENTARY	3	6280 WATSON ROAD	RIVERVIEW	33569		350	7,002		350
SYMMES ELEMENTARY	4	6280 WATSON ROAD	RIVERVIEW	33569		337	6,749		337

2006 Statewide Emergency Shelter Plan

HILLSBOROUGH

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Survedy)*	Local Planned Usage (reported capacity)
Tampa Bay Blvd. Elementary	3	3111 Tampa Bay Blvd	Tampa	33607		507	10,140		507
Tampa Bay Blvd. Elementary	4	3111 Tampa Bay Blvd	Tampa	33607		412	8,240		412
Tampa Bay Blvd. Elementary	6	3111 Tampa Bay Blvd	Tampa	33607		226	4,520		226
Tomlin Middle	10	501 N. Wilson St	Plant City	33563		439	8,780		439
Turkey Creek Middle	8	5005 S. Turkey Creek Rd	Plant City	33567		594	11,880		594
Turner ES	2	9190 IMPERIAL OAK BOULEVARD	TAMPA	33614		349	6,972		349
Turner ES	3	9190 IMPERIAL OAK BOULEVARD	TAMPA	33614		340	6,792		340
USF Sun Dome		4202 E. Fowlwr Ave	Tampa	33620		0	0		0
Valrico ES	3 (1st flr)	609 S. Miller Rd	Valrico	33594	423	423	8,460		423
Valrico ES	4 (1st flr)	609 S. Miller Rd	Valrico	33594	480	480	9,600		480
Walker Middle	2	8282 N. Mobley Rd	Odessa	33556	2,404	1,527	30,540		1,527
Walker Middle	3	8282 N. Mobley Rd	Odessa	33556	2,404	0	0		0
Wharton High	2,3,4,9	20150 Bruce B. Downs Blvd	Tampa	33647	4,000	1,866	37,320		1,866
Whitley Bowers Career Center (	7	13609 N. 22nd St	Tampa	33613	3,500	275	5,500		275
Williams MS	2	5020 N. 47th	Tampa	33610	3535	650	13,000		650
Wilson ES	3	702 English St	Plant City	33563	721	721	14,420		721
Young MS	8	1807 E. Dr. MLK Blvd	Tampa	33610	527	527	10,540		527
						0	0		
						0	0		
				TOTALS FOR HILLSBOROUGH COUNTY	**131,929**	**82,954**	**1,651,331**	**276**	**82,954**

Year 2006	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	82,954	121,213	-38,259	1,651,331	2,424,260	-772,929	DEFICIT	

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
Erwin Tech		2010 E. Hillsborough Ave	Tampa	33610	**Yes**	**0**	0	**500**	
Riverview HS	10	11311 Boyette Rd	Riverview	33569	**Yes**	**233**	13,980		233
USF Sun Dome		4202 E. Fowlwr Ave	Tampa	33620	No	1,000	60,000		1,000
Project 1					No	0	0		
Project 2					No	0	0		

Year 2006	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	1,233	914	319	73,980	54,840	19,140	SURPLUS	

2006 Statewide Emergency Shelter Plan

HOLMES

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bethleham High School		Rt 3 Box 385 Hwy 177	Bonifay	32425	1,905	0	0	0	
Bonifay Middle School		401 McLaghlin Avenue	Bonifay	32425	356	0	0	356	
Holmes High School		825 West Hwy 90	Bonifay	32425	942	0	0	0	
Holmes County Agricultural Center		Rt 1 Box 408 Hwy 90 E	Bonifay	32425	436	0	0	0	
Ponce De Leon Elementary School		Rt 2 Box 2236 Hwy 81 N	Ponce de Leon	32455	195	0	0	0	
Ponce De Leon High School - Gym		PO Box 39 Hwy 81 N	Ponce de Leon	32425	515	0	0	0	
Poplar Springs HS (new)- Gym	3 (non-SpNs)	ROUTE 2 BOX 88	Graceville	32440		612	12,244		
Poplar Springs HS (new)- Classroor	4	ROUTE 2 BOX 88	Graceville	32440		225	4,364		
Poplar Springs HS (new)- Classroor	5	ROUTE 2 BOX 88	Graceville	32440		225	4,501		
Poplar Springs HS (new)- Classroor	6	ROUTE 2 BOX 88	Graceville	32440		365	7,293		
Poplar Springs HS(new)- Cafeteria	7	ROUTE 2 BOX 88	Graceville	32440	1400	412	6,183		850
New Hope VFD		1243 Hwy 179-A	Westville	32464	179	179	3,585		179
				TOTALS FOR HOLMES COUNTY	**5,928**	**2,018**	**38,170**	**356**	**1,029**

Year 2006	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	2,018	1441	577	38,170	28,820	9,350	SURPLUS

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
Poplar Springs HS	Gym/3 (part of it)	ROUTE 2 BOX 88	Graceville	32440	**Yes**	**38**	2,280		**38**
							0		
							0		
							0		
							0		

Year 2006	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	SURPLUS

2006 Statewide Emergency Shelter Plan

INDIAN RIVER

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Fellsmere Elementary School	700	50 North Cypress Street	Fellsmere	32948	108	570	8,041	0	570
Gifford Middle School	600	2726 45th Street	Vero Beach	32967	0	159	1,982	0	159
Gifford Middle School	1200	2726 45th Street	Vero Beach	32967	0	168	4,383	0	168
Gifford Middle School	Gym	2726 45th Street	Vero Beach	32967	240	0	0	0	
Glendale Elementary School	3	4940 8th Street	Vero Beach	32960	106	0	0	146	
Glendale Elementary School	4	4940 8th Street	Vero Beach	32960	44	0	0	44	
Highlands Elementary School	1	500 SW 20th Street	Vero Beach	32962	106	0	0	190	
Highlands Elementary School	2	500 SW 20th Street	Vero Beach	32962	0	0	0	415	
Highlands Elementary School	3	500 SW 20th Street	Vero Beach	32962	0	0	0	403	
J. A. Thompson Elementary School	MultPur.	1110 18th Avenue SW	Vero Beach	32962	158	0	0	1,106	
Liberty Magnet School	all	8955 85th Street	Sebastian	32958	500	0	0		500
Oslo Middle School	200	480 SW 20th Street	Vero Beach	32962	0	579	10,750	0	579
Oslo Middle School	500	480 SW 20th Street	Vero Beach	32962	0	158	2,055	0	158
Oslo Middle School	600	480 SW 20th Street	Vero Beach	32962	0	243	7,127	0	243
Oslo Middle School	700	480 SW 20th Street	Vero Beach	32962	0	579	10,660	0	579
Oslo Middle School	900	480 SW 20th Street	Vero Beach	32962	0	580	10,675	0	580
Oslo Middle School	Gym	480 SW 20th Street	Vero Beach	32962	377	0	0	0	
Pelican Island Elementary School	1	1355 Schumann Drive	Sebastian	32958	0	0	0	131	
Pelican Island Elementary School	1a	1355 Schumann Drive	Sebastian	32958	0	0	0	280	
Pelican Island Elementary School	1b	1355 Schumann Drive	Sebastian	32958	0	0	0	494	
Pelican Island Elementary School	Dining Area/Stage	1355 Schumann Drive	Sebastian	32958	102	0	0	102	
Pelican Island Elementary School	MultPur.	1355 Schumann Drive	Sebastian	32958	61	61	999	61	61
Pelican Island Elementary School	Music Room	1355 Schumann Drive	Sebastian	32958	0	0	0	31	
Sebastian Elementary School	900	400 CR 512	Sebastian	32958	114	371	4,800	1,470	371
Sebastian River High School	A	9001 90th Avenue	Sebastian	32958	303	0	8,072	0	
Sebastian River High School	C	9001 90th Avenue	Sebastian	32958	0	0	6,450	0	
Sebastian River High School	F	9001 90th Avenue	Sebastian	32958	0	0	7,600	0	
Sebastian River High School	G	9001 90th Avenue	Sebastian	32958	0	0	5,011	0	
Sebastian River High School	Gym	9001 90th Avenue	Sebastian	32958	393	0	0	0	
Sebastian River High School	J	9001 90th Avenue	Sebastian	32958	0	0	7,212	0	
Sebastian River High School	K	9001 90th Avenue	Sebastian	32958	0	0	735	0	
Sebastian River High School	L	9001 90th Avenue	Sebastian	32958	0	0	6,077	0	
Sebastian River High School	M	9001 90th Avenue	Sebastian	32958	0	0	7,337	0	
Sebastian River High School	N	9001 90th Avenue	Sebastian	32958	0	0	9,595	0	
Sebastian River High School	V	9001 90th Avenue	Sebastian	32958	0	680	13,600	0	
Sebastian River Middle School	All	9400 CR 512	Sebastian	32968	0	1,499	59,801	0	1,499
Sebastian River Middle School	Gym	9400 CR 512	Sebastian	32968	300	0	0	0	
Sebastian Senior Center	Center	815 Davis Str	Sebastian	32958	0	140	2,800	0	140
Vero Beach High School		1707 16th Street	Vero Beach	32960	627	0	0	929	
Vero Beach High School Freshman	All	1507 19th Street	Vero Beach	32960	0	1,499	51,223	0	1,499
Vero Beach High School Freshman	Gym	1507 19th Street	Vero Beach	32960	304	0	0	0	
						0	0		

2006 Statewide Emergency Shelter Plan

INDIAN RIVER

						0	0		
					TOTALS FOR INDIAN RIVER COUNTY	**3,843**	**7,286**	**246,985**	**5,802**	**7,106**

Year 2006	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	4,875	2,411	246,985	97,500	149,485	SURPLUS	

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
Liberty Magnet	all	8955 85th Street	Sebastian	32958	**No**	**582**	34920		582
							0		
							0		
							0		

Year 2006	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	582	449	133	34,920	26,940	7,980	SURPLUS	

2006 Statewide Emergency Shelter Plan

JACKSON

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Cottondale High School		2680 Levy Street	Cottondale	32431	1,162	0	0		
Graceville Civic Center		Highway 169	Graceville	32440	189	0	0		
Graceville High School		5539 Brown Street, Hwy	Graceville	32440	516	0	0		
Grand Ridge High School		6925 Florida Street	Grand Ridge	32442	431	0	0		
Marianna High School		2979 Daniels Street	Marianna	32446	705	0	0		
new Marianna High School	Area A	Caverns RD	Marianna	32448		354	8,949		354
new Marianna High School	Area B	Caverns RD	Marianna	32448		1,062	15,932		1,429
new Marianna High School	Area C	Caverns RD	Marianna	32448		284	5,683		284
new Marianna High School	Area D/D1	Caverns RD	Marianna	32448		354	7,071		354
new Marianna High School	Area E	Caverns Rd	Marianna	32448		253	5,841		253
new Marianna High School	Area F/F1	Caverns RD	Marianna	32448		228	4,565		228
Sneads High School		8066 Old Spanish	Sneads	32460	518	0	0		
Chipola Junior College	PSC		marianna	32448		499	9,980		499
Family Service Center	1					0	0		
Golson ES	East					0	0		
Golson ES	West					0	0		
						0	0		
						0	0		
TOTALS FOR JACKSON COUNTY					**3,521**	**3,034**	**58,021**	**0**	**3,401**

Year 2006	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	3,740	-706	58,021	224,400	-166,379	DEFICIT

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)	locla planned usage
New Marianna Hs	Area B (part of area	Caverns RD	Marianna	32448	**No**	**33**	1,980		**33**

Year 2006	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	249	-216	1,980	14,940	-12,960	DEFICIT

2006 Statewide Emergency Shelter Plan

JEFFERSON

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
First Baptist Church		325 West Washington St	Monticello	32344	100	0	0	100	
First United Methodist Church		325 West Walnut Street	Monticello	32344	75	0	0	75	
Jefferson County High School		555 Tiger Lane	Monticello	32344	300	0	0	300	
Mormon Church		Spring Hollow Road	Monticello	32344	40	0	0	40	
New Jefferson County High	Gym & Café	BOLTON ROAD	Bolton	32344		809	14,790		809
						0	0		
						0	0		
TOTALS FOR JEFFERSON COUNTY					**515**	**809**	**14,790**	**515**	**809**

Year 2006	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	809	1035	-226	14,790	20,700	-5,910	DEFICIT

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)
Uses Regional Shelter							0	
							0	

Year 2006	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	18	-18	0	1,080	-1,080	DEFICIT

2006 Statewide Emergency Shelter Plan

LAFAYETTE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
4th District Community Ctr- 16 miles East of Mayo		Hwy 27 South	Mayo	32066	122	0	0	0	
Airline Community Ctr - 5 miles East of Mayo		Hwy 27 South	Mayo	32066	42	0	0	0	
Day Community Center - North of Day		CR 53	Mayo	N/A	205	0	0	0	
Lafayette High School, Cafeteria	2-cafeteria	US 27 East	Mayo	32066	392	238	3,576		278
Lafayette High School Gym	32-gym	US 27 East	Mayo	32066	450	0	0	450	
Mayo Community Ctr - 1 mile West of Mayo		Hwy 27 North	Mayo	32066	183	0	0	0	
Oakridge Assisted Living		1343 Johns St	Mayo	32066		90	3,600		90
						0	0		
				TOTALS FOR LAFAYETTE COUNTY	**1,394**	**328**	**7,176**	**450**	**368**

Year 2006	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	328	932	-604	7,176	18,640	-11,464	DEFICIT	

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		

Year 2006	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	5	-5	0	300	-300	DEFICIT	

2006 Statewide Emergency Shelter Plan

LAKE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Astatula Elementary School for the Arts	1	13925 Florida Avenue	Astatula	34705	0	0	0		188
Astatula Elementary School for the Arts	2	13925 Florida Avenue	Astatula	34705	0	358	6,158		358
Astatula Elementary School for the Arts	3	13925 Florida Avenue	Astatula	34705	0	274	6,820		274
Beverly Shores Elementary School	14	1108 West Griffin Road	Leesburg	34745	0	205	5,127		197
Beverly Shores Elementary School	15	1108 West Griffin Road	Leesburg	34745	0	333	5,597		333
Beverly Shores Elementary School	16	1108 West Griffin Road	Leesburg	34745	0	187	4,702		187
Carver Middle School	2	1200 N. Beecher Street	Leesburg	34745	0	1,009	19,037		1,009
Carver Middle School	3	1200 N. Beecher Street	Leesburg	34745	0	504	9,997		504
Carver Middle School	5	1200 North Beecher Street	Leesburg	34745	0	737	11,054		986
Eustis High School	3	1300 East Washinton Avenu	Eustis	32726	0	463	11,465		463
Eustis Middle School	?	18725 East Bates Avenue	Eustis	32726	0	632	12,640		632
Fruitland Park Elementary School	12	304 West Fountain Street	Fruitland Park	34731	0	272	6,287		272
Leesburg Elementary School	1	2229 South Street	Leesburg	34748	0	0	0		61
Leesburg Elementary School	2	2229 South Street	Leesburg	34748	364	0	0		
Leesburg Elementary School	3	2229 South Street	Leesburg	34748	0	282	6,327		282
Leesburg Elementary School	4	2229 South Street	Leesburg	34748	0	222	4,929		222
Leesburg Elementary School	5	2229 South Street	Leesburg	34748	276	0	0		
Leesburg Elementary School	6	2229 South Street	Leesburg	34748	0	243	3,732		243
Leesburg High School	1	1401 West Meadows Drive	Leesburg	34748	682	0	0		
Leesburg High School	25	1401 West Meadows Avenu	Leesburg	34748	0	1,063	21,260		1,063
Lost Lake Elementary School	1	1901 Johns Lake Road	Clermont	34711	0	0	0		78
Lost Lake Elementary School	2	1901 Johns Lake Road	Clermont	34711	0	409	6,158		409
Lost Lake Elementary School	3	1901 Johns Lake Road	Clermont	34711	0	287	6,820		287
Lost Lake Elementary School	?	1901 Johns Lake Road	Clermont	34711	0	0	0		
Minneola Elementary School	?	300 East Pearl Street	Minneola	34755	0	500	10,000		500
Mount Dora High School	1	700 North Highland Avenue	Mount Dora	32757	954	0	0		
Mount Dora High School	5	700 North Highland Avenue	Mount Dora	32757	0	361	7,220		361
Mount Dora High School	6	700 North Highland Avenue	Mount Dora	32757	0	869	17,380		869
Mount Dora High School	7	700 North Highland Street	Mount Dora	32757	0	428	10,691		414
Mount Dora High School	8	700 North Highland Avenue	Mount Dora	32757	99	0	0		
Mount Dora High School	9	700 North Highland Avenue	Mount Dora	32757	0	543	10,929		543
North Lake Education Center	99	42630 Highway 19	Altoona	32702	75	0	0		
Pine Ridge Elementary	1	10245 CR 561	Clermont	34711		109	1,640		175
Pine Ridge Elementary	3	10245 CR 561	Clermont	34711		267	5,580		267
Pine Ridge Elementary	4	10245 CR 561	Clermont	34711		222	4,937		222
Pine Ridge Elementary	6	10245 CR 561	Clermont	34711		232	3,732		232
Round Lake Elementary School	1	31333 Round Lake Road	Mt. Dora	32757	0	0	0		183
Round Lake Elementary School	2	31333 Round Lake Road	Mt. Dora	32757	167	0	0		
Round Lake Elementary School	3	31333 Round Lake Road	Mt. Dora	32757	0	282	5,580		282
Round Lake Elementary School	4	31333 Round Lake Road	Mt. Dora	32757	0	222	4,923		222
Round Lake Elementary School	5	31333 Round Lake Road	Mt. Dora	32757	98	0	0		
Round Lake Elementary School	6	31333 Round Lake Road	Mt. Dora	32757	0	243	3,732		243
Round Lake Elementary School	99	31333 Round Lake Road	Mt. Dora	32757	31	0	0		

2006 Statewide Emergency Shelter Plan

LAKE									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)*	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Surveyed)*	**Local Planned Usage (reported capacity)**
Seminole Springs Elementary School	1	26200 West Huff Road	Eustis	32726	0	0	1,117		0
Seminole Springs Elementary School	2	26200 West Huff Road	Eustis	32726	122	0	0		
Seminole Springs Elementary School	3	26200 West Huff Road	Eustis	32726	126	0	0		
Seminole Springs Elementary School	4	26200 West Huff Road	Eustis	32726	0	0	2,641		0
Seminole Springs Elementary School	5	26200 West Huff Road	Eustis	32726	140	0	0		
Seminole Springs Elementary School	6	26200 West Huff Road	Eustis	32726	111	0	0		
Seminole Springs Elementary School	99	26200 West Huff Road	Eustis	32726	61	0	0		
South Lake High School	1	15600 Silver Lake Road	Groveland	34736	0	406	8,616		406
South Lake High School	2	15600 Silver Lake Road	Groveland	34736	0	335	6,703		335
South Lake High School	3	15600 Silver Lake Road	Groveland	34736	0	418	7,661		418
South Lake High School	4	15600 Silver Lake Road	Groveland	34736	0	447	11,167		435
South Lake High School	5	15600 Silver Lake Road	Groveland	34736	0	160	2,462		160
South Lake High School	6	15600 Silver Lake Road	Groveland	34736	311	0	0		
South Lake High School	7	15600 Silver Lake Road	Groveland	34736	108	0	0		
South Lake High School	16	15600 Silver Lake Road	Groveland	34736	0	392	8,336		392
Spring Creek Elementary School	1	44440 Spring Creek Road	Paisley	32767	0	0	1,188		0
Spring Creek Elementary School	2	44440 Spring Creek Road	Paisley	32767	0	0	0		
Spring Creek Elementary School	3	44440 Spring Creek Road	Paisley	32767	175	0	0		
Spring Creek Elementary School	4	44440 Spring Creek Road	Paisley	32767	85	0	3,441		0
Tavares Elementary School	?	720 East Clifford Street	Tavares	32778	676	0	0		
Tavares High School	2	603 New Hampshire Avenue	Tavares	32778	1,513	0	0		
Tavares High School	5	603 New Hampshire Avenue	Tavares	32778	57	0	0		
Tavares High School	6	603 New Hampshire Avenue	Tavares	32778	1,524	0	0		
Tavares High School	7	603 New Hampshire Avenue	Tavares	32778	0	656	12,053		656
Tavares High School	8	603 New Hampshire Avenue	Tavares	32778	47	0	0		
Tavares High School	15	603 New Hampshire Avenue	Tavares	32778	31	0	0		
Treadway Elementary School	11	10619 Treadway School Roa	Leesburg	34748	0	243	3,735		243
Treadway Elementary School	12	10619 Treadway School Roa	Leesburg	34748	0	243	4,868		243
Treadway Elementary School	13	10619 Treadway School Roa	Leesburg	34748	0	187	4,530		187
Triangle Elementary School	99	1707 Eudora Road	Mount Dora	32757	206	0	0		
Umatilla Elementary School	1	60 Smith Street	Umatilla	32784	0	66	1,641		61
Umatilla Elementary School	3	60 Smith Street	Umatilla	32784	0	351	5,271		364
Umatilla Elementary School	4	60 Smith Street	Umatilla	32784	0	222	4,923		222
Umatilla Elementary School	6	60 Smith Street	Umatilla	32784	0	243	3,732		243
Umatilla High School	1	320 North Trowell Avenue	Umatilla	32784	20	0	0		
Umatilla High School	23	320 North Trowell Avenue	Umatilla	32784	1,212	0	0		
Umatilla High School	24	320 North Trowell Avenue	Umatilla	32784	914	0	0		
Umatilla High School	25	320 North Trowell Avenue	Umatilla	32784	192	0	0		956
Umatilla High School	28	320 North Trowell Avenue	Umatilla	32784	0	714	10,716		
Villages Elementary School of Lady Lake	1	695 Rolling Acres Road	Lady Lake	32159	0	0	0		79
Villages Elementary School of Lady Lake	2	695 Rolling Acres Road	Lady Lake	32159	0	359	6,173		359
Villages Elementary School of Lady Lake	3	695 Rolling Acres Road	Lady Lake	32159	0	284	6,767		284
Villages Elementary School of Lady Lake	4	695 Rolling Acres Road	Lady Lake	32159	173	0	0		

