Health Care General & Domestic Security Joint Committee Meeting

Wednesday, October 19, 2005
4:00 PM – 6:00 PM
Morris Hall

COMMITTEE MEETING PACKET

Sandra Adams
Domestic Security, Chair

Gayle B. Harrell
Health Care General, Chair

Committee Meeting Notice

HOUSE OF REPRESENTATIVES

Speaker Allan G. Bense

Health Care General Committee

Start Date and Time:	Wednesday, October 19, 2005 04:00 pm
End Date and Time:	Wednesday, October 19, 2005 06:00 pm
Location:	Morris Hall (17 HOB)
Duration:	2.00 hrs

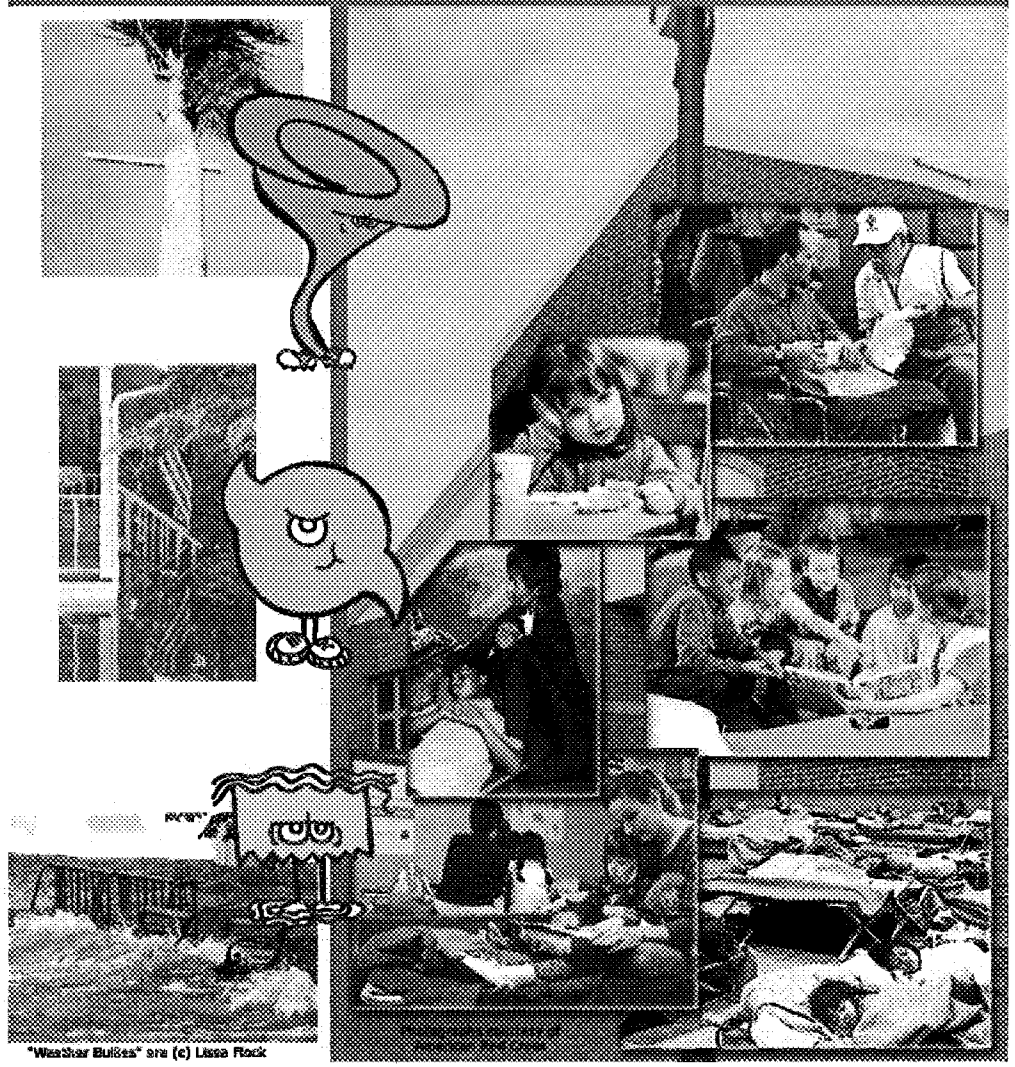
The Health Care General Committee along with the Domestic Security Committee will meet jointly for an Overview of State and Local Hurricane/Disaster Preparedness and Response.