2006 Statewide Emergency Shelter Plan

LAKE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Villages Elementary School of Lady Lake	5	695 Rolling Acres Road	Lady Lake	32159	196	0	0		
Villages Elementary School of Lady Lake	6	695 Rolling Acres Road	Lady Lake	32159	246	0	0		
Windy Hill Middle School	1	3575 Hancock Road	Clermont	34711	59	0	0		
Windy Hill Middle School	2	3575 Hancock Road	Clermont	34711	18	0	0		
Windy Hill Middle School	3	3575 Hancock Road	Clermont	34711	44	0	0		
Windy Hill Middle School	4	3575 Hancock Road	Clermont	34711	156	0	0		
Windy Hill Middle School	5	3575 Hancock Road	Clermont	34711	282	0	0		
Windy Hill Middle School	6	3575 Hancock Road	Clermont	34711	78	0	0		
Windy Hill Middle School	7	3575 Hancock Road	Clermont	34711	82	0	0		
Windy Hill Middle School	8	3575 Hancock Road	Clermont	34711	190	0	0		
Windy Hill Middle School	99	3575 Hancock Road	Clermont	34711	78	0	0		
						0	0		
				TOTALS FOR LAKE COUNTY	**34,414**	**17,484**	**352,195**	**0**	**18,604**

Year 2006	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	17,484	17,024	460	352,195	340,480	11,715	SURPLUS	

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
Villages ES	2	695 Rolling Acres Road	Lady Lake	32159	**No**	**118**	6173		**118**
Round Lake	6				**No**	**83**	3732		**92**
Leesburg ES	6	2229 South Street	Leesburg	34748	No	83	3732		92
Umatilla ES	6	320 North Trowell Avenue	Umatilla	32784	No	83	3732		92
Pine Ridge ES	6					62	3732		62

Year 2006	SpNs Shelter Capacity In Spaces (meets ARC	SpNs Shelter Demand In Spaces	Surplus/ Deficit In Spaces	SpNs Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result	
Storm Category 4/5	429	360	69	25,740	21,600	4,140	SURPLUS	

2006 Statewide Emergency Shelter Plan

LEE

Name	Bldg. #	Pre-Mitigation ARC 4496 Capacity (persons)	Pre-Mitigation ARC 4496 Capacity (ft^2)	EHPA Capacity Gained (persons)	EHPA Capacity Gained (ft^2)	Retrofitted / Mitigated Capacity Gained (persons)	Retrofitted / Mitigated Capacity Gained (ft^2)	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(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
1st Presbyterian Church, B.S.						50	2,000	50	2,000		50	L	exiting storm shelter
Alico Arena (Florida Gulf Coast Univ/)		1,825	36,500		0			1,825	36,500	1,825	1,825	L	exiting storm shelter
Alva Elementary School	20					283	2,400	283	2,400	0	283	L	per report 5457sf
Bayshore Elementary School								0	0	300			exiting storm shelter
Caloosa Middle								0	0	100		L	exiting storm shelter
Colonial Elementary School	4,6,7,9,12					1,545	30,900	1,545	30,900		1,545	L	exiting storm shelter
Diplomat Elementary School	4,6,7,8,9					1,600	32,000	1,600	32,000		1,600		exiting storm shelter
Diplomat Middle School	1					1,000	20,000	1,000	20,000		1,000		exiting storm shelter
Dunbar High	19,20					800	16,000	800	16,000		800	L	exiting storm shelter
Edison Learning Center								0	0	150		L	exiting storm shelter
English Elementary						0	0	0	0	800		L	exiting storm shelter
Estero High School								0	0	500			exiting storm shelter
Exposition Center								0	0				
Germain Arena	Arena 1	6,500	135,000					6,500	135,000		6,500	L	exiting storm shelter
Harms Marsh ES				1,200	24,000			1,200	24,000		1,200	L	New School
Heights Elementary School								0	0	1,000			exiting storm shelter
Lee County Civic Center								0	0	5,000			exiting storm shelter
Lee Middle School	2,3,6,7,8,9					620	12,400	620	12,400		620	L	exiting storm shelter
Lehigh Acres Middle School	1					710	32,172	710	32,172	0	710	L	exiting storm shelter
Lehigh Senior High School	1,2,4,8,9					380	32,172	380	32,172	0	380	L	exiting storm shelter
Littleton Elementary School	1,4,5,6,8					1,425	28,500	1,425	28,500		1,425	L	exiting storm shelter
Mariner High School								0	0	345			exiting storm shelter
Mariner Middle School				800	16,000			800	16,000		800	new school	
Mirror Lakes Elementary School						1,000	20,000	1,000	20,000	0	1,000		exiting storm shelter
North Ft. Myers Academy of Arts						3,563	50,000	3,563	50,000		2,500	L	exiting storm shelter
Ray V. Portorf ES				1,200	24,000			1,200	24,000		1,200	new school	
Riverdale High School	1					1,150	23,000	1,150	23,000	1,150	1,150		exiting storm shelter
Royal Palm Exceptional Center	1					470	11,964	470	11,964	470		L	exiting storm shelter
shady rest nursing home								0	0	45			
Skyline Elementary School								0	0	1,695			exiting storm shelter
South Ft. Myers HS				3,000	60,000			3,000	60,000			new school	
Sunshine Elementary	1					0	0	0	0		200	L	exiting storm shelter
Tanglewood Elementary School								0	0	800			exiting storm shelter
								0	0	0		L	exiting storm shelter
Three Oaks Elementary School								0	0	1,715			exiting storm shelter
Three Oaks Middle School								0	0	1,440			exiting storm shelter
Tice Elementary School								0	0	100			exiting storm shelter
Veterens Park ES				2,500	50,000			2,500	50,000		2,500	new school	
YCMA										300	300	new bldg	
VA clinic								0	0	40			
Varsity Lakes MS	1	192	3,838					192	3,838		1,000	L	2004 construction
Varsity Lakes MS	2			509	10,172			509	10,172			L	2004 construction
Varsity Lakes MS	3	1,416	28,311					1,416	28,311			L	2004 construction
Varsity Lakes MS	4			450	9,007			450	9,007			L	2004 construction
TOTALS FOR LEE COUNTY		**9,933**	**203,649**	**9,659**	**193,179**	**14,596**	**313,508**	**34,188**	**710,336**	**17,775**	**28,588**		**0**

Year 2006	Shelter Capacity In People							Surplus/ Deficit (ft2)	Result

2006 Statewide Emergency Shelter Plan

LEE												
Storm Category 4/5	34,188							-1,465,044	DEFICIT			
Special Needs Storm Shelters												
Name	**Bldg #**							**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**
Sunshine ES								**0**	0	**133**	**0**	**exiting storm**
Year 2006	**SpNs Shelter Capacity In Spaces (meets ARC 4496)**							**Surplus/ Deficit (ft2)**	**Result**			
Storm Category 4/5	0							-23,280	DEFICIT			

2006 Statewide Emergency Shelter Plan

LEON

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Apalachee Elementary School		650 Trojan Trail	Tallahassee	32311	400	0	0		
Astoria Park Elementary School		2465 Atlas Road	Tallahassee	32303	400	0	0		
Belle Vue Middle School		2214 Belle Vue Way	Tallahassee	32303	300	0	0		
Bethel AME Church		501 West Orange Avenu	Tallahassee	32312	200	0	0		
Bond Elementary School		2204 Saxon Street	Tallahassee	32310	400	0	0		
						0	0		
Bucklake Elementary School	1	1600 Pedrick Road	Tallahassee	32311	350	408	6,123	400	521
Bucklake Elementary School	2	1600 Pedrick Road	Tallahassee	32311		298	4,469		400
Bucklake Elementary School	3 & 4	1600 Pedrick Road	Tallahassee	32311		76	1,145		217
Bucklake Elementary School	5	1600 Pedrick Road	Tallahassee	32311		253	3,795		275
Bucklake Elementary School	6	1600 Pedrick Road	Tallahassee	32311		321	4,772		321
Bucklake Elementary School	7	1600 Pedrick Road	Tallahassee	32311		110	1,651		140
						0	0		
Canopy Oaks Elementary School	1	3250 Point View Drive	Tallahassee	32303	400	203	4,060	400	203
Canopy Oaks Elementary School	2	3250 Point View Drive	Tallahassee	32303		381	5,710		440
Canopy Oaks Elementary School	3	3250 Point View Drive	Tallahassee	32303		427	6,400		544
Canopy Oaks Elementary School	4	3250 Point View Drive	Tallahassee	32303		388	5,827		410
Canopy Oaks Elementary School	5	3250 Point View Drive	Tallahassee	32303		479	7,040		479
Canopy Oaks Elementary School	6	3250 Point View Drive	Tallahassee	32303		221	3,310		281
						0	0		
						0	0		
Carolyn Brevard Elementary Scho	10	2006 Jackson Bluff Roa	Tallahassee	32304	400	57	853		73
Carolyn Brevard Elementary Scho	11	2006 Jackson Bluff Roa	Tallahassee	32304		125	1,872		158
Carolyn Brevard Elementary Scho	12	2006 Jackson Bluff Roa	Tallahassee	32304		113	1,675		113
Carolyn Brevard Elementary Scho	13	2006 Jackson Bluff Roa	Tallahassee	32304		124	1,860		158
Carolyn Brevard Elementary Scho	14	2006 Jackson Bluff Roa	Tallahassee	32304		46	690		58
						0	0		
Chaires Elementary School	1	4774 Chaires Crossroad	Tallahassee	32311	350	228	5,694	400	112
Chaires Elementary School	2	4774 Chaires Crossroad	Tallahassee	32311		253	3,796		323
Chaires Elementary School	5	4774 Chaires Crossroad	Tallahassee	32311		127	1,901		277
Chaires Elementary School	6	4774 Chaires Crossroad	Tallahassee	32311		323	4,935		323
Chaires Elementary School	7	4774 Chaires Crossroad	Tallahassee	32311		174	2,604		221
Chaires Elementary School	3&4	4774 Chaires Crossroad	Tallahassee	32311		128	1,914		166
						0	0		
Cobb Middle School		915 Hillcrest Avenue	Tallahassee	32308	400	0	0	400	
						0	0		
Dearlake Middle School	2	9902 Deerlake Drive We	Tallahassee	32312	400	472	7,343	400	472
Dearlake Middle School	3	9902 Deerlake Drive We	Tallahassee	32312		472	7,449		472
Dearlake Middle School	4	9902 Deerlake Drive We	Tallahassee	32312		479	7,360		472
Dearlake Middle School	5	9902 Deerlake Drive We	Tallahassee	32312		78	1,167		154
Dearlake Middle School	7	9902 Deerlake Drive We	Tallahassee	32312		150	2,906		150
						0	0		
Desoto Trail Ememtary School	1	2930 Velda Dairy Road	Tallahassee	32308	300	408	6,123	300	521

2006 Statewide Emergency Shelter Plan

LEON									
Desoto Trail Ememtary School	2	2930 Velda Dairy Road	Tallahassee	32308		314	4,706		400
Desoto Trail Ememtary School	4	2930 Velda Dairy Road	Tallahassee	32308		106	1,597		179
Desoto Trail Ememtary School	5	2930 Velda Dairy Road	Tallahassee	32308		253	3,795		275
Desoto Trail Ememtary School	6	2930 Velda Dairy Road	Tallahassee	32308		321	4,772		321
Desoto Trail Ememtary School	7	2930 Velda Dairy Road	Tallahassee	32308		110	1,651		140
						0	0		
Everheart School		2750 Mission Road	Tallahassee	32303	100	0	0	100	
Fairview Middle School		3415 Zillah Street	Tallahassee	32311	250	0	0	400	
Faith Presbyterian Church		2200 North Meridian Roa	Tallahassee	32303	120	0	0	120	
First Baptist Church		SR 363	Woodville	32362	70	0	0	100	
First Church of the Nazarene		1983 Mahan Drive	Tallahassee	32308	100	0	0	100	
Florida High		3000 School House Rd	Tallahassee	32304	350	0	0		
Forest Heights Baptist Church		1200 West Tharpe Stree	Tallahassee	32303	125	0	0	125	
FAMU 77 Engineering Bldg	77/ 1st floor					517	10,341		
						0	0		
Fort Braden Elementary School	1	15100 Blountstown Hwy	Tallahassee	32310	250	835	12,523	250	993
Fort Braden Elementary School	2	15100 Blountstown Hwy	Tallahassee	32310		394	6,290		394
Fort Braden Elementary School	3	15100 Blountstown Hwy	Tallahassee	32310		301	4,508		363
Fort Braden Elementary School	4	15100 Blountstown Hwy	Tallahassee	32310		151	2,268		193
						0	0		
FSU School	1	shumard oak blvd	Tallahassee	32311		233	4,660		233
FSU School	3	shumard oak blvd	Tallahassee	32311		743	14,860		743
FSU School	4	shumard oak blvd	Tallahassee	32311		0	0		733
FSU School	5	shumard oak blvd	Tallahassee	32311		367	7,340		367
FSU School	6	shumard oak blvd	Tallahassee	32311		411	8,220		411
FSU School	8	shumard oak blvd	Tallahassee	32311		0	0		643
FSU School	9	shumard oak blvd	Tallahassee	32311		452	9,040		452
						0	0		
Gilchrist Elementary School		695 Timberlane Road	Tallahassee	32312	225	0	0		
Godby High School		1717 West tharpe Street	Tallahassee	32303	400	0	0		
Griffin Middle School		800 Alabama Street	Tallahassee	32304	400	0	0		
						0	0		
Hartsfield Elementary School	9	1414 Chowkeebin Nene	Tallahassee	32301	400	78	1,176	400	100
Hartsfield Elementary School	10	1414 Chowkeebin Nene	Tallahassee	32301		69	1,036		88
Hartsfield Elementary School	11	1414 Chowkeebin Nene	Tallahassee	32301		47	706		136
Hartsfield Elementary School	12	1414 Chowkeebin Nene	Tallahassee	32301		141	2,108		179
Hartsfield Elementary School	16	1414 Chowkeebin Nene	Tallahassee	32301		93	1,395		112
						0	0		
Hawks Rise ES	1	205 Meadow Ridge Dr	Tallahassee	32301		131	2,640		131
Hawks Rise ES	2	205 Meadow Ridge Dr	Tallahassee	32301		384	5,755		404
Hawks Rise ES	3	205 Meadow Ridge Dr	Tallahassee	32301		238	3,564		303
Hawks Rise ES	4	205 Meadow Ridge Dr	Tallahassee	32301		182	2,727		249
Hawks Rise ES	5	205 Meadow Ridge Dr	Tallahassee	32301		453	6,802		553
Hawks Rise ES	6	205 Meadow Ridge Dr	Tallahassee	32301		348	5,224		444
						0	0		
						0	0		
Lawton Chiles High School	1	7200 Thomasville Road	Tallahassee	32312		295	5,900		295
Lawton Chiles High School	2	7200 Thomasville Road	Tallahassee	32312		789	12,591		792
Lawton Chiles High School	7	7200 Thomasville Road	Tallahassee	32312		1,775	28,379		1,478

2006 Statewide Emergency Shelter Plan

LEON

Lawton Chiles High School	8	7200 Thomasville Road	Tallahassee	32312		1,061	17,508		958
						0	0		
						0	0		
Oak Ridge Elem	2	4350 Shelfer Road	Tallahassee	32310	300	259	3,889	300	338
Oak Ridge Elem	6	4350 Shelfer Road	Tallahassee	32310		254	3,815		292
						0	0		
Pineview Elementary School		2230 Lake Bradford Roa	Tallahassee	32310	400	0	0		
Raa Middle School		410 West Tharpe Street	Tallahassee	32303	400	0	0		
Rickards High School		3013 Jim Lee Road	Tallahassee	32301	400	0	0		
Riley Elementary School		1400 Indiana Street	Tallahassee	32304	350	0	0		
						0	0		
Roberts ES	1	5777 Centerville Rd	Tallahassee	32309		521	9,189		521
Roberts ES	2	5777 Centerville Rd	Tallahassee	32309		608	9,124		674
Roberts ES	3	5777 Centerville Rd	Tallahassee	32309		291	4,376		291
Roberts ES	4	5777 Centerville Rd	Tallahassee	32309		295	4,428		553
						0	0		
						0	0		
Springwood Elementary School	1	3801 Fred George Road	Tallahassee	32303	400	380	5,694	400	484
Springwood Elementary School	2	3801 Fred George Road	Tallahassee	32303		265	3,976		322
Springwood Elementary School	5	3801 Fred George Road	Tallahassee	32303		134	2,016		277
Springwood Elementary School	6	3801 Fred George Road	Tallahassee	32303		322	4,792		322
Springwood Elementary School	7	3801 Fred George Road	Tallahassee	32303		170	2,554		221
						0	0		
						0	0		
				TOTALS FOR LEON COUNTY	**16,045**	**22,413**	**362,379**	**4,595**	**25,811**

Year 2006	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	9227	13,186	362,379	184,540	177,839	Surplus	

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
FSU School	4	Shumard OakBlvd	Tallahassee	32311	**No**	**244**	14,660		**244**
FSU School	8	Shumard OakBlvd	Tallahassee	32311	**No**	**214**	12,860		**214**
Kate Sullivan ES					No		0	116	

Year 2006	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	458	85	373	27,480	5,100	22,380	Surplus	

2006 Statewide Emergency Shelter Plan

LEVY

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bronson ES		State Road 24	Bronson	32621	260	0	0	2,720	
Bronson ES	6	State Road 24	Bronson	32621	622	0	0	1,623	622
Bronson ES	7	State Road 24	Bronson	32621	580	0	0		580
Bullock ES	5	130 Southwest 3rd. Strre	Williston	32696	525	525	4,897		525
Cedar Key School		951 Whiddon Avenue	Cedar Key	32625	38	0	0	0	
Chiefland Elementary School	100	1205 NW 4th Avenue	Chiefland	32626	226	60	1,057	1,687	60
Chiefland Elementary School	200	1205 NW 4th Avenue	Chiefland	32626		478	7,186		666
Chiefland Elementary School	300	1205 NW 4th Avenue	Chiefland	32626		68	1,095		68
Chiefland Elementary School	400	1205 NW 4th Avenue	Chiefland	32626		43	711		43
Chiefland Middle School		118 NW 4th Drive	Chiefland	32626	276	0	0	944	
Chiefland High School		808 N. Main Street	Chiefland	32626	411	0	0	2,201	
Joyce Bullock Elementary School		130 Southwest 3rd. Strre	Williston	32696	177	0	0	1,853	
Williston Elementary School		801 South Main Street	Williston	32696	307	0	0	2,271	
Williston High School	6	427 West Noble Avenue	Williston	32696	488	292	4,374	3,738	488
Williston Middle School	10-health	20550 NE 3rd Avenue	Williston	32696	122	62	926	1,965	130
Williston Middle School	12					400	5,996		495
Yankeetown School		4500 Highway 40 West	Yankeetown	34498	229	0	0	0	
						0	0		
				TOTALS FOR LEVY COUNTY	**4,261**	**1,928**	**26,242**	**19,002**	**3,677**

Year 2006	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	1,928	2,782	-854	26,242	55,640	-29,398	DEFICIT	

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
Bronson ES	6	State Road 24	Bronson	32621	**No**	**35**	2125		**35**
Bronson ES	7	State Road 24	Bronson	32621	**No**	**101**	6084		**101**

Year 2006	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	136	50	86	8,160	3,000	5,160	SURPLUS	

2006 Statewide Emergency Shelter Plan

LIBERTY

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
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		352	7,044		352
W R Toler Elementary School	2	SR 12	Bristol	32321	350	548	8,011	400	548
W R Toler Elementary School	1	SR 12	Bristol	32321		185	4,441		185
W R Toler Elementary School	3	SR 12	Bristol	32321		65	1,625		63
TOTALS FOR LIBERTY COUNTY					**1,060**	**1,150**	**21,121**	**920**	**1,148**

Year 2006	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	1,150	895	255	21,121	17,900	3,221	SURPLUS	

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**
							0		**0**

Year 2006	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	DEFICIT	

2006 Statewide Emergency Shelter Plan

MADISON

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (report capacity)
Greenville Elementary School		SR 150 S	Greenville	32331	175	0	0		
Lee Elementary School		731 US Hwy 90 E	Lee	32059	225	0	0		
						0	0		
Madison County High School		US Highway 90 East	Madison	32340	350	0	0	350	
Madison Central School		2093 US Hwy 90 W	Madison	32340	275	0	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	
New Testament Christian Center		us Highway 90 East	Madison	32340	100	0	0	100	
Pinetta Jr. High School		135 NE Empress Tree D	Pinetta	32350	190	0	0	190	
Madison Central School	1	Hwy 90	Madison	32340		110	1,652		518
Madison Central School	2	Hwy 90	Madison	32340		169	2,541		721
Madison Central School	3	Hwy 90	Madison	32340		255	3,824		490
Madison Central School	4	Hwy 90	Madison	32340		134	2,014		265
Madison Central School	5	Hwy 90	Madison	32340		511	7,661		833
Madison Central School	6	Hwy 90	Madison	32340		516	7,740		768
Madison Central School	7	Hwy 90	Madison	32340		429	6,435		728
Madison Central School	8	Hwy 90	Madison	32340		546	8,196		796
Madison Central School	9	Hwy 90	Madison	32340		483	7,238		659
Madison Central School	10	Hwy 90	Madison	32340		611	9,162		802
Madison Central School	11	Hwy 90	Madison	32340		247	3,711		518
Town of Lee-Publ. Saf/Emerg Sh	Fire		Lee	32059		300	4,632		300
TOTALS FOR MADISON COUNTY					**1,415**	**4,311**	**64,806**	**710**	**7,398**

Year 2006	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	4,311	1637	2,674	64,806	32,740	32,066	SURPLUS

Special Needs Storm Shelters

2006 Statewide Emergency Shelter Plan

MADISON

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)
Madison Central		Hwy 90	Madison	32340	**No**	**28**	1,680		**28**
							0		
							0		
							0		
							0		
							0		

Year 2006	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	28	61	-33	1,680	3,660	-1,980	DEFICIT	

2006 Statewide Emergency Shelter Plan

MANATEE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Ana Maria Elementary	1	4700 Gulf Drive North	Holmes Beach	34217	TBD	0	0		
Bashaw Elementary School	2	3515 Morgan Johnson Rd	Bradenton	34208	250	432	6,487		500
Bashaw Elementary School	3	3515 Morgan Johnson Rd	Bradenton	34208	250	434	6,514		500
Bashaw Elementary School	4	3515 Morgan Johnson Rd	Bradenton	34208	230	340	5,099		460
Bashaw Elementary School	5	3515 Morgan Johnson Rd	Bradenton	34208	232	460	7,498		460
Bayshore Elementary School	1	6120 26th Street West	Bradenton	34207	882	1,764	37,767		1,764
Braden River Elementary School	1	6215 River Club Boulevard	Bradenton	34208		231	7,237		420
Braden River Elementary School	2	6215 River Club Boulevard	Bradenton	34208	253	436	6,539		507
Braden River Elementary School	3	6215 River Club Boulevard	Bradenton	34208	250	436	6,534		501
Braden River Elementary School	4	6215 River Club Boulevard	Bradenton	34208	230	361	5,419		460
Braden River Elementary School	5	6215 River Club Boulevard	Bradenton	34208	232	465	7,573		465
Braden River High School	6	6545 SR 70 East	Bradenton	34202	359	718	12,959		718
Braden River High School	7	6545 SR 70 East	Bradenton	34202	857	1,714	28,739		1,714
Braden River High School	8	6545 SR 70 East	Bradenton	34202	469	839	12,580		937
Braden River Middle School	2	6215 River Club Boulevard	Bradenton	34202	223	447	9,262		447
Braden River Middle School	5	6215 River Club Boulevard	Bradenton	34202	91	183	2,714	211	183
Braden River Middle School	6	6215 River Club Boulevard	Bradenton	34202	277	354	6,390		354
Carlos Haile Middle School	5	9501 State Road 64th East	Bradenton	34202	294	588	11,304		588
Carlos Haile Middle School	3A	9501 State Road 64th East	Bradenton	34202	143	297	16,354		297
Carlos Haile Middle School	4A	9501 State Road 64th East	Bradenton	34202	373	747	11,971		747
Freedom Elementary	1	9515 State Road 64th East	Bradenton	34202	1246	1,764	38,175		1,764
King Middle School	1	700 75th Street NW	Bradenton	34209	TBD			0	
Kinnan Elementary School	3	3415 Tallevast Road	Sarasota	34243	265	635	15,881		530
Kinnan Elementary School	4	3415 Tallevast Road	Sarasota	34243	253	436	10,907		145
Lee Middle School	A	4000 53rd Avenue West	Bradenton	34210	163	326	7,849		326
Lee Middle School	B	4000 53rd Avenue West	Bradenton	34210	163	326	7,132		326
Lee Middle School	C	4000 53rd Avenue West	Bradenton	34210	163	326	7,790		326
Lincoln Middle School	A	305 17th Street East	Palmetto	34221	163	326	6,787		326
Lincoln Middle School	B	305 17th Street East	Palmetto	34221	163	326	7,170		326
Lincoln Middle School	C	305 17th Street East	Palmetto	34221	163	326	7,772		326
Louise Johnson Middle School	3	2121 26th Avenue East	Bradenton	34208	99	431	10,781		198
Louise Johnson Middle School	5	2121 26th Avenue East	Bradenton	34208	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	646	1,293	23,284		1,293
Manatee High School	3	1000 32nd Street West	Bradenton	34205	280	528	7,922		560
Manatee Technical Institute Medical Complex	1	5520 Lakewood Ranch	Bradenton	34202		0	0		
McNeil Elementary	1	6325 Lorraine Road	Bradenton	34202	883	1,766	38,475		1,766
Middle School "H"	TBD	TBD	TBD	TBD	TBD	TBD	TBD		
Mills Elementary School	1	7200 69th Street East	Palmetto	34221	742	1,645	41,128		1,484
Myakka Elementary School	3	37205 Manatee Avenue	Myakka City	34251	145	225	3,368		290
Myakka Elementary School	4	37205 Manatee Avenue	Myakka City	34251	77	134	2,014		155
Myakka Elementary School	6	37205 Manatee Avenue	Myakka City	34251	146	268	4,021		293
Myakka Elementary School	7	37205 Manatee Avenue	Myakka City	34251	63	98	1,463		127
Nolan Middle School	1	6615 Greenbrook Boulevar	Bradenton	34202	856	3,377	67,545		3,377
Oneco Elementary School	1	2000 53rd Avenue East	Bradenton	34203		0	0		
Oneco Elementary School	4	2000 53rd Avenue East	Bradenton	34203	151	564	14,102		303
Oneco Elementary School	6	2000 53rd Avenue East	Bradenton	34203	148	484	12,088		297

2006 Statewide Emergency Shelter Plan

MANATEE

Palmetto Elementary School	4	634 7th Street West	Palmetto	34221		0	0		
Palmetto Elementary School	5	634 7th Street West	Palmetto	34221		0	0		
Palmetto Elementary School	6	634 7th Street West	Palmetto	34221		0	0		
Prine Elementary School	1	3801 Southern Paerkway	Bradenton	34205	882	2,054	41,088		2054
Rowiett Elementary School	1	3500 9th Street East	Bradenton	34208	148	0	0		
Rowiett Elementary School	3	3500 9th Street East	Bradenton	34208	265	620	15,505		530
Rowlett Elementary School	4	3500 9th Street East	Bradenton	34208	72	0	0		0
Seabreeze Elementary School	1	3601 71st Street West	Bradenton	34209		0	7,091		0
Seabreeze Elementary School	2	3601 71st Street West	Bradenton	34209	260	445	6,674		520
Seabreeze Elementary School	3	3601 71st Street West	Bradenton	34209	261	433	6,497		521
Seabreeze Elementary School	4	3601 71st Street West	Bradenton	34209	230	335	5,021		460
Seabreeze Elementary School	5	3601 71st Street West	Bradenton	34209	232	465	7,566		465
Tillman Elementary School	3	1415 29th Street East	Palmetto	34221	72	530	12,167		530
Tillman Elementary School	4	1415 29th Street East	Palmetto	34221	72	415	10,368		145
Willis Elementary School	1	Lorraine Road	Bradenton	34202	882	1,764	44,050	0	1,764
Witt Elementary School	3	200 Rye Road	Bradenton	34202	260	441	6,618		520
Witt Elementary School	4	200 Rye Road	Bradenton	34202	209	418	7,771		418
Witt Elementary School	5	200 Rye Road	Bradenton	34202	197	303	4,545		394
						0	0		
				TOTALS FOR MANATEE COUNTY	**17,187**	**35,271**	**722,502**	**384**	**35,079**

Year 2006	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	35,271	32988	2,283	722,502	659,760	62,742	SURPLUS

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
Manatee Tech Inst	1	5520 Lakewood Ranch	Bradenton	34202	**No**	**194**	11,620		**194**
Braden River High School	6	6545 SR 70 East	Bradenton	34202	**No**	216	12959		216
Braden River High School	7	6545 SR 70 East	Bradenton	34202	**no**	479	28739		479
Braden River High School	8	6545 SR 70 East	Bradenton	34202	**No**	210	12580		210
							0		
							0		

Year 2006	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	1,099	430	669	65,940	25,800	40,140	SURPLUS

2006 Statewide Emergency Shelter Plan

MARION

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Anthony Elementary School		9501 NE Jacksonville Roa	Anthony	N/A	333	0	0		
Belleview Elementary School		5556 SE Agnew Road	Belleview	34420	166	0	0		
Belleview High School, Bldg 10	10	10400 SE 36th Avenue	Belleview	34420		0	0		
Belleview High School, Bldg 3	3	10400 SE 36th Avenue	Belleview	34420	100	0	14,884	0	
Belleview High School, Bldg 4	4	10400 SE 36th Avenue	Belleview	34420	100	0	14,213	0	
Belleview High School, Bldg 5	5	10400 SE 36th Avenue	Belleview	34420	100	0	0		
Belleview Middle School	2	10500 SE 36th Avenue	Belleview	34420	1,150	473	11,369		473
Belleview Middle School	3	10500 SE 36th Avenue	Belleview	34420		430	11,206		430
Belleview Middle School	4	10500 SE 36th Avenue	Belleview	34420		534	11,899		534
Belleview-Santos Elementary School		9600 South US Hwy 441	Belleview	33420	810	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	560	0	0		
Community Education Center		1014 SW 7th Road	Ocala	N/A	300	0	0		
Dr. N.H. Jones Elementary School		1900 SW 5th Street	Ocala	N/A	245	0	0		
Dunnellon High School	23	10055 SW 180th Ave Rd	Dunnellon	34432	0	251	6,125		251
Dunnellon High School	24	10055 SW 180th Ave Rd	Dunnellon	34432	775	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	200	0	0		
Eighth Street Elementary School		513 SE 8th STreet	Ocala	34470	536	0	0		
Emerald Shores Elementary School		404 Emerald Road	Ocala	34472	945	0	0		
Evergreen Elementary School		4000 NE W Anthony Roac	Ocala	34471	640	0	0		
Fessenden Elementary School		4200 NW 90th Street	Ocala	34470	836	0	0		
First Baptist Church of Belleview		6107 SE Agnew Road	Belleview	N/A	200	0	0		
Forest High School --Gym	4	5000 SE Maricamp	Ocala	34480		638	20,949		638
Forest High School -- Music & Band Rc	3	5000 SE Maricamp	Ocala	34480		87	11,079		87
Forest High School --Band Room	3	5000 SE Maricamp	Ocala	34480		0	0		38
Forest High School --Cafeteria	2	5000 SE Maricamp	Ocala	34480		328	8,972		328
Forest High School- Classrooms	11								
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	964	0	0	964	
Fort McCoy School	4					214	4,592		214
Fort McCoy School	5					155	3,873		123
Fort McCoy School	6					214	4,592		214
Fot McCoy School	8					214	4,592		214
Greenway Elementary School		207 Midway Road	Ocala	34472	150	0	0		
Harbour View Elementary School		8445 SE 147th Street	Summerfield	34491	685	0	0		
Hillcrest School		3143 SE 17th Street	Ocala	34470	50	0	0		
Howard Middle School		1108 NW Martin Luther Ki	Ocala	34470	850	0	0		

2006 Statewide Emergency Shelter Plan

MARION

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Lake Weir High School	12	10351 SE Maricamp Roac	Ocala	34472	1,000	1,102	27,844		1,102
Lake Weir Middle School		10220 SE Sunset Harbor	Summerfield	34491	812	0	0		
Madison Street Elementary School	1	1239 NW 4th Street	Ocala	34470	720	0	0		
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 (0ld Forest HS)		1614 SE Fort King Street	Ocala	34470	1,000	0	0		
North Marion High School		151 W Highway 329	Citra	32113	500	0	0		
North Marion Middle School		2085 NW 28th Street	Ocala	32113	500	0	0		
Oakcrest Baptist Church		1109 NE 28th Street	Ocala	34470	0	0	0		
Oakcrest Elementary School		1112 NE 28th Street	Ocala	34470	350	0	0		
Ocala City Auditorium		836 NE Sanchez Avenue	Ocala	N/A	200	0	0		
Ocala Springs Elementary School		5757 NE 40th Ave Rd	Ocala	34470	200	0	0		
Osceola Middle School		526 SE Tuscawilla Avenu	Ocala	N/A	500	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	350	0	0		
Romeo Elementary School		19550 SW 36th Street	Dunnellon	34432	500	0	0		
Saddlewood Elementary School, Bldg 1	1	3700 SW 43rd Court	Ocala	34473	0	50	2,028		50
Saddlewood Elementary School, Bldg 4	4	3700 SW 43rd Court	Ocala	34473	0	219	4,592		219
Saddlewood Elementary School, Bldg 6	6	3700 SW 43rd Court	Ocala	34473	0	0	3,760		
Shady Hill Elementary School		5959 S Magnolia Avenue	Ocala	34470	609	0	0		
South Ocala Elementary School		2831 SE Lake Weir Avenu	Ocala	34470	512	0	0		
Sparr Elementary School		2525 E Highway 329	Ocala	32192	100	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	689	0	0		
Sunrise Elementary School		375 Marion Oaks Course	Ocala	34473	200	0	0		
Vanguard High School						0	0		
Vanguard High School	4	7 NW 28th Street	Ocala	34470	1,000	1,044	20,880		1,044
Ward-Highlands Elementary School		537 SE 36th Street	Ocala	N/A	200	0	0		
Westport High School	6 or 1					563	11,261		563
Westport Middle School	9 or 1	3733 SW 80th Avenue	Ocala	34482		0	0		122
Wyomina Park Elementary School		511 NE 12th Avenue	Ocala	34470	200	0	0		
				TOTALS FOR MARION COUNTY	**23,690**	**6,850**	**205,073**	**1,723**	**6,978**

Year 2006	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result

2006 Statewide Emergency Shelter Plan

MARION

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Storm Category 4/5	6,850	13,741	-6,891	205,073	274,820	-69,747	DEFICIT		

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
Madison Street ES	1	1239 NW 4th Street	Ocala	34470	**No**	**126**	7,560		**126**
Westport MS (Gym)	1	3733 SW 80th Avenue	Ocala	34482	**Yes**	122	7,320		122
Bellview HS	5	10400 SE 36th Avenue	Belleview	34420	**Yes**	163	9,750		163
Bellview HS	10	10400 SE 36th Avenue	Belleview	34420	**Yes**	243	14,603		243
Bellview HS	4								

Year 2006	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	654	500	154	39,240	30,000	9,240	SURPLUS

2006 Statewide Emergency Shelter Plan

MARTIN

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bessey Creek Elementary School		2201 SW Matheson Ave	Palm City	34990	1,000	850	17,000		850
Challenger School	2	5200 SE Willoughby Blvd	Stuart	34987		0	0		
Challenger School	4	5200 SE Willoughby Blvd	Stuart	34987		0	0		
Challenger School	5	5200 SE Willoughby Blvd	Stuart	34987		0	0		
Challenger School	6	5200 SE Willoughby Blvd	Stuart	34987		0	0		
Challenger School	7	5200 SE Willoughby Blvd	Stuart	34987		0	0		
Crystal Lake Elementary School		2095 SW 96th Street	Stuart	34997	1,000	849	16,980		849
Felix Williams School		401 NW Baker Street	Stuart	34994	1,000	0	0		
Hidden Oaks Middle School		2801 SW Martin Highway	Palm City	34990	1,100	663	13,261	825	663
Indiantown Middle School	2	16303 SW Farm Road	Indiantown	34956	1,500	538	8,583		538
JD Parker ES	entrie	1050 East 10th St	Stuart	34996	700	1,940	48,510		1,300
Jensen Beach Elementary School		2525 NE Savanna Road	Jensen Beach	34857	1,500	1,450	29,000		1,450
Jensen Beach HS	4	2875 Goldenrod Rd	Jensen Beach	34957	3000	1,988	62,054		1,988
Jensen Beach HS	3&5	2875 Goldenrod Rd	Jensen Beach	34957	2,000	1,562	34,573		1,562
Morgade Library..	Comm. Rm	5851 SE Comm. Dr	Stuart	34997		115	2,300		115
Palm City Elementary School		1951 SW 34th Street	Palm City	34990	825	0	0		
Pinewood Elementary School		5200 SE Willoughby Blvd	Stuart	34997	1,000	0	0		
Pt. Salerno ES	all	4890 SE Jack Ave	Stuart	34997	700	1,833	45,833		1,300
Seawind Elementary School		3700 SE Seabranch Blvd	Stuart	33455	1,000	875	15,998		875
South Fork		10205 SW Pratt & Whitne	Stuart	34997	1,200	0	0		
Warfield Elementary School	21	15261 SW 50th Street	Indiantown	34956	1000	860	10,682		860
						0	0		
				TOTALS FOR MARTIN COUNTY	**18,525**	**13,523**	**304,774**	**825**	**12,350**

Year 2006	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	13,523	8,439	5,084	304,774	168,780	135,994	SURPLUS

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
Challenger School	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**
Pinewood ES	2	5200 SE Willoughby Blvd	Stuart	34997	**No**	**63**	3,799		**63**

2006 Statewide Emergency Shelter Plan

MARTIN									
Pinewood ES	3	5200 SE Willoughby Blvd	Stuart	34997	**No**	**64**	3,865		**64**
Pinewood ES	4	5200 SE Willoughby Blvd	Stuart	34997	**No**	**114**	6,830		**114**
Pinewood ES	7	5200 SE Willoughby Blvd	Stuart	34997	**No**	**83**	4,950		**83**
Pinewood ES	8	5200 SE Willoughby Blvd	Stuart	34997	**No**	**41**	2,463		**41**
Pinewood ES	9	5200 SE Willoughby Blvd	Stuart	34997	No	**80**	4,783		**80**

Year 2006	**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	626	240	386	37,560	14,400	23,160	SURPLUS

2006 Statewide Emergency Shelter Plan

MIAMI-DADE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
American Senior High	1	12850 NW 67th Avenue	Miami	33015	1,279	2,558	51,160		2,558
Arvida Middle		10900 SW 127th Avenue	Miami	33186	207	700	14,000		700
Ashe, Bowman Elementary School		6601 SW 152nd Avenue	Miami	33193	174	1,386	27,720		1,386
Bent Tree Elementary School		4861 SW 140th Avenue	Miami	33175	394	474	9,480		474
Brentwood Elementary School	4	3131 NW 191st Street	Miami	33056	432	865	17,300		865
Bright, James Elementary School		2530 W 10th Avenue	Hialeah	33010	192	1,208	24,160		1,208
Calusa Elementary		9580 W Calusa Club Drive	Miami	33186	247	900	18,000		900
Chiles, Lawton Middle School	2	8190 NW 197 Street	Miami	33015		1,886	37,719		1,436
Chiles, Lawton Middle School	3	8190 NW 197 Street	Miami	33015		746	14,919		746
Chiles, Lawton Middle School	4	8190 NW 197 Street	Miami	33015		368	7,355		368
Citrus Grove Middle School	1	21153 NW 3rd Street	Miami	33125	2,241	1,700	34,000		1,700
Darlo, Reuben Middle		350 NW 97th Avenue	Miami	33172	250	0	0		0
Doral Middle School		5005 NW 112 Avenue	Miami	33178		1,360	27,200		1,360
Douglas, Marjorie Elementary School		11901 SW 2nd Street	Miami	33184	270	1,569	31,380		1,569
Drew, Charles Middle School		1801 NW 60th Street	Miami	33142	270	1,050	21,000		1,050
Dunbar Elementary School		505 NW 20th Street	Miami	33127	350	786	15,720		786
Fascell, Dante Elementary School		15625 SW 80th Street	Miami	33193	700	931	18,620		931
Ferguson, John Senior High		15900 SW 56 Street	Miami	33185	500	1,231	24,620		1,231
Finlay, Carlos Elementary		851 SW 117 Avenue	Miami	33174	250	1,407	28,140		1,407
Florida Int University (Univ Park Campus)	Dorms	11200 SW 8th Street	Miami	33165	700	0	0		0
Goleman High School	8&9	14100 NW 89th Avenue	Miami	33016	5,273	1,248	24,960		1,248
Goleman Senior High	1 & 4	14100 NW 89th Avenue	Miami	33016	5,273	800	16,000		800
Goleman Senior High	12	14100 NW 89th Avenue	Miami	33016	5,273				
Greynolds Park Primary Learning Center		1575 NE 177 Street	N Miami Beach	33162	262	517	10,340		517
Hall, Joe Elementary School		1901 SW 134th Avenue	Miami	33175	321	914	18,280		914
Hammocks Middle School		9889 Hammocks Blvd	Miami	33196	818	1,467	29,340		1,467
Hartner Elementary School		401 NW 29th Street	Miami	33127	445	1,306	26,120		1,306
Hialeah Senior		251 East 49 Street	Hialeah	33013	500	1,352	27,040		1,352
Hialeah-Miami Lakes High School		7977 W 12th Avenue	Hialeah	33014	1,050	1,264	25,280		1,264
Highland Oaks Middle School		2375 NE 203rd Street	N Miami Beach	33180	250	0	0		0
Hoover, Oliver Elementray		9050 Hammocks Blvd	Miami	33196	394	1,273	25,460		1,273
Krop, Michael Senior High School		1410 NE County Line Roa	N Miami Beach	33179	750	3,383	67,660		3,383
Lake Stevens Elementary School		5101 NW 183rd Avenue	Miami	33055	588	1,018	20,360		1,018
Lorah Park Elementary School		5160 NW 31st Avenue	Miami	33142	420	840	16,800		840
Marti, jose Middle		5701 W 24th Avenue	Hialeah	33016	250	500	10,000		500
McMillan Middle School		13100 SW 59th Street	Miami	33183	250	0	0		0
Miami Carol City High School	1	3422 NW 187th Street	Miami	33056	900	500	10,000		500
Miami Coral Park High School	1	8865 SW 16th Street	Miami	33165	1,014	1,125	22,500		1,125
Miami -Dade Homeless Assistance center						1,000	20,000		1,000
Miami Edison High School		6161 NW 5th Court	Miami	33127	250	0	0		0

2006 Statewide Emergency Shelter Plan

MIAMI-DADE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Miami Killian High School		10655 SW 97th Avenue	Miami	33176	210	420	8,400		420
Miami Northwestern High School	1	7007 NW 13th Avenue	Miami	33150	2,000	2,420	48,400		2,420
Miami Palmetto Senior High		7460 SW 118th Street	Miami	33156	275	2,313	46,260		2,313
Miami Shores Elementary School		10351 NE 5th Avenue	Miami	33138	82	287	5,740		287
Miami Southridge Senior High	1	19355 SW 114th Street	Miami	33157	850	1,082	21,640		1,082
Miami Springs High	1	751 Dove Avenue	Miami Springs	33166	1,150	3,000	60,000		3,000
Miami Sunset High	1 & 4	13125 SW 72nd Street	Miami	33183	1,637	2,440	46,000		2,440
Morgan, Robert Educational Center		18180 SW 122 Avenue	Miami	33177		1,000	20,000		1,000
North Miami Beach High School		1247 NE 167th Street	N Miami Beach	33162	1,115	3,152	63,040		3,152
North Miami High School		800 NE 137th Street	N Miami Beach	33161	553	2,313	46,260		2,313
North Miami Middle School	1	13105 NE 7th Avenue	N Miami Beach	33161	761	450	9,000		450
Norwood Elementary School		19810 NW 14th Court	Miami	33169	317	1,027	20,540		1,027
Olinda Elementary School		5536 NW 21st Avenue	Miami	33142	750	1,701	34,020		1,701
Orchard Villa Elementary School		5720 NW 13th Avenue	Miami	33142	650	1,179	23,580		1,179
Owens, Ruth Kruse		11001 SW 76th Street	Miami	33173	230	741	14,820		741
Palm Lakes Elementary School		7450 W 16th Avenue	Hialeah	33014	338	649	12,980		649
Palm Springs North Elementary School		17615 NW 82nd Avenue	Hialeah	33015	540	1,029	20,580		1,029
Pepper, Claude Elementary School		14550 SW 96th Street	Miami	33186	332	1,258	25,160		1,258
Pharr, Kelsey Elementary School		2000 NW 46th Street	Miami	33142	327	511	10,220		511
Porter, Gilbert Elementary School		15851 SW 112th Street	Miami	33196	380	1,769	35,380		1,769
Reagan, Ronald Senior High		8600 NW 107th Avenue	Doral	33178	500	0	0		0
Royal Green Elementary School		13047 SW 47th Street	Miami	33175	406	563	11,260		563
Shenandoah Elementary School		1023 SW 21st Avenue	Miami	33135	250	500	10,000		500
Sheppard, Ben Elementary School		5700 W 24th Avenue	Hialeah	33016	355	1,420	28,400		1,420
South Maimi Senior	1					0	0		0
South Miami High School	1	6856 SW 53rd Street	Miami	33155	1,250	3,224	64,480		3,224
Southwood Middle School	1	16301 SW 80th Avenue	Miami	33157	955	1,500	30,000		1,500
Stirrup Elementary School		330 NW 97th Avenue	Miami	33172	323	775	15,500		775
Sunshine Pavilion @ Tamiami Park		10901 SW 24th Street	Miami	33165	1,225	2,450	49,000		2,450
Thomas, W. R. Middle School		13001 SW 26th Street	Miami	33175	610	2,050	41,000		2,050
Van Blanton Elementary School	1	10327 NW 11th Avenue	Miami	n/a	575	1,150	23,000		1,150
Varela, Felix Senior High		15255 SW 96th Street	Miami	33197		2,913	58,260		2,913
Village Green Elementary School		12265 SW 34th Street	Miami	33175	198	565	11,300		565
Washington, Booker T. Senior High		1200 NW 6th Avenue	Miami	33136		1,028	20,560		1,028
				TOTALS FOR MIAMI-DADE COUNTY	**51,881**	**86,511**	**1,727,413**	**0**	**86,061**

Year 2006	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	86,511	58,129	28,382	1,727,413	1,162,580	564,833	SURPLUS

2006 Statewide Emergency Shelter Plan

MIAMI-DADE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)

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
Miami Edison HS		6161 NW 5th Court	Miami	33127	**No**	**333**	19,980		**333**
Rubin Dario MS		350 NW 97th Avenue	Miami	33172	**No**	**333**	19,980		
H.D. McMillian MS		13100 SW 59th Street	Miami	33183	**No**	**333**	19,980		**333**
Highland Oaks MS		2375 NE 203rd Street	N Miami Beach	33180	**No**	**333**	19,980		**333**
Morgan, Robert Educational Center		18180 SW 122 Avenue	Miami	33177	No		0		333
							0		

Year 2006	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	1,332	500	832	79,920	30,000	49,920	SURPLUS

2006 Statewide Emergency Shelter Plan

MONROE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Florida Intl' Univ (Univ Park Campus)		11200 SW 8th Street	Miami	33165	700	0	0	0	
Sugarloaf	16	RT 2 CRANE RD	Sugarloaf key	33042		0	0	0	
Switlike ES	10	3400 overseas Hwy	Marathon	33050		0	0	0	
Harvey Government Center	HGC	1200 Truman Avenue	Key West	33040	22	0	0	34	
Key West HS	Café	2100 Flager Ave	Key West	33040	300	0	0	300	
Horace O/Bryant School	16	105 Leon Street	Key West	33040	451	0	0	451	
Sugarloaf MS	café	255 Crane Rd	Sugarloaf key	33042	300	0	0	399	
Stanley Switlik ES	Café	3400 overseas Hwy	Marathon	33050	86	0	0	86	
Coral Shores HS	Café	89901 Old Hyw	Islamorada	33070	201	0	0	201	
Key Largeo ES	6	Rte1, box 195	key largo	33070	78	0	0	78	
St. Justin's Catholic Church	Parish Hall	105500 Overseas Hwy	Key largo			0	0		
				TOTALS FOR MONROE COUNTY	**2,138**	**0**	**0**	**1,549**	**0**

Year 2006	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	17,102	-17,102	0	342,040	-342,040	DEFICIT

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)
FIU		11200 SW 8th Street	Miami	33165	**No**	**233**	13,980		**233**
							0		
							0		
							0		
							0		
							0		

Year 2006	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	233	500	-267	13,980	30,000	-16,020	DEFICIT

2006 Statewide Emergency Shelter Plan

NASSAU

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)* [1]	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capcity)
Bryceville Elementary School	6	1 Church Avenue	Bryceville	N/A	68	0	0	68	
Callahan Elementary School	6	100 S Booth Street	Callahan	N/A	326	0	0	326	
Callahan Intermediate School	1	Route 1, Box 1440, SR 1	Callahan	N/A	156	234	3,516	156	326
Callahan Middle School	3	SR 115	Callahan	N/A	1,417	0	0	1,417	
Hillard Middle School	15	106 W Illinois	Hilliard	N/A	1,247	627	9,409	588	649
Hilliard Elementary School	1	112 Ohio Street	Hilliard	N/A	109	0	0	0	
West Nassau High School	6	1 Warrior Drive	Callahan	N/A	1,272	602	9,030	666	649
Yulee Elementary School	9	389 Felmore Road	Yulee	N/A	185	370	5,867	0	370
Yulee Middle School *	3,4,5,6	321 Miner Rd	Yulee	32097	912	1,830	30,812	491	1,830
Yulee Primary School	7	964 Goodbread Drive	Yulee	N/A	200	0	0	200	
Yulee High School	4, 6	Miner Rd	Yulee		686	1,373	34,325	1,373	1,373
				TOTALS FOR NASSAU COUNTY	**6,578**	**5,036**	**92,959**	**5,285**	**5,197**

Year 2006	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	5,036	5,177	-141	92,959	310,620	-217,661	DEFICIT	

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
Hilliard ES	1	Miner Rd	Yulee		**No**	**109**	5,618		**109**

Year 2006	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	109	75	34	6,540	4,500	2,040	SURPLUS	

2006 Statewide Emergency Shelter Plan

OKALOOSA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Addie Lewis MS		281 Mississippi Avenue	Valparaiso	N/A	1,500	0	0	413	
Antioch Elementary School	1	4700 Whitehurst Lane	Crestview	32536	1,500	1,303	21,396	0	1,303
Baker High School	B18	1369 14th Street	Baker	32531	2,500	166	2,495	761	200
Blue Water Bay ES		4545 Range Rd	Niceville	32578	918	0	0	918	
Bruner Middle School		322 Holmes Boulevard	Ft. Walton	32548	2,500	0	0	1,088	
Choctawhatchee HS	12	110 Racetrack Road	Ft Walton			0	0	163	
Choctawhatchee HS	1E	110 racetrack Rd NW	Fort Walton Beach	32547	391	326	5,547		326
Crestview High School		1304 N Ferdon Boulevard	Crestview	32536	3,500	0	0	1,733	
Davidson MS	1	6261 Old Bethel Rd	Crestview	32536		0	0		
First Baptist Church		444 Highway 190	Valparaiso	32580	300	0	0	329	
Kenwood ES	10	634 Eagle St	Fort Walton Beach	32547		350	5,989		350
Laurel Hill High School		8078 4th Street	Laurel Hill	32567	500	0	0	327	
Longwood Elementary School		50 Holly Drive	Shalimar	N/A		0	0		
Niceville High School		800 E John Sims Parkway	Niceville	N/A		0	0		
Shalimar Elementary School		1350 Joe Martin Circle	Shalimar	32579	300	0	0	510	
TOTALS FOR OKALOOSA COUNTY					**13,909**	**2,145**	**35,427**	**6,242**	**2,179**

Year 2006	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	2,145	14067	-11,922	35,427	844,020	-808,593	DEFICIT	

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
Davidson MS		6261 Old Bethel Rd	Crestview	32536	**No**	**893**	53,556		**67**
Project		TBD	TBD		**No**		0		

Year 2006	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	893	353	540	53,580	21,180	32,400	SURPLUS	

2006 Statewide Emergency Shelter Plan

OKEECHOBEE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(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)
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	122	0	0	507	507
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	2,071	384	9,611	1,191	298
Osceola Middle School	6	825 SW 21st Street	Okeechobee	34972		297	5,068		297
Osceola Middle School	7	825 SW 21st Street	Okeechobee	34972		747	18,683		298
Presbyterian Church		312 N Parrot Avenue	Okeechobee	34972	133	0	0	133	
Sacred Heart Catholic Church		701 SW 6th STrret	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	500	1,011	20,215	500	1,011
Yearling Middle School		925 NW 23rd Lane	Okeechobee	34972	700	500	10,000	700	500
						0	0	500	
Public Health Center		1728 NW 9th Avenue	Okeechobee	34972	500	0	0		
Freshman Center Auditiorium	N	610 SW 2nd Ave	Okeechobee	34972		0	0	332	332
						0	0		
				TOTALS FOR OKEECHOBEE COUNTY	**7,827**	**2,939**	**63,577**	**6,976**	**3,243**

Year 2006	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	2,939	19,696	-16,757	63,577	393,920	-330,343	DEFICIT

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
Okeechobee CHD		1728 NW 9th Avenue	Okeechobee	34972	**Yes**	**66**	3,960		**66**

Year 2006	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	66	125	-59	3,960	7,500	-3,540	DEFICIT

2006 Statewide Emergency Shelter Plan

ORANGE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
All Saints Church of Winter Park		338 East Lyman Avenue	Winter Park	N/A	165	0	0		
Aloma Elementary School		2949 Scarlet Road	Winter Park	N/A	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	260	0	0		
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	N/A	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	N/A	710	710	14,200		710
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	614	0	0		
Cypress Creek High School	gym	1101 Bear Crossing	Orlando	N/A	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	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	N/A	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	710	0	0		

2006 Statewide Emergency Shelter Plan

ORANGE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Freedom High	7	2500 Taft-Vineland Rd	Orlando	32837		0	0		
Glenridge Middle School	4	801 Glenridge Way	Winter Park	32789	702	660	13,204		702
Glenridge Middle School	5	801 Glenridge Way	Winter Park	32789		188	3,751		
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		
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	N/A	500	500	10,000		500
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	N/A	602	533	13,816		533
Lee Middle School		1201 Maury Road	Orlando	N/A	706	0	0		
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 Middle School		300 South Bulford Avenue	Ocoee	N/A	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	N/A	559	559	12,429		559
Olympia High School	7-Gym	4301 S. Apopka-Vineland	Orlando	N/A	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		

2006 Statewide Emergency Shelter Plan

ORANGE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
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	N/A	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	N/A	696	0	0		
University High School	cafeteria-8	11501 Easterwood Drive	Orlando	N/A	0	329	5,256		329
University High School	gym-3	11501 Easterwood Drive	Orlando	N/A	735	0	0		
University of Central Florida		4000 Central Florida Pkwy	Orlando	N/A	2,075	0	0		
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	N/A	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		
				TOTALS FOR ORANGE COUNTY	**57,198**	**7,359**	**267,393**	**0**	**7,213**

Year 2006	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	7,359	14,034	-6,675	267,393	280,680	-13,287	DEFICIT	
Special Needs Storm Shelters								

2006 Statewide Emergency Shelter Plan

ORANGE									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)*	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Surveyed)*	**Local Planned Usage (reported capacity)**
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**
Blankner HS	2	2500 South Mills Ave	Orlando	32806	**No**	**134**	12,110		**134**
Freedom HS	3	2500 Taft-Vineland Rd	Orlando	32837	**No**	**236**	17,732		**134**
Freedom HS	7	2500 Taft-Vineland Rd	Orlando	32837	**No**	**134**	8,310		**134**
Olympia HS	7	4301 S. Apopka-Vineland	Orlando		**No**	**134**	8,100		**134**
University Hs	gym-3	11501 Easterwood Drive	Orlando		**No**	**266**	19,964		**134**
							0		
							0		

Year 2006	**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	904	679	225	54,240	40,740	13,500	SURPLUS	

2006 Statewide Emergency Shelter Plan

OSCEOLA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496 or Not Yet Surveyed)* [1]	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reproted capacity)
Beaumont MS		330 North Beaumont	Kissimmee	34741	0	0	0		
Boggy Creek Elementary School		810 Florida Parkway	Kissimmee	34741	0	0	0		
Celebration HS	2-gym	1809 Celebration Blvd				1,097	29,660		1,483
Celebration School		851 Celebration Avenue	Celebration	34747	1,050	0	0		
Central Avenue Elementary Schoo	1-café	1502 N Central Avenue	Kissimmee	34741	402	0	0		
Chestnut ES		4300 Chestnut St.	Kissimmee	34759		327	6,540		327
Cypress Elementary School		2251 Lakeside Drive	Kissimmee	34744	800	0	0		
Deerwood Elementary School		3701 Lakeside Drive	Kissimmee	34758	400	0	0		
Denn John Middle School		2001 Denn John Lane	Kissimmee	34744	750	0	0		
Discovery Intermediate	2-Café/gym					805	33,260		1,663
Discovery Intermediate School		5350 San Migel	Kissimmee	34758	1,027	0	0		
Florida Christian College	Gym					1,625	32,500		1,625
Gateway High School		801 Bill Beck Boulevard	Kissimmee	34744	620	0	0		
Harmony S HS	2	3601 ARTHUR J. GALLAGHER BOUL	SAINT CLOUD	34771		1,480	29,600		1,480
Hickory Tree Elementary School		2355 Hickory Tree Road	St. Cloud	34772	550	0	0		
Highlands Avenue Elementary School		800 W Donegan	Kissimmee	34741	500	0	0		
Horizon Middle School	2-gym	2020 Ham Brown Road	Kissimmee	34746	1,166	875	17,496		
Kenansville Comm Center	Center					120	2,400		120
Kissimmee Elementary School		2420 Dyer Boulevard	Kissimmee	34741	498	0	0		
Kissimmee ES	4-café					334	7,480		374
Kissimmee Middle School	2-gym	2410 Dyer Boulevard	Kissimmee	34741	1,166	875	17,496		875
Lakeview Elementary School		2900 5th Street	St. Cloud	34769	350	0	0		
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		500	10,000		500
Narcoossee Comm School	2-gym/café					710	14,200		710
Neptune Middle School		2727 Neptune Road	Kissimmee	34744	424	0	0		
Oak Leaf Landing		2350 N. Central Avenue	Kissimmee			330	6,600		330
Osceola Elementary "C"			Kissimmee			1,000	20,000		1,000
Osceola High School		420 S. Thacker Avenue	Kissimmee	34758	570	0	0		
Parkway Middle School		857 Florida Parkway	Kissimmee	34743	500	0	0		
Partin Settlement School	Cafeter	2434 Remington Blvd	Kissimmee	34744	561	0	0		561
Pleasant Hill Elementary School		1253 Pleasant Hill Road	Kissimmee	34746	435	0	0		
Poinciana ES	4					716	14,320		716
Poinciana High School	4	2300 S Poinciana Blvd	Kissimmee	34758	750	223	4,466		
Reedy Creek Elementary School		2300 Brook Court	Kissimmee	34758	1,880	1,410	28,200		1,410
Reedy Creek Elementary School	Bldg 3	2300 Brook Court	Kissimmee	34758		250	5,003		
Reedy Creek Elementary School (	Bldg 2	2300 Brook Court	Kissimmee	34758	1,880	900	18,000		900
Ross E. Jeffries School		1200 Vermont Avenue	St. Cloud	34769	250	0	0		
St. Cloud ES		2701 Budinger Ave	St. Cloud	34769		327	6,540		327
St. Cloud High School		2000 Bulldog Lane	St. Cloud	34769	635	0	0		
St. Cloud Middle School		1975 S Michigan Avenue	St. Cloud	34769	750	0	0		
Sunrise ES		1925 Ham Brown Rd	Kissimmee	34746		327	6,540		327
Thacker Elementary School		301 Thacker Avenue	Kissimmee	34741	345	0	0		
Ventura Elementary School		275 Water Edge Drive	Kissimmee	34743	500	0	0		

2006 Statewide Emergency Shelter Plan

OSCEOLA

						0	0		
				TOTALS FOR OSCEOLA COUNTY	**19,609**	**14,231**	**310,301**	**0**	**14,728**

Year 2006	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	14,231	10,478	3,753	310,301	209,560	100,741	SURPLUS	

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
Central Ave ES		1502 N Central Avenue	Kissimmee	34741	**no**	**500**	33,050		**500**
Partin Settlement ES	Cafeter	2434 Remington Blvd	Kissimmee	34744	**no**	**374**	41,950		**374**
St. Cloud Senior Center					**Yes**	**166**	9,960		166

Year 2006	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	1,040	320	720	62,400	19,200	43,200	SURPLUS	

2006 Statewide Emergency Shelter Plan

PALM BEACH									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)*	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Surveyed)*	**Local Planned Usage (reported capacity)**
Atlantic SHS	2,3,4,5,6,7	2455 W. atlantic Ave	Delray	33445	5,750	5,040	75,604		5,750
Bear Lakes Middle School	1,2,3,4, G	3505 Shenandoa Boulevard	W Palm Beach	33409	1,600	0	21,422		0
Bibletown community Church		407 NW 4th Ave	Boca Raton	33486	450	0	9,000		0
Boca Ration SHS	2,3,4,5,6	1501 NW 15th Ct	Boca Raton	33486	3,900	3,900	62,759		3,900
Boynton Beach High School	1,3,6	4975 Park Ridge Boulevard	Boynton Beach	33462	2,720	2,720	49,044		2,720
Carver Middle School	2,4,6,8	101 Barwick Road	Delray Beach	33445	1,460	0	23,246		0
Christa McCauliffe Middle School	1,2,3,4	6500 Le Chalet Boulevard	Boynton Beach	33437	1,600	0	25,840		0
Discovery Key Elementary School	1	3550 Lyons Road	Lake Worth	33467	800	800	33,806		800
Forest Hill SHS	3,4,6,7	8499 Forest Hill blvd	W. Palm Beach	33405	4,000	4,000	77,037		4,000
Frontier Elementary School	1	6701 180th Avenue, North	Loxahatchee	33470	800	800	33,489		800
Glades Central High School	4, 5	1001 SW Avenue M	Belle Grade	33430	3,800	2,244	33,662		3,800
Good Shepard Church		1800 Bacom Point Road	Pahokee	33476	56	0	0		
Hertiage ES	1	5100 Melaleuca Lane	Greenacres	33463	500	1,689	33,773	500	
Hidden Oaks ES	1					1,947	38,944		
Independence Middle	4					410	15,432		410
Lake Worth Middle School	1,2,3,4	1300 Barnett Drive	Lake Worth	33460	1,600	0	20,086		0
Lakeshore Middle School	2,3,4,7, 50	425 West Canal Street	Belle Grade	33430	2,800	2,800	44,493		2,800
McLeod Bethune ES	1	1501 Aveune U	Riviera Beach	33404	500	1,819	36,383	500	
North Grade Elementary School		824 North K Street	Lake Worth	33460	500	0	0		
Odyssey Middle School	4	6161 Woolbright Road	Boynton Beach	33437	515	515	17,581		515
Olympic Heights Comm. HS		20101 Lyons Road	Boca Raton	33437	1,900	0	38,000		0
Omni Middle School	C, D,F, G	5775 Jog Road	Boca Raton	33496	1,600	0	22,656		0
Pahokee Community Center		360 East 1st Street	Pahokee	33476	100	0	0		
Palm Beach Central High School	2,3,4,5,6,7,8	8499 W. Forest Hill Blvd.	Wellington	33414	5750	5,750	93,275		5,750
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	4950	4,376	65,641		4,950
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	3900	3,900	98,279		3,900
South Florida Fair Grounds		9067 Southern Boulevard	W Palm Beach	33411	500	0	0		
Spanish River Presbyterian Church		2400 Yamato Road	Boca Raton	33434	373	0	0		
W. Boca Raton Community High Sch	2,3,4,5,6,7,9,12	12811 Glades Rd.	Boca Raton	33428	3900	3,900	99,132		3,900
W.B. Duncan Middle School	3,4,6,7	5150 117th Court North	Palm Bch Gardens	33418	1,600	0	23,595		
Wellington Lands Middle School	1,2,3, 4	1100 Areo Club Drive	W Palm Beach	33414	1,600	0	25,786		
West Gate						0	0		
Westgate Elementary School		1545 Loxahatchee Road	W Palm Beach	33414		0	45,861		
Wm. T. Dwyer High School	1, 2, 8	13601 N Military Trail	Palm Bch Gardens	33418	1,900	2,343	58,579		1,900
						0	0		
						0	0		

2006 Statewide Emergency Shelter Plan

PALM BEACH

TOTALS FOR PALM BEACH COUNTY				63,752	48,953	1,222,405	1,000	45,895	
Year 2006	**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	48,953	44,250	4,703	1,222,405	885,000	337,405	SURPLUS		

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**
South Florida Fair Expo		9067 Southern Boulevard	W Palm Beach	33411	**Yes**	**333**	19,980		**333**
							0		
							0		
							0		
							0		
							0		

Year 2006	**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	333	291	42	19,980	17,460	2,520	SURPLUS

2006 Statewide Emergency Shelter Plan

PASCO									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)* [2]	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Surveyed)*	**Local Planned Usage (reported capacity)**
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	1,628	121	1,817		181
Centennial Elementray School		38501 Centennial Road	Dade City	33525	0	0	0	0	
Centennial Middle School	2	38501 Centennial Road	Dade City	33525	1232	786	11,797		882
Chasco Elementray/Middle School	2-1st flr	7720 Ridge Road	New Port Richey	34654	275	348	8,695		300
Chasco Elementray/Middle School	2-2nd flr	7720 Ridge Road	New Port Richey	34654	550	550	9,399		550
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	292	258	3,869		297
Denham Oaks Elementary School	2	14220 Oak Grove Blvd	Lutz	33548	478	380	5,703		487
Denham Oaks Elementary School	3	14220 Oak Grove Blvd	Lutz	33548	184	203	3,042		232
Denham Oaks Elementary School	5	14220 Oak Grove Blvd	Lutz	33548	244	227	5,686		195
Denham Oaks Elementary School	6	14220 Oak Grove Blvd	Lutz	33548	430	429	7,454		429
Denham Oaks Elementary School	7	14220 Oak Grove Blvd	Lutz	33548	260	204	3,057		249
Gulf High School		5355 School Road	New Port Richey	34652	1,595	0	0	1,595	
Hudson High School		14410 Cobra Way	Hudson	34669	3143	0	0	3,225	
Hudson High School		14410 Cobra Way	Hudson	34669	82	0	0		
JW Mitchell HS	7	2323 Little Road,	New Port Richey	34655		1,570	31,400		1,570
JW Mitchell HS	8	2323 Little Road,	New Port Richey	34655		820	16,400		820
JW Mitchell HS	9	2323 Little Road,	New Port Richey	34655		400	8,000		400
Lacoochee Elementary School	11	38815 Cummer Road	Lacoochee	33525	138	60	900	751	110
Lacoochee Elementary School	12	38815 Cummer Road	Lacoochee	33525	503	383	5,749		503
Lacoochee Elementary School	13	38815 Cummer Road	Lacoochee	33525	110	74	1,108		110
Longleaf Elementary School	4	2323 Little Road	New Port Richey	34655		1,060	26,500		804
Northwest Elementary School		14302 Cobra Way	Hudson	34669	1,403	0	0	1,403	
Pasco High School	16	36850 SR 52	Dade City	33525	204	83	1,248	610	198
Pasco High School	17	36850 SR 52	Dade City	33525	296	221	3,313		269
Pasco High School	18	36850 SR 52	Dade City	33525	110	50	750		88
Pineview Elementary School	1,2,3,4	5333 Parkway Blvd	Land O'Lakes	33549	1227	1,227	21,803		
Pineview Middle School	1	5334 Parkway Boulevard	Land O'Lakes	34639	617	0	0	770	
Pineview Middle School	5	5334 Parkway Boulevard	Land O'Lakes	34639	173	382	9,546		153
Raymond B. Stewart Middle School	10	38505 Tenth Avenue	Zephyrhills	33540	375	236	4,095		236
Raymond B. Stewart Middle School	9A/ 5	38505 Tenth Avenue	Zephyrhills	33540	112	122	2,879	364	122
River Ridge Middle/High School	1	11646 Town Center Road	New Port Richey	34654	240	321	4,812	3,507	339
River Ridge Middle/High School	2	11646 Town Center Road	New Port Richey	34654	527	517	7,761		652
River Ridge Middle/High School	3	11646 Town Center Road	New Port Richey	34654	874	636	15,899		291
River Ridge Middle/High School	4	11646 Town Center Road	New Port Richey	34654	468	330	8,245		238
River Ridge Middle/High School	5	11646 Town Center Road	New Port Richey	34654	401	665	16,623		135
River Ridge Middle/High School	24	11646 Town Center Road	New Port Richey	34654	102	0	0	0	
River Ridge Middle/High School	31	11646 Town Center Road	New Port Richey	34654	295	236	5,900		236
River Ridge Middle/High School	23-1st fl	11646 Town Center Road	New Port Richey	34654	333	0	0		
River Ridge Middle/High School	23-2nd flr	11646 Town Center Road	New Port Richey	34654	666	825	14,000		825
Saint Leo University	3	33701 SR 52	St Leo	33525	353	0	0	2,823	
Saint Leo University	4	33701 SR 52	St Leo	33525	353	291	5,820		291
Saint Leo University	17	33701 SR 52	St Leo	33525	340	0	0		
Saint Leo University	19	33701 SR 52	St Leo	33525	161	346	6,920		346

2006 Statewide Emergency Shelter Plan

PASCO

Saint Leo University	22	33701 SR 52	St Leo	33525	0	0	0		
Saint Leo University	24	33701 SR 52	St Leo	33525	168	525	10,500		525
Saint Leo University		33701 SR 52	St Leo	33525	349	231	4,620		231
Schrader Elementary School	9	11041 Little Rd	New Port Richey	34654	850	683	10,252	850	
Seven Oaks Elementary	4	27633 Mystic Oak	Wesley Chapel	33544		1,060	26,500		804
Seven Springs Middle School	C	2441 Little Road	New Port Richey	34654	1,180	944	23,600		834
Shady Hills Elementary School		18000 Shady Hills Road	Spring Hill	34610	1,869	0	0	1,869	
Thomas Weightman Middle School	2	30649 Wells Road	Zephyrhills	33544	28	389	10,820	1,526	389
Thomas Weightman Middle School	3	30649 Wells Road	Zephyrhills	33544	425	698	17,446		573
Thomas Weightman Middle School	4	30649 Wells Road	Zephyrhills	33544	28	401	6,018		427
Thomas Weightman Middle School	5	30649 Wells Road	Zephyrhills	33544	130	234	3,969		234
Thomas Weightman Middle School	6	30649 Wells Road	Zephyrhills	33544	28	351	5,270		427
Thomas Weightman Middle School	8	30649 Wells Road	Zephyrhills	33544	28	401	6,018		427
Trinity ES	1,2,3,4	2209 Duck Slough Blvd	New Port Richey	34654	1170	849	21,216		775
Wesley Chapel High School	1	30651 Wells Road	Wesley Chapel	33544	150	0	2,040		
Wesley Chapel HS	2	30651 Wells Road	Wesley Chapel	33544		1,264	18,954		1,850
Wesley Chapel HS	3	30651 Wells Road	Wesley Chapel	33544		1,119	16,780		1,570
Wesley Chapel HS	5	30651 Wells Road	Wesley Chapel	33544		321	4,816		370
Wiregrass High School		Under Construction	Wesley Chapel	33544		0	0		
Zephyrhills High School	1	6335 12 Street	Zephyrhills	33540	176	0	0		
Zephyrhills High School	11	6335 12 Street	Zephyrhills	33540	117	157	3,339	1,740	157
						0	0		
				TOTALS FOR PASCO COUNTY	**33,055**	**23,988**	**472,348**	**22,965**	**22,131**

Year 2006	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	23,988	53,224	-29,236	472,348	1,064,480	-592,132	DEFICIT	

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)	
Wiregrass HS (2006)			Wesley Chapel	33544	**No**	**500**	30,000		**500**
Weightman MS	1	30651 Wells Road	Wesley Chapel	33544	**No**	**333**	19,980		**333**
River Ridge MS	24	11646 Town Center Road	New Port Richey	34654	**Yes**	**222**	13,320		222
Zephyr Hills HS	1	6335 12 Street	Zephyrhills	33540	**No**	**0**	0	117	117
							0		
							0		

Year 2006	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	1,055	783	272	63,300	46,980	16,320	SURPLUS	

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PINELLAS									
Name	**Bldg. #**	**Address**	**City**	**Zip**	**Host Capacity In People**	**Total Risk Capacity In People** *(Meets ARC 4496)*[2]	**Total Risk Capacity (ft^2)** *(Meets ARC 4496)*	**Risk Capacity In People** *(Does not Meet ARC 4496 or Not Yet Surveyed)*	**Local Planned Usage (reported capacity)**
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	105	
Bauder Elementary School	1	12755 86 Avenue North	Seminole	33776	470	0	0	336	
Boca Ciega High School		934 58 Street South	Gulfport	33707	1,551	0	0	1,040	
Brooker Creek E S	4					342	6,840		342
Brooker Creek E S	5					342	6,840		342
Calvary Baptist Church		331 Cleveland Street	Clearwater	34615	1,000	0	0	1,000	
Carwise Middle School	4 & 5	3301 Bentley Drive	Palm Harbor	34684	2,523	2,400	48,000	1,593	2,400
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	4,219	250	5,000	1,626	250
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					340	6,800		340
Doug Jamerson ES	5					340	6,800		340
Doug Jamerson ES	4&5	2350 22 Ave S	St Petersburg	33714	736	61	1,210		61
Dunedin Highland Middle School	2-5	70 Patricia Avenue	Dunedin	34698	1,333	1,333	80,000		1,333
Dunedin MS	All	896 Union St	Dunedin	34698	2500	0	0		
East Lake High School	2,3,5,9	1300 Silver Eagle Drive	Tarpon Springs	34689	2,246	2,225	44,500	1,452	2,225
Eisenhower Elementary	1	2800 Drew Street	Clearwater	34619	1,642	0	0	614	
Fairmont Park Elementary School	4&5	4100 5TH Ave S	St Petersburg	33711	736	61	1,210	680	61
Fairmont Park Elementary School		575 41 Street South	St Petersburg	33711	373	0	0	373	
Fairmount Park ES	4					340	6,800		340
Fairmount Park ES	5					340	6,800		340
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	2,500	2,500	50,000		2,500
Hamilton Disston School		5125 11 Avenue South	Gulfport	33707	698	0	0	569	
Holy Trinity Greek		409 Old Coachman	Clearwater	33761	620	0	0	620	
James Sanderlin ES	4					340	6,800		340
James Sanderlin ES	5					340	6,800		340
John Hopkins Middle School	5&6	701 16 Street South	St Petersburg	33705	1,410	0	0	703	
Kennedy Middle School	1 (1st flr halls)	1660 Palmetto Street	Clearwater	33755	868	1,900	38,000	868	1,900
Lakewood High School		1400 54 Avenue South	St Petersburg	33700	2,172	0	0	629	
Largo High School	11	410 N Missouri Avenue	Largo	33770	1,665	0	0	700	
Largo Middle School	8,9,10,11	115 8 Avenue SE	Largo	33771	2,390	1,565	31,300	1,751	1,565
Lealman Intermediate Middle School	1,2,4,5	4100 35th Street N	St Petersburg	33714	2400	2,400	48,000		2,400

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Leila Davis Elementary School		2630 Landmark Drive	Clearwater	34621	1,902	0	0	1,206	
McMullen Booth E S	4					342	6,840		342
McMullen Booth E S	5					342	6,840		342
Meadowlawn Middle School		5900 16 Street North	St Petersburg	33703	2500	2,500	50,000		2,500
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	1,325	0	0	1,325	
Northwest Elementary School		5601 22 Avenue North	St Petersburg	33710	535	0	0	535	
Oak Grove Middle School		1370 S Belcher Road	Clearwater	33764	2,400	2,400	48,000		2,400
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	1800 SR 584	Palm Harbor	34683	1,820	1,820	36,400	629	1,820
Palm Harbor University HS	1 & 5	1900 Omaha Street	Palm Harbor	34683	2,050	2,050	41,000	1,128	2,050
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	3,177	2,075	41,500	1,120	2,075
Pinellas Technical Education Center		901 34 Street South	St Petersburg	33711	2,136	0	0	1,602	
Safety Harbor M. S. (2,3,4,5,6,7,9,11,12,14 & 15)		125 7 Street North	Safety Harbor	34695	2,378	2,500	50,000	580	2,500
Sanderlin ES	4&5	1200 37 St S	St Petersburg	33712	736	61	1,210		61
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	13	0	0		
Seminole Middle School	1 & 13	8701 131st Street North	Seminole	33776	1,436	0	0	742	
Seminole Recreation Center		9100 113 Street North	Seminole	33772	685	0	0	390	
Sexton ES	4 & 5					0	0	684	
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	1,804	1,755	35,100	1,524	1,755
Tarpon Springs Middle School	4 & 5	500 N Florida Avenue	Tarpon Springs	34689	1,654	1,820	36,400	454	1,820
Thurgood Marshall Middle School		3901 22 Ave. S.	St Petersburg	33711	3,000	3,000	60,000		3,000
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					**86,601**	**38,084**	**814,990**	**45,266**	**38,084**

Year 2006	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	38,084	122,444	-84,360	814,990	2,448,880	-1,633,890	DEFICIT

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)
Dunedin MS	all	896 Union St	Dunedin	34698	**No**	**1,000**	60,000		**1,000**

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J.Hopkins MS	5 & 6	701 16 Street South	St Petersburg	33705	**No**	**800**	48,000		**800**
Seminole MS	1 & 13	8701 131st Street North	Seminole	33776	**No**	**433**	25,980		**433**
Year 2006	**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	2,233	700	1,533	133,980	42,000	91,980	SURPLUS		

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POLK

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Alta Vista ES	9					451	9,012		451
Auburndale High School		1 Bloodhound Trail	Auburndale	33823	2,577	0	0	644	
Bartow Adult Day Care Center	center					0	0		
Bartow Family Health Care Center		5 Brice Boulevard	Bartow	33830	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	444	540	10,777	110	540
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					365	7,300		365
Chain of Lakes ES	6					143	2,866		143
Chain of Lakes ES	3th- 2nd floor					567	11,332		567
Chain of Lakes ES	3th-1st floor					574	11,489		574
Chain of Lakes ES	4th- 1st floor					571	11,416		571
Chain of Lakes ES	4th-2nd floor					562	11,248		562
Churchwell Elementary School		8201 Park Byrd Road	Lakeland	33809	1,037	0	0	259	
Combee ES	17					359	7,171		359
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					526	10,524		526
Eastside Elementary School		1820 E Johnson Avenue	Haines City	33844	375	0	0	94	
Elementary School "G"			Winter haven	33880	2783	2,783	55,657		2,783
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					0	0		
Haines City High School	1	2800 Hornet Drive	Haines City	33844	1,050	0	0	263	
Haines City High School	3	2800 Hornet Drive	Haines City	33844		0	0		
Haines City High School	6	2800 Hornet Drive	Haines City	33844		0	0		
Haines City High School	7	2800 Hornet Drive	Haines City	33844		0	0		
Haines City High School	8	2800 Hornet Drive	Haines City	33844	904	429	6,431		540
Haines City High School	18	2800 Hornet Drive	Haines City	33844		0	0		
High School "AAA"			Davenport	33837	4207	4,207	84,136		4,207
						0	0	375	
Jewett School of the arts	7	601 Avenue T NE	Winter Haven	33881	303	688	13,751	76	688
Jewett School of the Arts	9	601 Avenue T NE	Winter Haven	33881		444	8,870		444
Jewett School of the arts (Arts Clas	8	601 Avenue T NE	Winter Haven	33881		268	5,367	76	268
Karen Siegel Academy (General cla	cafeteria	SR 557	Lake Alfred	33850	30	68	1,018		104
Kathleen ES	11					678	13,568		678
Kathleen High School		2600 N Crutchfield Road	Lakeland	33809	934	0	0	234	

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Kathleen Middle School		3627 Kathleen Pine Road	Lakeland	33810	131	0	0	35	
Kathleen MS	3					575	11,497		575
Lake Alfred Elementary School		550 E Cummings Street	Lake Alfred	33850	570	0	0	143	
Lake Gibson High School		7007 N Socrum Loop	Lakeland	33809	1,471	0	0	368	
Lake Gibson Middle School		6901 N Socrum Loop	Lakeland	33809	1,218	0	0	305	
Lake Gibson Senior	14					845	16,891		845
Lake Region High School	1	1995 Thunder Road	Eagle Lake	33839		0	0		
Lake Region High School	2	1995 Thunder Road	Eagle Lake	33839		318	4,768		473
Lake Region High School	3	1995 Thunder Road	Eagle Lake	33839		211	3,172		514
Lake Region High School	4	1995 Thunder Road	Eagle Lake	33839		478	7,168		568
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 Middle School		740 Lake Miriam Drive	Lakeland	33813	773	0	0	193	
Lakeland Highlands MS	3					557	11,145		557
Lewis Elementary School		115 S Oak Avenue	Ft. Meade	33841	645	0	0	161	
Lime Street Elementary School		1225 E Lime Street	Lakeland	33801	492	0	0	123	
Lime Street ES	9					583	11,664		583
Lime Street ES	10					451	9,017		451
Lincoln Avenue Academy	9					509	10,175		509
Loughman Oaks ES	7					454	9,089		454
McKeel Academy (gym)	14	1810 W. Parker St	lakeland	33815	727	727	14,532		727
McLaughlin Middle School		800 S 4th Street	Lake Wales	33853	162	0	0	41	
Middle School "AA" (Poincinia)	2					503	10,052		503
Middle School "AA" (Poincinia)	6					466	9,326		466
Middle School "AA" (Poincinia)	3- 1st floor					602	12,034		602
Middle School "AA" (Poincinia)	3- 2nd floor					714	14,288		714
Middle School "AA" (Poincinia)	5- 1st floor					712	14,236		712
Middle School "AA" (Poincinia)	5- 2nd floor					712	14,238		712
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					495	7,427	41	660
N.E. Roberts ES (Classroms)	6					325	4,875	41	521
N.E. Roberts ES (Dining)	2					296	4,447	41	320
New Elementary School "I" -Sleepy	5					484	9,676		484
New Elementary School "I" -Sleepy	3- 1st floor					609	12,172		609
New Elementary School "I" -Sleepy	3-2nd floor					609	12,172		609
New Elementary School "I" -Sleepy	4- 1st floor					600	12,007		600
New Elementary School "I" -Sleepy	4-2nd floor					609	12,172		609
New Elementry School "J"- Lian He	5					484	9,676		484
New Elementry School "J"- Lian He	3-1st floor					609	12,172		609
New Elementry School "J"- Lian He	3-2nd floor					609	12,172		609
New Elementry School "J"- Lian He	4-1st floor					600	12,007		600
New Elementry School "J"- Lian He	4-2nd floor					609	12,172		609
Padgett Elementary School		110 Leelon Street	Lakeland	33809	340	0	0	85	
Pinewood ES	6					460	9,206		460
Polk City Elementary School		125 S Bougenvilla Avenue	Polk City	33868	100	0	0	25	
Purcell ES	3					561	11,219		561
R.B. Wagner Elementary	2					298	4,477		320
R.B. Wagner Elementary	4					495	7,427		660

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R.B. Wagner Elementary	6					325	4,875		521
Ridge Community Senior	5					377	7,540		377
Ridge Community Senior	6					1,235	24,702		1,235
Ridge Community Senior	-1st and 2nd floor					1,305	26,108		1,305
Ridge Community Senior	3- 1st&2nd floors					1,289	25,786		1,289
Ridgeview Elementary	2					643	12,860		643
Ridgeview Elementary	6					590	11,792		590
Ridgeview Global Studies Academy	2,6	1000 Dunson Rd.	Davenport	33837	1,232	589	11,780		589
Rochelle School of Arts		1501 MLK Avenue	Lakeland	33805	158	0	0	40	
Rochelle School of the Arts	15					963	19,260		963
Roosevelt Vocational		115 E Street	Lake Wales	33853	204	0	0	51	
Sandhill Elementary	2					305	4,582		305
Sandhill Elementary	2	1801 Tyner Rd.	Haines City	33844	1,232	0	0		
Sandhill Elementary	6					260	3,905		260
Scott Lake Elementary School		1140 SR 540A	Lakeland	33813	1,193	0	0	298	
Scott Lake ES	4					538	10,766		538
Southwest ES	9					443	8,858		443
Southwest Middle School		2815 S Eden Parkway	Lakeland	33803	379	0	0	95	
Spook Hill ES	14					454	9,089		454
Stambaugh Middle School	1	226 N Bartow Road	Auburndale	33823	1,232	0	0	308	
Stambaugh Middle School	3	226 N Bartow Road	Auburndale	33823		0	0		
Stambaugh Middle School	8	226 N Bartow Road	Auburndale	33823		0	0		
Stambaugh Middle School		226 N Bartow Road	Auburndale	33823	1,232	0	0	0	
Stephens ES	5	1350 N Maple Street	Bartow	33830	1,500	485	9,698		485
Westwood Middle School		3520 Avenue J NW	Winter Haven	33881	1,082	0	0	271	
Winter Haven High School		600 6th Street SE	Winter Haven	33880	845	0	0	211	
						0	0		
					TOTALS FOR POLK COUNTY	**44,713**	**42,193.00**	**822,302**	**8,278**	**43,656**

Year 2006	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	42,193	42,086	107	822,302	841,720	-19,418	SURPLUS

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
lakeland Senior Center, Bartow, Haines City Senior Centers					**No**	**0**	0	**700**	**0**
							0		
							0		
							0		
							0		
							0		

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POLK							
Year 2006	**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	1112	-1,112	0	66,720	-66,720	DEFICIT

2006 Statewide Emergency Shelter Plan

PUTNAM

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Browning-Pearce ES	4	100 Beer Boulevard	San Mateo	32187	400	0	0	400	
Crescent City High School		2201 S Highway 17	Crescent City	32112	1,063	0	0		
Interlachen High School		126 N SR 315	Interlachen	32148	1,063	0	0		
Jenkins Middle School		1100 N 19th Street	Palatka	32177	600	0	0		
Ochwilla School	4	299 N SR 21	Melrose	N/A	325	260	3,894		325
Middleton Burney Elementary School		1020 Huntington Road	Crescent City	32112	250	0	0		
Palatka High School		302 Mellon Road	Palatka	32177	1,000	0	0		
Price Martin Community Center		220 N 11th Street	Palatka	32177	249	0	0		
QI Roberts MS	2	901 SR100	Florahome	32140		193	4,321		193
QI Roberts MS	5	901 SR100	Florahome	32140		424	8,485		424
QI Roberts MS	6	901 SR100	Florahome	32140		194	4,687		194
Q I Roberts MS		SR100				0	0		
Kelly Smith Elementary School		141 Kelly Smith Road	Palatka	32177	1,072	0	0		
				TOTALS FOR PUTNAM COUNTY	**6,022**	**1,071**	**21,387**	**400**	**1,136**

Year 2006	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	1,071	9539	-8,468	21,387	190,780	-169,393	DEFICIT

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)
K. Smith School- New bldg		141 Kelly Smith Road	Palatka	32177	**No**	**0**	0		**0**

Year 2006	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	95	-95	0	5,700	-5,700	DEFICIT

2006 Statewide Emergency Shelter Plan =

SANTA ROSA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Avalon Middle School	37	5445 King Arthur's Way	Milton	32583	2832	352	8,855	2832	1846
Avalon Middle School	37	5445 King Arthur's Way	Milton	32583		1,494	26,855		
Dixon Intermediate School	33	5540 Education Road	Pace	32571	2,656	2,193	37,469	2,656	2,193
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	214
Thomas L. Sims Middle School	31	5500 Education Drive	Pace	32571	2,567	0	0	2,567	
Berry Hill Elementary School		4900 Berry Hill Road	Milton	32570	250	0	0	250	
City of Milton Community Center		5629 Byron	Milton	32570	612	383	7,040		383
						0	0		
					TOTALS FOR SANTA ROSA COUNTY	**4,636**	**84,499**	**11,675**	**4,636**

Year 2006	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	4,636	9,221	-4,585	84,499	184,420	-99,921	DEFICIT	

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)
Sims MS	31	5500 Education Drive	Pace	32571	**No**	**351**	21,060		**351**
Milton Comm. Ctr		5629 Byron	Milton	32570	**Yes**	**26**	1,560		**26**

Year 2006	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	377	150	227	22,620	9,000	13,620	SURPLUS	

2006 Statewide Emergency Shelter Plan

Sarasota

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Alta Vista ES		1050 South Euclid Avenue	Sarasota	34237	310	0	0		
ARC Chapter		2001 Cantu Court	Sarasota	34232	200	0	0	200	
Ashton Elementary School	1	5101 Aston Road	Sarasota	34223	844	0	0	844	844
Ashton Elementary School	2	5101 Aston Road	Sarasota	34223	793	0	0	793	793
Bishop Niven (Contract Pending)	Dome A	4380 Fruitville Road	Sarasota	342436		1,085	21,701		1085
Bishop Niven (Contract Pending)	Dome B	4380 Fruitville Road	Sarasota	342436		779	15,580		779
Bishop Niven (Contract Pending)	Dome E	4380 Fruitville Road	Sarasota	342436		623	12,455		623
Bishop Niven (Contract Pending)	Dome F	4380 Fruitville Road	Sarasota	342436		623	12,455		623
Booker High School		3201 N Orange Avenue	Sarasota	34234	469	0	0	460	
Booker Middle School	6	2250 Myrtle Street	Sarasota	34234	475	475	8,332		
Booker Middle School	7	2250 Myrtle Street	Sarasota	34234	400	400	8,125		400
Brookside Middle School (2000 constructi	4	3636 S Shade Avenue	Sarasota	34293	2,189	1,308	19,624	1,459	
Brookside Middle School	5	3636 S Shade Avenue	Sarasota	34293		730	3,500	730	
Church of Jesus Christ - Latter Day Saints		7001 Beneva Road	Sarasota	34231	105	0	0		
Church of the Incarnation		2927 Bee Ridge Road	Sarasota	34239	204	0	0		
Cranberry Elementary	1	2775 Shallimar Terrace	North Port	34286		2,895	57,900		2,895
Elementary A	1	Palmer Blvd	Sarasota			2,895	57,900		2,895
Emma Booker Elementary School		2350 MLK Jr. Way	Sarasota	34234	960	0	0	544	
Englewood United Methodist Church		700 East Dearborn Street	Sarasota	34223	450	0	0		
Fruitville Elementary School		601 Honore Avenue	Sarasota	34232	1,797	0	0		
Garden Elementary School	1	700 Center Road	Venice	34293	750	0	0	750	
Glennallen Elementary	#1, Sec 400	7050 Glenallen Boulevard	North Port	34287	1221	428	8,078		428
Glennallen Elementary	#1, Sec300	7050 Glenallen Boulevard	North Port	34287		428	8,547		428
Gocio Elementary School	3	3450 Gocio Road	Sarasota	34235	2,075	0	0		
Gocio Elementary School	5	3450 Gocio Road	Sarasota	34235		0	0		
Gulf Gate Elementary School	Cafeteria	6500 Lockwood Ridge Rd	Sarasota	34231		270	5,338	270	270
Gulf Gate Elementary School	Several	6500 Lockwood Ridge Rd	Sarasota	34231	2,113	2,470	49,000		2,470
Lakeview Elementary School	#1, Sec 300	7299 Proctor Road	Sarasota	34241	1,404	428	8,547		428
Lakeview Elementary School	#1, Sec 400	7299 Proctor Road	Sarasota	34241		404	8,078		404
Lakeview Elementary School	#1, Sec 500	7299 Proctor Road	Sarasota	34241		398	7,949		398
Laurel Middle School	4	1900 East Laurel Road	Laurel	34275	850	0	0	1,202	
Laurel Middle School	6	1900 East Laurel Road	Laurel	34275		0	0		
McIntosh Middle School		701 S McIntosh Road	Sarasota	34232	2,590	0	0	500	
North Port Heron Creek MS	1	6501 W. Price	North Port 34287	34287		5,400	10,800		5,400
North Port Toledo Blade		1201 Geranium Avenue	North Port	34287	1,650	0	0	830	
North Porth High School	Several	6400 West Price Blvd	North Port	34287	5,036	5,036	154,395		5,036
Oak Park School	4	7285 Proctor Road	Sarasota	34241		0	0		
Oak Park School	2A	7285 Proctor Road	Sarasota	34241		0	0	1,597	
Oak Park School	2B	7285 Proctor Road	Sarasota	34241		0	0		
Oak Park School	3A	7285 Proctor Road	Sarasota	34241		0	0		
Oak Park School	3B	7285 Proctor Road	Sarasota	34241		0	0		
Philippi Shores	1	4747 S. Tamiami Trail	Sarasota	34231		2,895	57,900		2,895
Pineview School	1	501 Old Venice Road	Osprey	34229	1,932	261	3,919	1,932	325

2006 Statewide Emergency Shelter Plan

Sarasota

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Pineview School	2	501 Old Venice Road	Osprey	34229		290	4,363		290
Pineview School	3	501 Old Venice Road	Osprey	34229		0	0		
Pineview School	4	501 Old Venice Road	Osprey	34229		0	0		
Pineview School	8	501 Old Venice Road	Osprey	34229		0	0		
Pineview School	10	501 Old Venice Road	Osprey	34229		0	0		
Pineview School	11	501 Old Venice Road	Osprey	34229		267	4,001		350
Pineview School	12	501 Old Venice Road	Osprey	34229		0	0		
Riverview High School		1 Ram Way	Sarasota	34231	500	0	0		
San Pedro Catholic Church		14380 Tamiami Trail	Sarasota	34224	350	0	0		
Sarasota County Technical Center		4748 Beneva Road	Sarasota	34233	300	0	0	300	
Sarasota Family YMCA		1075 S Tuttle Avenue	Sarasota	34297	615	0	0		
Sarasota High School	13	1000 South School Avenue	Sarasota	34237	2,803	2,702	40,525		2,828
Sarasota High School	14	1000 South School Avenue	Sarasota	34237		2,505	47,612		2,505
Sarasota Middle School	4	4826 Ashton Road	Sarasota	34233		350	5,142		350
Sarasota Middle School	6	4826 Ashton Road	Sarasota	34233		464	7,864		464
Sarasota Middle School	7	4826 Ashton Road	Sarasota	34233		320	4,793		389
Sarasota Middle School	8	4826 Ashton Road	Sarasota	34233	389	0	0		
Sarasota Middle School	9	4826 Ashton Road	Sarasota	34233	237	0	0		
Sarasota Middle School	10	4826 Ashton Road	Sarasota	34233	237	0	0		
Sarasota Middle School	11	4826 Ashton Road	Sarasota	34233	237	0	0		
Southside Elementary	1	1901 Webber	Sarasota	34239		0	0		
Sudakoff Conference Center, USF		5700 North Tamiami Trail	Sarasota	34234	400	0	0		
Taylor Ranch Elementary School	1	2500 Taylor Ranch Road	Venice	34293	322	0	0		
Taylor Ranch Elementary School	4	2500 Taylor Ranch Road	Venice	34293	165	0	0		
Taylor Ranch Elementary School	5	2500 Taylor Ranch Road	Venice	34293		275	6,863		251
Taylor Ranch Elementary School	6	2500 Taylor Ranch Road	Venice	34293		416	8,097		416
The Tabernacle		4141 Desoto Road	Sarasota	34235	300	0	0	300	
Toledo Blade ES	1	1201 Geranium Avenue	North Port	34287		320	4,992		320
Toledo Blade ES	3	1201 Geranium Avenue	North Port	34287		190	2,849		199
Toledo Blade ES	4	1201 Geranium Avenue	North Port	34287		278	4,163		306
Toledo Blade ES	5	1201 Geranium Avenue	North Port	34287		425	8,679		425
Toledo Blade ES	6	1201 Geranium Avenue	North Port	34287		416	7,235		416
Toledo Blade ES	7	1201 Geranium Avenue	North Port	34287		306	6,125		306
Toledo Blade ES	10	1201 Geranium Avenue	North Port	34287		322	6,400		322
Tuttle Elementary School	1&2	925 N Brink Avenue	Sarasota	34237		3,493	69,868		3,493
Venice Area Middle School		1900 Center Road	Venice	34293	800	0	0	600	
Venice Community Center	1		Venice		1000	650	13,000	1,000	1,000
Venice Elementary - 8/1/05	1		Venice			5,565	111,300		5,565
Venice United Church of Christ		620 Shamrock Blvd	Venice	34293	220	0	0		
Wilkinson Elementary School		3400 Wilkinson Road	Sarasota	34231	1,612	0	0	276	
Wilkinson Elementary School 8/1/05		3400 Wilkinson Road	Sarasota	34231	2375	2,375	47,500		2375
				Totals for Sarasota County	**41,679**	**52,160**	**951,494**	**14,587**	**51,989**

2006 Statewide Emergency Shelter Plan

Sarasota

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)

Year 2006	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	52,160	62,149	-9,989	951,494	1,242,980	-291,486	DEFICIT

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
New HS (Southside)					**No**	**500**	30,000		**500**
Oak Park School		7285 Proctor Road	Sarasota	34241	**Yes**	**525**	31,500		**525**
							0		
							0		
							0		
							0		

Year 2006	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	1,025	1400	-375	61,500	84,000	-22,500	DEFICIT

2006 Statewide Emergency Shelter Plan

SEMINOLE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bentley ES	1	2190 Oregon Avenue	Sanford	32771	100	0	0		
Elementary School "L"	1					500	10,000		500
English Estates Elementary School - Bld	100	299 Oxford Road	Fern Park	32370		692	17,300		1,000
Geneva Elementary School - Bldg 4	4	275 1st Street	Geneva	32372		116	2,900		275
Highlands Elementary School	1	1600 Shepard Road	Winter Springs	32708	500	0	0		212
John Evans Elementary	1	141 Academy Drive	Oviedo	32765	500	818	20,458		424
Lake Brantley High School	6,7, &8	991 Sand Lake Road	Altamonte Springs	32714	2,000	2,000	8,749		2,000
Lake Mary High School	Gym/Café	655 Longwood/Lake Mary Rd	Lake Mary	32746	2,000	1,810	45,239		1,200
Lawton Chiles MSI	4&5`	3225 Lockwood Boulevard	Oviedo	32765	1,000	1,000	13,046		750
Layer ES	Café	SR 419	Winter Springs	32708	500			375	375
Lyman High School	7	865 CR 427 South	Longwood	32750	2,000	999	14,981		1,500
Midway ES	1					500	10,000		500
Millenium MS	3&5	21 lakeview Drive	Sanford	32773	2,000	648	12,961		650
Walker ES	Café	3101 Snowhill	Chuluota	32766	500			375	375
Winter Springs High School	5	130 Tuskawilla Road	Winter Springs	32708		873	17,460		2,200
Winter Springs High School	6	130 Tuskawilla Road	Winter Springs	32708		873	17,460		
Winter Springs High School	7	130 Tuskawilla Road	Winter Springs	32708	2,000	1,000	17,460		
Winter Springs High School	6,7	130 Tuskawilla Road	Winter Springs	32708		0	0		
						0	0		
				TOTALS FOR SEMINOLE COUNTY	**13,100**	**11,829**	**208,014**	**750**	**11,961**

Year 2006	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	11,829	3361	8,468	208,014	67,220	140,794	SURPLUS	

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
Bentley ES	1	2190 Oregon Avenue	Sanford	32771	**No**	**113**	8,479		**66**
Highlands ES	1	1600 Shepard Road	Winter Springs	32708	**No**	**113**	8,479		**66**
							0		
							0		
							0		

Year 2006	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	226	125	101	13,560	7,500	6,060	SURPLUS	

2006 Statewide Emergency Shelter Plan

ST. JOHNS

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
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	250	1,098	27,455	0	500
Cunningham Creek Elementary Sch	2,3,4	1205 Roberts Road	St. Augustine	32259	400	1,200	20,788	0	1,200
Durbin Creek Elementary	1	3810 Race Track Road	Jacksonville	32259	200	1,788	44,688		400
First Coast Technical Institute	C	2980 Collins Avenue	St. Augustine	n/a	125	0	0		
Fruit Cove Elementary	Gym		St. Augustine			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					800	16,000		400
Hickory Creek ES		781 Greenbriar Rd	Jacksonville	32259		500	10,000		500
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	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	400	929	13,930	0	1,200
Otis Mason Elementary School	2,3,4	SR 207 & I-95	St. Augustine	32086	400	1,200	19,926	0	1,200
Pedro Menendez High School	4-Gym	600 SR-206 West	St. Augustine	n/a	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 SI	Hastings	32033		500	10,000		500
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	110	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		500	10,000		500
Webster Elementary		420 North Orange Street	St. Augustine	n/a	40	0	0	80	
						0	0		
TOTALS FOR ST. JOHNS COUNTY					**5,136**	**12,070**	**251,872**	**3,604**	**8,600**

Year 2006	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	12,070	9,873	2,197	251,872	197,460	54,412	SURPLUS	

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
First Coast Tech "C" (1993)	C	2980 Collins Avenue	St. Augustine	n/a	**No**	**146**	8,760		**146**
New School (2006)					**No**	**500**	30,000		**500**
							0		

2006 Statewide Emergency Shelter Plan

ST. JOHNS								
Year 2006	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	

2006 Statewide Emergency Shelter Plan

ST. LUCIE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bayshore ES	1	1661 SW Bayshore Blvd	Port St. Lucie	34984	100	499	12,481	150	220
C.A. Moore Elementary School	9-Café	827 N 29th Street	Ft. Pierce	34947	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		0	0		
Fairlawn Elementary School		1900 S 33rd Street	Ft. Pierce	34947	100	0	0	100	
Forest Grove Middle School		1501 SE Floresta Drive	Port St. Lucie	34983	0	0	0	0	
Foresta Elementary School	1	3201 S 25th Street	Ft. Pierce	34950	100	770	19,247	100	411
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	
Oak Hammock K-8 School	1	1251 SW California Blvd	Port St. Lucie	34953		1,521	30,425		
Oak Hammock K-8 School	2	1251 SW California Blvd	Port St. Lucie	34953		1,576	31,515		
Oak Hammock K-8 School	4	1251 SW California Blvd	Port St. Lucie	34953		513	12,826		500
Oak Hammock K-8 School	5	1251 SW California Blvd	Port St. Lucie	34953		487	9,738		
Lakewood Park Elementary Sch	1	7800 Indrio Road	Ft. Pierce	34951	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	300	361	9,022	350	215
Mariposa Elementary School	1,3,6,7	2620 SE Maripose Avenue	Port St. Lucie	34952	400	361	9,022	475	225
Morningside Elementary School	1	2300 SE Gowin Drive	Port St. Lucie	N/A	160	543	13,566	200	215
Port St. Lucie Senior High Scho	3	1000 SW Darwin BLVD	Port St Lucie	34984		1,875	46,874		500
New K-8 (AA)		Cashmere	Port St Lucie	34986		500	10,000		500
Northport Middle School		250 NW Floresta	Port St. Lucie	34983	250	0	0	250	
Parkway Elementary School	1	7000 NW Selvitz Road	Ft. Pierce	34981	100	417	10,418	150	220
Port St. Lucie Community Center		2195 SE Airoso Boulevard	Port St. Lucie	34984	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	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	0	0	0	500	
St. Lucie West Middle School		1001 SW Juliet Avenue	Port St. Lucie	34986	450	0	0	450	
Village Green Elementary Scho	1	1700 Lennard Road	Port St. Lucie	34952	100	348	8,706	150	220
Weatherbee ES	café	800 E. Weatherbee Rd	Port St. Lucie	34982	576	975	24,385		576
Westwood High School	1	1801 Panther Lane	Ft. Pierce	34947	500	1,733	43,326	500	632
White City Elementary School		905 W 2nd Street	Ft. Pierce	34982	50	0	0	50	
Windmill Point Elementary Scho	1	700 Darwin Boulevard	Port St. Lucie	34983	100	377	9,435	150	220
			TOTALS FOR ST. LUCIE COUNTY		**4,742**	**15,035**	**354,338**	**4,465**	**6,017**

Year 2006	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	15,035	6,436	8,599	354,338	128,720	225,618	SURPLUS

2006 Statewide Emergency Shelter Plan

ST. LUCIE

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
D. McCarty MS	21-café	1201 Mississippi Ft Pierce		34950	**No**	**166**	11,161		**166**
New FY05/06 1508A Bldg					**Yes**	**334**	20,040		**334**
Port St. Lucie Community Center					**yes**	**166**	9,960		166

Year 2006	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	593	73	39,960	35,580	4,380	SURPLUS	

2006 Statewide Emergency Shelter Plan

SUMTER

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Bushnell Community Center		Highway 301& Belt Avenu	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 3	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	125	178	3,059	150	178
North Sumter Primary School	18	104 North Warfield Street	Wildwood	34785	125	0	0	178	
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	200	200	4,000	0	200
Webster Elementary School	14	349 South Market Blvd	Webster	33597	150	0	0	138	
Wildwood Community Center	1	700 Huey Street	Wildwood	34785	150	166	2,490	81	477
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		
TOTALS FOR SUMTER COUNTY					**3,425**	**544**	**9,549**	**3,212**	**855**

Year 2006	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	4084	-3,540	9,549	81,680	-72,131	DEFICIT

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)
No information available							0		**0**
							0		

Year 2006	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	247	-247	0	14,820	-14,820	DEFICIT

SUMTER

2006 Statewide Emergency Shelter Plan

SUWANNEE

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
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	400	0	0		
Branford High School		Governor's Street	Branford	32008	200	0	0		
Church of Jesus Christ of Latter Day Saints		1310 Irvin Avenue SW	Live Oak	32060	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	75	0	0		
North Florida Christian Center		21670 West Shekinah Plac	BObrien	32071	75	0	0		
St. Francis Xavier Church		928 Howard Street East	Live Oak	32060	200	0	0		
St. Luke Episcopal Church		1391 Eleventh Street SW	Live Oak	32060	200	0	0		
San Juan Mission Church		304 Plant Avenue SE	Branford	32008	75	0	0		
Suwannee Elementary School		405 S Walker Street	Live Oak	32060	500	0	0		
Suwannee Elementary School East	361/001	Pinewood Drive	Live Oak	32060	600	0	0		
Suwannee High School West	361/004	Pinewood Drive	Live Oak	32060	300	203	4,067		203
Suwannee High School		500 S Pine Street	Live Oak	32060	1,400	0	0		
Suwannee Middle School		800 S Walker Street	Live Oak	32060	700	0	0		
Suwannee Vocational School		205 Pinewood Way	Live Oak	N/A	400	0	0		
Wellborn Mt. Olive Baptist Church		220 First Avenue	Wellborn	32094	100	0	0		
						0	0		
				TOTALS FOR SUWANNEE COUNTY	**6,800**	**203**	**4,067**	**0**	**203**

Year 2006	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	203	4,647	-4,444	4,067	92,940	-88,873	DEFICIT	

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
Suwannee Primary East	361/004	Pinewood Drive	Live Oak	32060	**no**	**100**	6,000		**100**

2006 Statewide Emergency Shelter Plan

SUWANNEE								
Year 2006	**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	100	26	74	6,000	1,560	4,440	SURPLUS	

2006 Statewide Emergency Shelter Plan

TAYLOR

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

Year 2006	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	2,322	102	37,994	46,440	-8,446	SURPLUS	

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 2006	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	11	-11	0	660	-660	DEFICIT	

2006 Statewide Emergency Shelter Plan

UNION

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Lake BultlerES		800 SW 6th Street	Lake Butler	32054	400	0	0	0	
Union County High School	21	1000 S Lake Avenue	Lake Butler	32054	1,000	169	3,386	0	169
Union County High School	23	850 S Lake Avenue	Lake Butler	32054	200	143	2,854	0	
Union County High School Physical E	24	150 SW 6th Street	Lake Butler	32054	424	0	0	0	
Lake Butler Middle School	3,5,6	120 SW 6th Street	Lake Butler	32054	150	939	23,465	150	424
Lake Butler Middle School Gym		801 S Lake Avenue	Lake Butler	32054	50	0	0	50	
Lake Butler Agricultural Center Building		Hwy 231 South	Lake Butler	32054	30	0	0	0	
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		0	0	75	
						0	0		
UCI-DOC Training Buliding		Hwy 121 South	Worthington	32697	50	0	0	75	
				TOTALS FOR UNION COUNTY	**2,459**	**1,251**	**29,705**	**455**	**593**

Year 2006	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	1,233	18	29,705	24,660	5,045	SURPLUS

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)
Union HS Athletic Bldg	24	150 SW 6th Street	Lake Butler	32054	**Yes**	**45**	2,010		**45**
							0		
							0		
							0		
							0		
							0		

Year 2006	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	45	35	10	2,700	2,100	600	SURPLUS

2006 Statewide Emergency Shelter Plan

VOLUSIA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People *(Meets ARC 4496)*	Total Risk Capacity (ft^2) *(Meets ARC 4496)*	Risk Capacity In People *(Does not Meet ARC 4496 or Not Yet Surveyed)*	Local Planned Usage (reported capacity)
Allen Green Civic Center						600	12,000		600
Atlantic High School	1-Café	1250 Reed Canal	Port Orange	32171	790	0	0	0	
Atlantic High School	3-ESE CR	1250 Reed Canal	Port Orange	32171		0	0		
Atlantic High School	8-Gym	1250 Reed Canal	Port Orange	32171		0	0		
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 Becah Fl	32124			342	6,837	0	300
Campbell Middle School	3-Classroom	625 S. Keech St. Daytona Becah Fl	32124			546	10,910		
Campbell Middle School	4-Classroom	625 S. Keech St. Daytona Becah Fl	32124			504	10,082		
Campbell Middle School	5-ESE CR	625 S. Keech St. Daytona Becah Fl	32124			158	3,159		
Campbell Middle School	6-Classroom	625 S. Keech St. Daytona Becah Fl	32124			430	8,601		
Campbell Middle School	9-Gym	625 S. Keech St. Daytona Becah Fl	32124			394	7,882		
Creekside Middle School	3	6801 Airport Road	Port Orange	32171		0	0		
Creekside Middle School	4	6801 Airport Road	Port Orange	32171		0	0		
Creekside Middle School	6	6801 Airport Road	Port Orange	32171		0	0		
Creekside Middle School	2-Café	6801 Airport Road	Port Orange	32171	336	0	0		
Creekside Middle School	9-Gym	6801 Airport Road	Port Orange	32171		0	0		
Daytona Beach Community College East	16	1200 West Intl Speedway	Daytona Beach	32114	322	322	6,440	0	322
Daytona Beach Community College West	5	1155 County Road 4139	DeLand	32724	145	145	2,900	0	145
DeBary Elementary School	1	88 W Highbanks Road	DeBary	32713	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		
DeLand High School	1	800 N. Hill Ave DeLand	DeLand	32724		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		
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		
DeLand High School	15	800 N. Hill Ave DeLand	DeLand	32724		369	7,386		
DeLand High School	17	800 N. Hill Ave DeLand	DeLand	32724		0	0		
DeLand High School (2005)	39	800 N. Hill Ave DeLand	DeLand	32724		228	4,555		800
DeLand High School	1a	800 N. Hill Ave DeLand	DeLand	32724	800	800	12,895		628
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		
Deltona High School	15-gym	100 Wolf Pack Run	Deltona	32725		800	14,576		800
Deltona High School	16-ese	100 Wolf Pack Run	Deltona	32725		0	0		
Deltona High School	27	3233 Howland Blvd	Deltona	32725		191	3,824		
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	3	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		
Elementary "X"	1	734 W. Ohio Avenue	Orange City	32763		0	0		300
Elementary "X"	2	734 W. Ohio Avenue	Orange City	32763		254	5,073		
Elementary "X"	3	734 W. Ohio Avenue	Orange City	32763		481	9,610		
Elementary "X"	4	734 W. Ohio Avenue	Orange City	32763		417	8,344		
Elementary "W:						300	6,000		300
Forest Lake Elementary School	2	1600 Doyle Road	Deltona	32725	250	250	5,097	0	250
Forest Lake Elementary School	3	1600 Doyle Road	Deltona	32725		0	0		

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VOLUSIA									
Forest Lake Elementary School	4	1600 Doyle Road	Deltona	32725		0	0		
Forest Lake Elementary School	5-café	1600 Doyle Road	Deltona	32725		0	0		
Freedom Elementray School	3	1395 South Blue Lake	DeLand	32724		0	0		397
Freedom Elementray School	4	1395 South Blue Lake	DeLand	32724		0	0		
Freedom Elementray School	2-café	1395 South Blue Lake	DeLand	32724	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	2746 Fulford Street	Deltona	32725		0	0		
Galaxy Middle School	2-Café	2400 Eustace Avenue	Deltona	32725	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	794	0	0		397
Heritage Middle School	4-cr	1001 Parnell Court	Deltona	32725		0	0		
Heritage Middle School	6-cr	1001 Parnell Court	Deltona	32725		0	0		
Heritage Middle School	9-gym	1001 Parnell Court	Deltona	32725		0	0		
Hinson Middle School	3	1860 N. Clyde Morris Blvd Ormond Beach Fl 32174		32174		546	10,910		300
Hinson Middle School	4	1860 N. Clyde Morris Blvd Ormond Beach Fl 32174		32174		504	10,082		
Hinson Middle School	5	1860 N. Clyde Morris Blvd Ormond Beach Fl 32174		32174		158	3,159		
Hinson Middle School	6	1860 N. Clyde Morris Blvd Ormond Beach Fl 32174		32174		430	8,601		
Hinson Middle School	9	1860 N. Clyde Morris Blvd Ormond Beach Fl 32174		32174		394	7,882		
Hinson Middle School	2-café	1860 N. Clyde Morris Blvd Ormond Beach Fl 32174		32174	300	353	7,051	0	
Horizon Elementary School	7-café	4751 Hidden Lake Drive	Port Orange	32127	208	0	0	0	208
James Park Youth Action Center	main	1700 James Street	South Daytona	32111	80	80	1,600	0	80
Mainland HS (EHPA)	2,5,9	Clyde Morrids Blvd	Daytona Beach	32124		500	10,000		500
New Smyrna Beach HS	Gym	10th St	New Smyrna	32169		500	10,000		500
Palm Terrace Elementary School	1-entire	1825 Dunn Avenue	Daytona Beach	32124	536	268	42,915		268
Pathways Elementary School	2-cr	2100 Airport Road	Ormond Beach	32714	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		0	0		
Piggotte Center		504 Big Tree Road	South Daytona	32111	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	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		0	0		
Port Orange YMCA	4701-Day	4701 City Center Pkwy	Port Orange	32127		125	2,500	0	125
Port Orange YMCA	4701-PE	4701 City Center Pkwy	Port Orange	32127	325	200	4,000	0	200
Seab reeze HS	1	2700 N. Oleander ave	Daytona Beach	32118		0	0		
Seab reeze HS	13	2700 N. Oleander ave	Daytona Beach	32118		0	0		
Seab reeze HS	14	2700 N. Oleander ave	Daytona Beach	32118		0	0		
Seab reeze HS	15	2700 N. Oleander ave	Daytona Beach	32118		0	0		
Southwestern MS						535	10,702		
Spirit Elementary	2	1500 Meadowlark Dr	Deltona	32728		254	5,073		300
Spirit Elementary	1	1500 Meadowlark Dr	Deltona	32728		276	5,521		
Spirit Elementary	3	1500 Meadowlark Dr	Deltona	32728		481	9,610		
Spirit Elementary	4	1500 Meadowlark Dr	Deltona	32728		417	8,349		
Sunrise Elementary School	2-cr	3155 Phonetia Drive	Deltona	32725	300	300	7,283	255	300
Sunrise Elementary School	3-cr	3155 Phonetia Drive	Deltona	32725		0	0		
Sunrise Elementary School	4-café	3155 Phonetia Drive	Deltona	32725		0	0		
Sweetwater Elementary School	2-cr	5800 Victoria Gardens	Port Orange	32127	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		

2006 Statewide Emergency Shelter Plan

VOLUSIA

T.D. Taylor MS	2-classroom					228	4,555		
T.D. Taylor MS	7-Gym					535	10,702		
Taylor MS/HS	1,3,5,7	SR 17	Pierson	32180		1,200	24,000		1,200
Timbercrest Elementary School	1-library	2401 Eustace Avenue	Deltona	32725	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		0	0		
Volusia county Fairground	Tommy Lawr	3150 E. NY Ave	Deland	32724	250	500	10,000	250	500
Volusia Pines Elementray School	2-cr	500 Kicklighter Road	Lake Helen	32744	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		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		
						0	0		
						0	0		
					TOTALS FOR VOLUSIA COUNTY	**11,063**	**21,145**	**453,663**	**5,059**	**14,076**

Year 2006	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	21,145	30,669	-9,524	453,663	613,380	-159,717	DEFICIT

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)	
Creekside MS	2-Café	6801 Airport Road	Port Orange	32171	**No**	162	7279		**264**
Galaxy MS	2-Café	2400 Eustace Avenue	Deltona	32725	**No**	147	6608		**429**
Atlantic HS	3-ESE CR	1250 Reed Canal	Port Orange	32171	**No**	161	7251		282
Heritage MS	2-café	1001 Parnell Court	Deltona	32725	**No**	143	6449		264
Freedom ES	2-café	1395 South Blue Lake	DeLand	32724	**No**	64	3820		84
Freedom ES	3-classroom	1395 South Blue Lake	DeLand	32724	**No**	158	9494		
Freedom ES	4-classroom	1395 South Blue Lake	DeLand	32724	**No**	126	7570		
Horizon ES	7-café	4751 Hidden Lake Drive	Port Orange	32127	**No**	73	4353		84

Year 2006	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	1,034.00	601	433	62,040	36,060	25,980	SURPLUS

Appendix B:
§423.25 Public Shelter Design Criteria

§423.25 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 core facility 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 EHPA 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 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 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 7-98, "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 12-99. Based on a research document, "Emergency Shelter Design Criteria for Educational Facilities," 1993, 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 forty (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 12-99.

§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, 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 pre-cast 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 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 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 without windows shall have mechanical ventilation systems.

§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 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 Emergency Power System. The EHPA shall be provided with an emergency electrical power system which shall have an outlet for coupling a backup portable generator. Emergency power, per NFPA 70, Article 700, shall be provided for operation of emergency lights, exit signs, and fire alarm systems in the EHPA. 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. Where economically feasible, an equivalent photovoltaic system may be provided. When generators are installed, the facility shall include an enclosed area designed to protect the generators from winds and missile impact. Air intakes and exhausts shall be designed and installed to meet the wind load and missile impact criteria.

§423.25.5.1 EHPA Lighting. Standby lighting within the EHPAs, toilet rooms, and generator spaces should provide at least 10 footcandles of general illumination which can be reduced to 1/2 footcandle in the sleeping areas during the night.

§423.25.5.2 Standby Circuits. Selected ventilation fans, intercom system, and other standby circuits shall be connected to the standby power system per NFPA 70, Article 702 (optional standby circuits). The fire alarm, emergency lighting, and exit signs throughout the entire campus shall remain operational and shall receive first priority to the power provided by the facility's emergency power system per Article 700 of NFPA 70.

§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), F.S., and shall comply with Sections 553.79(5), 553.79(7), and 553.79(8), F.S.

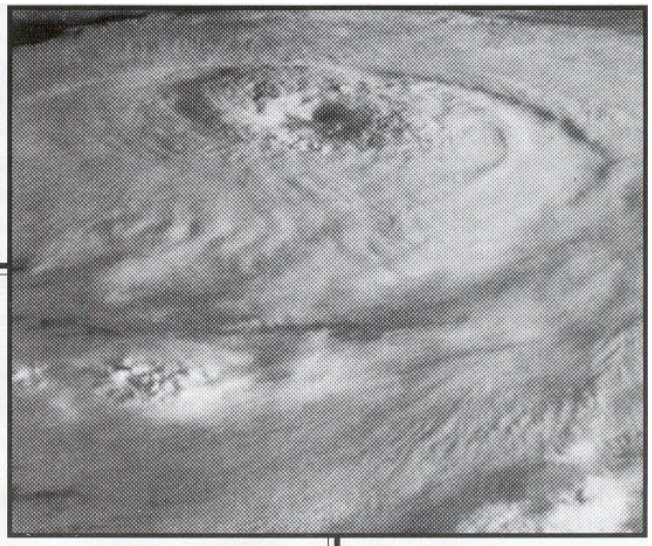
§423.25.6.1 Construction of EHPAs shall be inspected during the construction process by certified building code inspectors or the design architect/engineer(s) certified pursuant to Part XII Chapter 468 F.S. and threshold inspectors for compliance with applicable rules and laws.

§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 F.S. skilled in electrical design.

§423.25.6.3 EHPAs shall be inspected and recertified, for compliance with the structural requirements of this section, every 5 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

American Red Cross

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

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

DCA – Department of Community Affairs

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

FEMA – Federal Emergency Management Agency

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

FIRM – Flood Insurance Rate Map

Acronyms (Continued)

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*

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.

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 destructon 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 Department 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 Department, 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://floridadisaster.org/bpr/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.

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

Department 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 the Florida Keys, 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 level, and is consistent with the Department of Energy's DOE-STD-1020 hurricane wind Performance Category (PC) 3 criteria. 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://floridadisaster.org/bpr/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 140 miles per hour on the 3-second gust scale when the 1-minute sustained scale reads 111 miles per hour.

TABLE G-1. Equivalent Basic Wind Speeds
Wind Speed Conversion
3-second gust, fastest-mile and 1-minute sustained velocities (mph)

Wind Measurement Method	**Saffir-Simpson Hurricane Intensity Scale**					
	Category 1	**Category 2**	**Category 3**	**Category 4**	**Category 5**	**Extreme Category 5**
3-second Gust (ASCE 7 and 2004 Florida Building Code)	90	120	140	165	195	250
Fastest-Mile (Standard Building Code)	75	100	120	140	170	225
1-minute Sustained (National Hurricane Center)	74	96	111	131	156	200

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 region 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 Department strongly recommends use of the 40 mile per hour increase in design wind speed for buildings that possess these characteristics.

The Department 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. Strong 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 the Federal Emergency Management Agency's (FEMA) publication *Design and Construction Guidance for Community Shelters* (FEMA 361), the Department recommends use of exposure C when calculating design wind load. FEMA 361 can be viewed at the following web address:

http://www.fema.gov/fima/fema361.shtm

The EHPA code recommended 40 mile per hour increase in design wind speed is not intended to achieve a "near-absolute" level of protection for building occupants. However, it does provide an "enhanced" (or intermediate) level of protection above minimum ASCE 7 design requirements. DOE-STD-1020's hurricane wind performance category PC-4 and FEMA 361 may be more representative of a near-absolute level of protection from severe hurricane wind effects.

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 be certified to the wind load requirements.

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 Department 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 prescripted 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.firn.edu/doe/edfacil/pdf/roofdecks.pdf

The Department 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 building's structural envelope. Also, intrusion of heavy debris through the building envelope can present a hazard to building occupants.

For unusual windborne debris hazard exposure, the Department, 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 85 miles per hour. This is about a

245 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.

Table G-2. Summary of Wind Storm Design Criteria
Crosswalk of ASCE 7, EHPA, DOE-STD-1020 and FEMA 361 Performance Criteria

Performance Category	X	0	1	2	3	4
Wind Hazard Return Period (yrs)	< 100	# 100	∃ 100	∃ 200	∃ 1,000	∃ 10,000
Design Wind Speed	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 ~80 mph
Design Wind Speed, V (mph), 3-second gust	< 90	100∀	100 -150	100-150 (tornado @ 150)	140-190 (tornado @ 160+)	180-230 (tornado @ 200+)
Importance Factor, I	< 1.00	# 1.00	1.00	1.15	1.00	1.00
Exposure Category	N/A	N/A	Code	ASCE 7 (Exposure C recommended)	ASCE 7 (Exposure C recommended)	C
Directionality Factor, Kd	N/A	N/A	Code	ASCE 7 (0.85)	1.00	1.00
Internal Pressure Coefficient, GCpi	N/A	N/A	Code	ASCE 7 (hurr. @ ∀0.18, or tornado @ ∀0.55)	ASCE 7 (hurr. @ ∀0.18, or tornado @ ∀0.55)	ASCE 7 (hurr. @ ∀0.18, or tornado @ ∀0.55)
Load Combinations	N/A	N/A	Code	ASCE 7	ASCE 7	ASCE 7**
Hurricane Windborne Debris Impact Criteria	N/A	Equivalent to 7/16" plywood; max. height 30* ft.	2x4 timber plank, 9 lb @ 34 mph; max. height 60* ft.	2x4 timber plank, 9 lb @ 50 mph; max. height 60* ft.	2x4 timber plank, 9 lb @ 75 mph; max. height 60* ft	2x4 timber plank, 9 lb @ 90 mph; max. height 60* ft
Tornado Windborne Debris Impact Criteria	N/A	N/A	N/A	2x4 timber plank, 15 lb @ 80 mph; max. height 150* ft.	2x4 timber plank, 15 lb @ 100 mph; max. height 150* ft.	2x4 timber plank, 15 lb @ 100 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 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 preliminary data under consideration by a committee of the International Code Council (ICC) for development of a storm shelter standard. As an example, the ICC committee is

considering use of 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. The hurricane performance criteria illustrated in Table G-2 may differ from those eventually published by the ICC.

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 habitable 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 1.30. 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 Department'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 windowpane. 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 also required to have additional emergency overflow scuppers that can accommodate a two (2) inch per hour rainfall rate. This is intended to provide an increased roof drainage capacity equivalent to Figure 1106.1, FBC—Plumbing plus two inches (i.e., a minimum roof rainfall drainage discharge rate of about six and a third (6 1/3) to seven (7) inches per hour.) The designer may also want to consider even higher exceptional one-hour rainfall rates that can exceed eight (8) inches per hour.

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 Department. 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 Department 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 Department 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

During slow-moving large "wet" hurricanes, a 10 to 15 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 and reservoir containment failure may have on an occupied EHPA.

An essential performance requirement of a hurricane shelter is that it not be inundated by rainfall flooding. For design purposes, the Department recommends that the EHPA's civil designer base the site drainage design on the assumption of pre-hurricane saturated soil conditions with a subsequent hurricane-caused single-day rainfall event equal to at least three (3) times the 100-year, 1-hour rainfall rate established in Figure 1106.1, FBC—Plumbing, and preferably four (4) times the rainfall rate of Figure 1106.1, FBC—Plumbing. That is, for a design rate of three-times Figure 1106.1, FBC—Plumbing, a design single-day rainfall event in south Florida and the panhandle area is 13.5 to 15 inches and about 13 inches in north central Florida. As an example, Polk County is located about two-thirds (2/3) of the distance between the 5.0 and 4.5 inch per hour rainfall contours of Figure 1106.1, so its normal design requirement is about 4.7 inches. Therefore, the Department's minimum recommended design single-day rainfall rate is 4.7 inches multiplied by three, or 14.1 inches.

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 Department may adjust the list of excluded/included spaces or the formula for calculation of design capacity.

To be consistent with the Department'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:

(Gross Floor Area, sq.ft. - ∑ Excluded Floor Areas, sq.ft.) / 20 = Occupant Capacity

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

∑ (Included Gross Floor Areas, sq.ft. x RF) / 20 = 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 Department recommends that the minimum potable water requirement be one-third of the ARC's daily requirement, or 1.67 gallons (0.223 cubic feet) per person for all uses. A minimum of one quart 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 (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.)

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 Department 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 Department 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 Department 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 Department 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 Department 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 Department 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 Department 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 Department 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.

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	K-3 Special Class	418	38	0.50
00002	Kindergarten Class	608	38	0.50
00003	Primary Class	608	38	0.50
00004	Intermediate Class	608	32	0.65
00005	Elementary Resource	416	32	0.65
00007	Elementary Foreign Language Lab	608	32	0.65
00008	Elementary Math Skills Lab	608	32	0.65
00009	Elementary Social Studies Lab	608	32	0.65
00010	Elementary Language Arts Lab	608	32	0.65
00011	Elementary Art Lab	592	37	0.50
00015	Elementary Open Plan Area	1,920	32	0.65
00020	Middle/Jr High Class	600	30	0.65
00021	Middle/Jr High Resource	416	32	0.65
00023	Middle/Jr High Foreign Lang. Lab	608	32	0.65
00024	Middle/Jr High Math Skills Lab	608	32	0.65
00025	Middle/Jr High Social Studies Lab	608	32	0.65
00026	Middle/Jr High Lang. Arts Lab	608	32	0.65
00029	Middle/Jr High Art Lab	630	42	0.50
00031	Middle/Jr High Open Plan Area	1,800	30	0.65
00035	Sr High Class	513	27	0.65
00036	Sr. High Resource	416	32	0.65
00038	Sr High Foreign Lang. Lab	512	32	0.65
00039	Sr High Math Skills Lab	512	32	0.65
00040	Sr High Social Studies Lab	512	32	0.65
00041	Sr High Lang. Arts Lab	512	32	0.65
00047	Sr High Art Lab	530	53	0.50
00050	Sr High Open Plan Area	1,620	35	0.65
00060	ESE Special Class (Part Time)	650	65	0.50
00061	ESE Special Class (Self Contained)	665	95	0.50
00062	ESE Vocational	665	95	0.50
00063	ESE Physical Therapy Lab	600	95	0.50
00064	ESE Resource	768	96	0.50
00075	Middle-Sr High Vocal Music Class	513	57	0.65
00076	Middle-Sr High Band Class	1,200	35	0.65
00077	Middle-Sr High Orchestra Class	513	57	0.65
00078	Middle-Sr High Gen. Music Class	518	37	0.65

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
00079	Middle-Sr High Guitar Lab	518	37	0.65
00110	Middle-Sr High PE Multipurpose	800	0	0.85
00111	Jr High Gymnasium	N/A	N/A	0.85
00112	Sr High Gymnasium	N/A	N/A	0.85
00113	Gymnasium Seating	N/A	N/A	0.85
00118	PE Wrestling Room	402	N/A	0.85
00119	PE Gymnastics and Dance	420	N/A	0.85
00340	Dining Area	N/A	N/A	0.65
00360	Auditorium	N/A	N/A	0.50
00361	Multipurpose Room (Dining)	N/A	N/A	0.65
00363	Stage	N/A	N/A	0.65
00370	Lobby	N/A	N/A	0.85
00700	Inside Circulation	N/A	N/A	0.85
00840	Vocational Related Classroom	416	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

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October 31, 2001

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."

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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

The 2001 Florida Statutes

Title XVI Education | Chapter 235 Educational Facilities | View Entire Chapter

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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Appendix J:
Category 5 – Shelter Demand Study Table

County	Region	Hurricane Evacuation Shelter Demand Data Source	Hurricane Evacuation Study, Year of Publication	2006 Total Gen. Pop. (from 2004 BEBR)	2006 Average Annual Pop. Growth	2006 Cat. 5 Vulnerable Gen. Pop.	2006 Estimated Total Pop. Hurr. Shelter Demand	Maximum PSN Daily Census Pop. During 2004 Hurr. Season	Maximum PSN Daily Census Pop. During 2005 Hurr. Season	2006 Number of Registered Clients, Nov. 2005	County Estimate of PSN client demand, Apr. 2005	35 Percent of Registered Clients, Nov. 2005	3.0 Percent of 2006 Gen. Pop. Demand (for comparison purposes only)	2006 Gen. Pop. Age 65 and Older	2006 Percent of Gen. Pop. Age 65 and Older	Avg. Annual 65 and Older Pop. Growth Rate	2006 Estimated PSN Pop. Hurr. Shelter Demand	2011 Total Gen. Pop.	2011 Cat. 5 Vulnerable Gen. Pop.	2011 Total Pop. Hurr. Shelter Demand	2011 Estimated PSN Pop. Hurr. Shelter Demand, age 65+ growth rate
Alachua	3	Cedar Key Basin HES, pg 3-5	1996	244,425	0.015	30,872	9,903	205	0	719	200	252	297	24,383	0.100	0.045	252	263,210	33,245	10,664	309
Baker	4	Northeast FL HES, pgs T-20-21	1998	24,748	0.016	11,008	2,190	25	0	50	0	18	66	2,616	0.106	0.063	25	26,731	11,890	2,365	33
Bay	1	Northwest FL HES, pgs 3-10	2000	162,865	0.013	192,943	16,444	401	87	2,178	500	762	493	24,239	0.149	0.048	762	173,787	205,881	17,547	944
Bradford	3	Cedar Key Basin HES, pg 3-5	1996	28,353	0.010	7,870	2,125	30	0	125	36	44	64	3,803	0.134	0.032	44	29,750	8,258	2,230	51
Brevard	6	East Central FL HES, pg 20	2000	539,993	0.017	257,404	18,736	393	217	2,202	1,200	771	562	111,905	0.207	0.037	1,200	585,917	279,295	20,329	1,422
Broward	11	2004 Abbreviated Transportation Model - PBS&J	2001	1,788,597	0.018	442,972	31,464	0	206	756	225	265	944	268,247	0.150	0.024	265	1,949,031	482,706	34,286	297
Calhoun	2	Apalachee Bay HES, pg 3-5	1997	13,838	0.009	3,901	1,395	25	15	153	55	54	42	2,093	0.151	0.030	55	14,488	4,084	1,461	63
Charlotte	9	Southwest FL HES, pg II-A-16	2001	163,920	0.021	207,113	46,909	0	0	582	100	204	1,407	55,954	0.341	0.027	204	180,964	228,649	51,787	231
Citrus	5	Withlacoochee HES Trans Anal pg 3-6	2004	134,337	0.019	77,048	5,937	39	0	190	300	67	178	43,271	0.322	0.030	300	147,155	84,400	6,504	345
Clay	4	Northeast FL HES, pgs T-20-21	1998	173,196	0.028	78,756	10,884	45	0	450	110	158	327	19,064	0.110	0.075	158	197,180	89,662	12,391	217
Collier	9	Southwest FL HES, pg II-C-9	2001	331,037	0.037	384,977	50,270	95	237	1,526	300	534	1,508	79,957	0.242	0.055	534	392,498	456,453	59,603	680
Columbia	3	Cedar Key Basin HES, pg 3-5	1996	63,223	0.021	22,013	5,943	0	0	125	26	44	178	9,761	0.154	0.052	44	69,804	24,304	6,562	55
DeSoto	7	Central FL HES, pg 11	1995	35,626	0.024	20,183	6,749	28	64	131	120	46	202	6,766	0.190	0.031	120	39,861	22,582	7,551	139
Dixie	3	Cedar Key Basin HES, pg 3-5	1996	15,776	0.019	20,103	2,872	13	0	100	90	35	86	3,064	0.194	0.050	90	17,259	21,992	3,142	112
Duval	4	Northeast FL HES, pgs T-20-21	1998	866,271	0.015	319,909	33,667	315	0	1,417	350	496	1,010	94,869	0.110	0.043	496	929,938	343,421	36,141	604
Escambia	1	Northwest FL HES, pgs 3-10	2000	313,302	0.009	114,223	17,650	500	145	87	525	30	530	44,923	0.143	0.032	525	328,168	119,643	18,487	610
Flagler	4	Northeast FL HES, pgs T-20-21	1998	77,257	0.049	94,686	7,316	176	0	475	120	166	219	21,908	0.284	0.069	176	96,024	117,686	9,093	237
Franklin	2	Apalachee Bay HES, Trans Anal. pg 3-5	2004	11,188	0.031	17,044	1,021	0	0	28	0	10	31	2,279	0.204	0.045	10	12,930	19,697	1,180	12
Gadsden	2	Apalachee Bay HES, Trans Anal. pg 3-7	2004	47,583	0.006	17,911	3,045	13	0	225	63	79	91	6,237	0.131	0.035	79	49,071	18,471	3,140	93
Gilchrist	3	Cedar Key Basin HES, pg 3-5	1996	16,858	0.026	8,177	2,208	35	0	40	12	14	66	2,668	0.158	0.068	35	19,049	9,239	2,495	47
Glades	9	Southwest FL HES, pg II-F-18	2001	11,077	0.013	18,533	3,330	4	9	15	10	5	100	2,119	0.191	0.027	10	11,791	19,728	3,545	11
Gulf	2	Apalachee Bay HES, Trans Anal. pg 3-5	2004	16,503	0.009	17,432	906	0	4	827	195	289	27	2,736	0.166	0.039	289	17,268	18,240	948	345
Hamilton	3	Cedar Key Basin HES, pg 3-5	1996	14,514	0.007	5,586	1,508	0	0	73	10	26	45	1,772	0.122	0.040	26	15,028	5,784	1,561	31
Hardee	7	Central FL HES, pg 11	1995	28,486	0.011	16,695	10,189	0	14	97	65	34	306	4,076	0.143	0.018	65	30,068	17,622	10,755	71
Hendry	9	Southwest FL HES, pg II-E-16	2001	40,010	0.020	19,576	4,754	0	20	33	16	12	143	4,298	0.107	0.033	20	44,049	21,552	5,234	23
Hernando	5	Withlacoochee HES Trans Anal pg 3-7	2004	151,675	0.021	74,398	16,516	12	0	825	200	289	495	44,730	0.295	0.028	289	167,635	82,227	18,254	329
Highlands	7	Central FL HES, pg 11	1995	95,197	0.016	42,158	23,209	138	91	186	150	65	696	31,005	0.326	0.020	150	102,932	45,583	25,095	165
Hillsborough	8	Tampa Bay HES, pg 7	2000	1,154,969	0.020	533,565	122,127	165	0	2,610	0	914	3,664	140,689	0.122	0.042	914	1,269,831	586,628	134,273	1,107
Holmes	1	Northwest FL HES, pgs 3-10	2000	19,275	0.008	5,708	1,461	20	4	37	12	13	44	3,172	0.165	0.031	20	20,006	5,925	1,516	23
Indian River*	10	Treasure Coast HES Trans Anal, pg 3-5	2003	132,931	0.023	71,223	5,324	449	130	474	449	166	477	37,170	0.280	0.031	449	148,003	79,298	5,928	519
Jackson	2	Apalachee Bay HES, pg 3-5	1997	49,588	0.007	11,639	3,989	42	21	712	33	249	120	7,842	0.158	0.038	249	51,399	12,064	4,135	297
Jefferson	2	Apalachee Bay HES, Trans Anal. pg 3-6	2004	14,201	0.007	7,220	1,053	0	0	50	6	18	32	2,088	0.147	0.037	18	14,695	7,471	1,090	21
Lafayette	3	Cedar Key Basin HES, pg 3-5	1996	7,697	0.011	3,469	937	0	0	10	5	4	28	1,047	0.136	0.036	5	8,103	3,652	986	6

County	Region	Hurricane Evacuation Shelter Demand Data Source	Hurricane Evacuation Study, Year of Publication	2006 Total Gen. Pop. (from 2004 BEBR)	2006 Average Annual Pop. Growth	2006 Cat. 5 Vulnerable Gen. Pop.	2006 Estimated Total Pop. Hurr. Shelter Demand	Maximum PSN Daily Census Pop. During 2004 Hurr. Season	Maximum PSN Daily Census Pop. During 2005 Hurr. Season	2006 Number of Registered Clients, Nov. 2005	County Estimate of PSN client demand, Apr. 2005	35 Percent of Registered Clients, Nov. 2005	3.0 Percent of 2006 Gen. Pop. Demand (for comparison purposes only)	2006 Gen. Pop. Age 65 and Older	2006 Percent of Gen. Pop. Age 65 and Older	Avg. Annual 65 and Older Pop. Growth Rate	2006 Estimated PSN Pop. Hurr. Shelter Demand	2011 Total Gen. Pop.	2011 Cat. 5 Vulnerable Gen. Pop.	2011 Total Pop. Hurr. Shelter Demand	2011 Estimated PSN Pop. Hurr. Shelter Demand, age 65+ growth rate
Lake	6	East Central FL HES, pg 20	2000	269,077	0.032	116,229	17,384	211	153	673	360	236	522	69,285	0.257	0.048	360	311,575	134,586	20,130	447
Lee	9	Southwest FL HES, pg II-B-9	2001	553,349	0.029	555,133	109,157	75	182	953	388	334	3,275	137,193	0.248	0.042	388	632,839	634,879	124,838	470
Leon	2	Apalachee Bay HES, Trans Anal. pg 3-7	2004	271,966	0.015	52,574	9,312	9	0	243	20	85	279	23,395	0.086	0.050	85	292,401	56,524	10,012	106
Levy	5	Withlacoochee HES Trans Anal pg 3-5	2004	39,140	0.021	29,400	2,832	50	0	47	20	16	85	7,487	0.191	0.045	50	43,242	32,482	3,129	61
Liberty	2	Apalachee Bay HES, Trans Anal. pg 3-7	2004	7,485	0.010	5,382	915	0	0	20	20	7	27	835	0.112	0.035	20	7,842	5,639	959	24
Madison	3	Cedar Key Basin HES, pg 3-5	1996	19,836	0.008	6,290	1,698	5	0	175	7	61	51	3,067	0.155	0.025	61	20,591	6,530	1,763	68
Manatee	8	Tampa Bay HES, pg 7	2000	308,789	0.022	179,012	33,428	221	13	557	430	195	1,003	71,425	0.231	0.025	430	342,089	198,317	37,033	484
Marion	5	Withlacoochee HES Trans Anal pg 3-8	2004	308,952	0.025	101,618	14,241	290	0	1,265	500	443	427	75,929	0.246	0.038	500	347,408	114,267	16,014	594
Martin	10	Treasure Coast HES Trans Anal., pg 3-6	2003	143,037	0.019	106,344	8,679	147	115	280	240	98	260	40,153	0.281	0.034	240	156,525	116,372	9,497	280
Miami-Dade	11	2004 Abbreviated Transportation Model - PBS&J	2003	2,445,431	0.013	668,826	58,629	13	89	1,200	500	420	1,759	336,072	0.137	0.026	500	2,606,362	712,841	62,487	565
Monroe	11	FL Keys HES, pg 14	2001	81,629	0.002	98,269	17,602	0	75	383	500	134	528	13,799	0.169	0.046	500	82,596	99,433	17,811	614
Nassau	4	Northeast FL HES, pgs T-20-21	1998	68,583	0.026	64,668	5,252	75	0	199	0	70	158	10,078	0.147	0.081	75	77,367	72,951	5,925	105
Okaloosa	1	Northwest FL HES, pgs 3-10	2000	192,605	0.017	135,625	14,420	20	63	1,008	37	353	433	26,132	0.136	0.051	353	209,282	147,368	15,669	443
Okeechobee	7	Central FL HES, pg 11	1995	38,927	0.011	28,802	19,821	80	61	146	125	51	595	6,641	0.171	0.020	125	41,079	30,395	20,917	137
Orange	6	East Central FL HES, pg 20	2000	1,070,305	0.026	98,335	14,713	118	0	1,940	178	679	441	102,454	0.096	0.042	679	1,209,223	111,098	16,623	822
Osceola	6	East Central FL HES, pg 20	2000	246,389	0.041	72,036	10,798	227	0	901	320	315	324	26,477	0.107	0.068	320	297,501	86,980	13,038	429
Palm Beach	10	Treasure Coast HES Trans Anal, pg 3-6	2003	1,299,002	0.021	465,199	44,541	69	291	800	250	280	1,336	286,243	0.220	0.029	291	1,438,543	515,171	49,326	334
Pasco	8	Tampa Bay HES, pg 7	2000	408,283	0.022	258,792	54,007	577	0	2,237	0	783	1,620	99,359	0.243	0.025	783	454,086	287,824	60,066	882
Pinellas	8	Tampa Bay HES, pg 7	2000	955,877	0.006	623,242	123,144	686	48	2,000	500	700	3,694	207,938	0.218	0.013	700	986,066	642,925	127,033	746
Polk	7	Central FL HES, pg 11	1995	548,100	0.018	89,016	43,198	368	48	3,177	500	1,112	1,296	101,244	0.185	0.032	1,112	596,476	96,873	47,011	1,287
Putnam	4	Northeast FL HES, pgs T-20-21	1998	74,432	0.008	57,483	9,634	95	0	100	0	35	289	14,179	0.190	0.022	95	77,406	59,779	10,019	105
St. Johns	1	Northeast FL HES, pgs T-20-21	1998	160,768	0.035	194,586	10,523	148	0	500	650	175	316	25,142	0.156	0.064	650	189,024	228,785	12,372	858
St. Lucie*	9	Treasure Coast HES Trans Anal, pg 3-5	2003	238,900	0.026	83,950	7,029	593	114	313	500	110	640	53,539	0.224	0.040	593	270,405	95,021	7,956	710
Santa Rosa	6	Northwest FL HES, pgs 3-10	2000	141,554	0.028	76,965	9,371	121	57	116	150	41	281	17,017	0.120	0.063	150	161,156	87,623	10,669	197
Sarasota	4	Southwest FL HES, pg II-D-14	2001	371,637	0.018	253,151	63,549	96	231	1,775	1,400	621	1,906	115,552	0.311	0.030	1,400	404,483	275,525	69,165	1,609
Seminole	10	East Central FL HES, pg 20	2000	421,000	0.021	23,474	3,486	64	0	200	125	70	105	45,598	0.108	0.051	125	464,268	25,887	3,844	157
Sumter	5	Withlacoochee HES Trans Anal pg 3-9	2004	71,924	0.036	30,442	4,331	71	0	223	247	78	130	21,810	0.303	0.057	247	84,839	35,908	5,109	317
Suwannee	3	Cedar Key Basin HES, pg 3-5	1996	39,591	0.026	17,306	4,673	10	0	75	14	26	140	7,443	0.188	0.044	26	44,666	19,524	5,272	32
Taylor	3	Cedar Key Basin HES, pg 3-5	1996	21,408	0.011	13,427	2,333	0	0	32	0	11	70	3,115	0.146	0.037	11	22,626	14,191	2,466	13
Union	3	Cedar Key Basin HES, pg 3-5	1996	15,080	0.013	17,450	1,268	27	0	100	0	35	38	1,234	0.082	0.056	35	16,072	18,597	1,351	45
Volusia	6	East Central FL HES, pg 20	2000	502,073	0.017	309,777	31,270	601	0	924	570	323	938	108,978	0.217	0.029	601	545,891	336,813	33,999	687
Wakulla	2	Apalachee Bay HES, Trans Anal. pg 3-6	2004	27,463	0.036	33,927	1,123	0	0	52	30	18	34	3,283	0.120	0.089	30	32,371	39,990	1,324	43
Walton	1	Northwest FL HES, pgs 3-10	2000	54,374	0.036	60,212	4,733	40	38	79	50	28	142	9,665	0.178	0.071	50	64,137	71,023	5,583	68

County	Region	Hurricane Evacuation Shelter Demand Data Source	Hurricane Evacuation Study, Year of Publication	2006 Total Gen. Pop. (from 2004 BEBR)	2006 Average Annual Pop. Growth	2006 Cat. 5 Vulnerable Gen. Pop.	2006 Estimated Total Pop. Hurr. Shelter Demand	Maximum PSN Daily Census Pop. During 2004 Hurr. Season	Maximum PSN Daily Census Pop. During 2005 Hurr. Season	2006 Number of Registered Clients, Nov. 2005	County Estimate of PSN client demand, Apr. 2005	35 Percent of Registered Clients, Nov. 2005	3.0 Percent of 2006 Gen. Pop. Demand (for comparison purposes only)	2006 Gen. Pop. Age 65 and Older	2006 Percent of Gen. Pop. Age 65 and Older	Avg. Annual 65 and Older Pop. Growth Rate	2006 Estimated PSN Pop. Hurr. Shelter Demand	2011 Total Gen. Pop.	2011 Cat. 5 Vulnerable Gen. Pop.	2011 Total Pop. Hurr. Shelter Demand	2011 Estimated PSN Pop. Hurr. Shelter Demand, age 65+ growth rate
Washington	1	Northwest FL HES, pgs 3-10	2000	23,364	0.023	6,525	1,635	8	0	392	212	137	49	3,752	0.161	0.039	212	26,046	7,274	1,823	254
Florida				18,228,849	0.019	8,089,782	**1,230,760**	8,283	2,842	40,593	14,326	14,210	36,923	3,186,266	0.175	0.034	**19,675**	19,980,102	8,906,725	**1,350,506**	**23,445**

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.

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 or inadequately 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. Current research being 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 fifteen pound sawn lumber 2x4 (15 lb 2x4). For those proposed EHPA's that may be subjected to an unusual barrage of heavy debris (e.g., building materials and mechanical equipment) the Division recommends increasing the large missile requirement to a 15 lb 2x4.

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^2) x missile velocity (ft/sec) = momentum (lb-sec). It should be noted that Tables K-1 and K-2 provide impact energy equivalent values as well as momentum 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 x 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 50 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 130 to 160 mph (3-second gust), which is consistent with the EHPA criteria's recommended addition of the 40 mph for EHPA's proposed to be located in ASTM E-1996's Wind Zones 1 and 2 (i.e., basic wind speeds < 130 mph). ASTM E 1996's Wind Zones 1 and 2 do not normally require "Missile Level E" (as defined by ASTM E 1996), so the 130 to 160 mph range serves as a convenient wind speed range for the Division's lowest level of protection category (i.e., "Enhanced-A"). The Enhanced-B level of protection corresponds to design wind speeds of 165 to 200 mph, which is consistent with the EHPA criteria's recommended addition of the 40 mph for EHPA's proposed to be located in ASTM E-1996's Wind Zones 3 and 4 (i.e., basic wind speeds ∃ 130 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 Enhanced-C level of protection exceeds the EHPA's design wind speed range, but is consistent with hurricane design wind speeds of 205 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 FEMA 361 and other national guidance publications for F2 and F3 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 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 (140 x 0.40 = 56). Instead of searching for test results specific to a 9 lb 2x4 propelled at 56 mph (9 lb 2x4 @ 56 mph), the designer or specifying authority can select the level of protection applicable to 140 mph from Table K-1 (for vertical surfaces), which is an "Enhanced-A" level of protection; i.e., design wind speed between 130 and 160 mph. The Enhanced-A determination will also concurrently apply to the building's horizontal surfaces, such as roofs.

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 130 mph.

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 F2 (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 absorb the impact forces (e.g., for wall #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 must be 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.

Table K-1. Windborne Debris Impact Criteria Comparisons for Vertical Surfaces						
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	90-125	9	50	74	765	21
Enhanced-A	130-160	9	55	80	894	22
Enhanced-A	130-160	9	60	88	1,082	25
Enhanced-A*	130-160	9	65	95	1,261	27
Enhanced-B	165-200	9	70	103	1,483	29
Enhanced-B	165-200	9	75	110	1,691	31
Enhanced-B*	165-200	9	80	117	1,913	33
Enhanced-C	205-250	9	85	125	2,184	35
Enhanced-C	205-250	9	90	132	2,435	37
Enhanced-C	205-250	9	95	139	2,700	39
Enhanced-C*	205-250	9	100	147	3,020	41
Enhanced-B	165-200	15	50	74	1,275	34
Enhanced-C	205-250	15	55	80	1,491	37
Enhanced-C	205-250	15	60	88	1,804	41
Enhanced-D*	F2 Tornado	15	85	125	3,639	58
Enhanced-E*	F3 Tornado	15	100	147	5,033	68
*-Denotes missile impact criteria (weight and velocity) selected to represent the specified protection type						

Table K-2. Windborne Debris Impact Criteria Comparisons for Horizontal Surfaces

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***	90-125	9	33	48	322	13
Enhanced-A	130-160	9	37	54	408	15
Enhanced-A	130-160	9	40	57	454	16
Enhanced-A*	130-160	9	44	65	590	18
Enhanced-B	165-200	9	47	69	665	19
Enhanced-B	165-200	9	50	74	765	21
Enhanced-B*	165-200	9	54	79	872	22
Enhanced-C	205-250	9	57	84	986	23
Enhanced-C	205-250	9	60	88	1,082	25
Enhanced-C	205-250	9	64	94	1,235	26
Enhanced-C*	205-250	9	67	98	1,342	27
Enhanced-B	165-200	15	33	48	537	22
Enhanced-C	205-250	15	37	54	679	25
Enhanced-C	205-250	15	40	57	757	27
Enhanced-D*	F2 Tornado	15	57	84	1,643	39
Enhanced-E*	F3 Tornado	15	67	98	2,237	46

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

Table K-3. Windborne Debris Impact Resistant Wall Assemblies								
Wall No.	**Assembly Type**	**Assembly Description**	**Data Source**	**Level of Protection**				
				Basic D	**Enhanced A**	**Enhanced B**	**Enhanced C**	**Enhanced D**
				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	---	---	---	---

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
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
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
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
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

Table K-4. Windborne Debris Impact Resistant Roof Assemblies

Roof No.	Assembly Type	Assembly Description	Data Source	Level of Protection				
				Basic D	Enhanced A	Enhanced B	Enhanced C	Enhanced D
				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

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
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