Presentations by:
Department of Community Affairs Division of Emergency Management
Department of Health
Agency for Health Care Administration
Department of Elder Affairs
Charlotte and Escambia Health Departments
Charlotte, Escambia, Martin, Miami-Dade, and Orange County Emergency Management Officials

NOTICE FINALIZED on 10/07/2005 14:01 by RANDOLPH.CHERYL

STATE OF FLORIDA
2004 Statewide Emergency Shelter Plan

Department of Community Affairs
Division of Emergency Management



"Weather Bullies" are (c) Lissa Rock

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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 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 2004 and 2009 regional hurricane shelter space demands, capacities and their respective statuses as regions with a surplus or deficit. At this time, only the South Florida Regional Planning Council (RPC) region (i.e., RPC 11) has a surplus of hurricane shelter space. RPC 11 includes Broward, Miami-Dade and Monroe counties. Based upon currently available information, RPC 11's surplus will continue through 2009. 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

Region Number	Region Name	2004 Hurricane Shelter Demand, spaces	2004 Hurricane Shelter Capacity, spaces	2004 Hurricane Shelter Surplus/ (Deficit), spaces	2009 Hurricane Shelter Demand, spaces	2009 Hurricane Shelter Surplus/ (Deficit), spaces
1	West Florida (WF)	59,986	38,643	(21,343)	66,073	(27,430)
2	Apalachee (APAL)	25,673	8,961	(16,712)	27,806	(18,845)
3	North Central Florida (NCF)	33,287	21,421	(11,867)	36,699	(15,279)
4	Northeast Florida (NEF)	76,165	33,338	(42,827)	84,417	(51,079)
5	Withlacoochee (WITH)	73,451	18,290	(55,161)	82,958	(64,668)
6	East Central Florida (ECF)	91,849	74,773	(17,076)	103,398	(28, 259)
7	Central Florida (CF)	99,636	22,945	(76,691)	109,311	(86,366)
8	Tampa Bay (TB)	370,049	161,516	(208,554)	398,406	(236,891)
9	Southwest Florida (SWF)	237,808	68,765	(169,043)	273,125	(204,360)
10	Treasure Coast (TC)	63,742	61,154	(2,588)	72,845	(11,691)
11	South Florida (SF)	104,723	132,613	27,890	114,835	17,779
	Totals:	1,236,369	643,719	(592,650)	1,369,872	(726,153)

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 zone, flooding isolation, 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.)

District school boards have generally been reporting that the construction cost premium for incorporating the criteria is about two to six 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. 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. From time to time, other 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

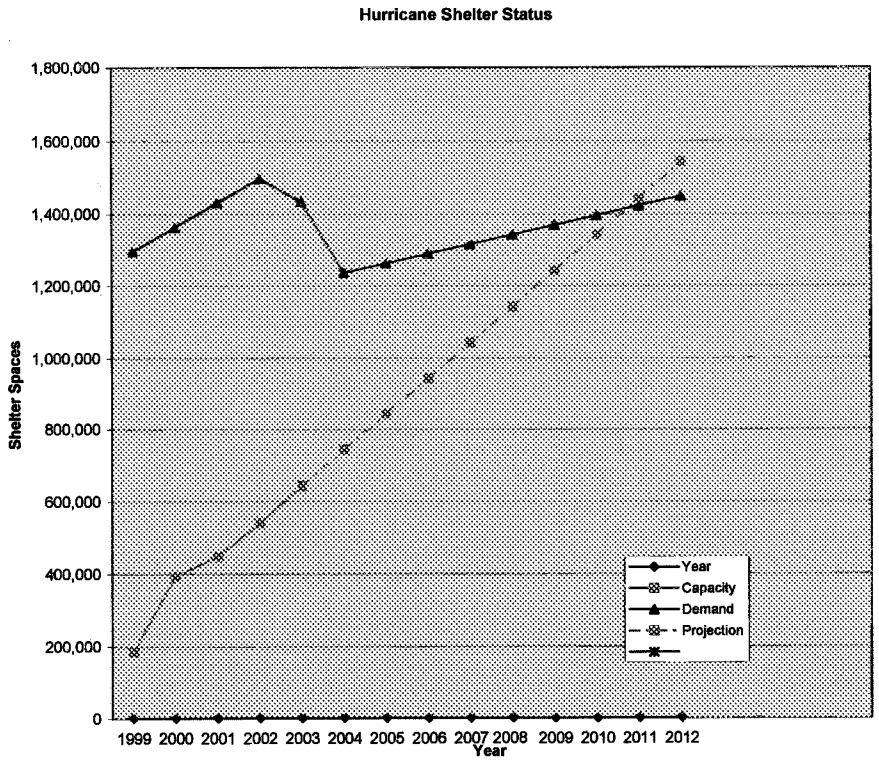
required condition for a public facility to be described as "safe", "suitable" or "appropriate" for use as a public hurricane shelter. To accomplish this objective, the Division has implemented a multifaceted program. This program includes: 1) survey of existing buildings, both public and private, to 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.

Cumulatively, since 1995, the Division's hurricane shelter survey and retrofit program has identified, created or otherwise documented about 434,000 hurricane shelter spaces that meet ARC 4496 guidelines. Public school new construction programs have created an additional 209,654 hurricane shelter spaces. Therefore, by the 2004 hurricane season, Florida will have a total of about 643,719 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 at least 50 percent, and 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 2011.

Since publication of the *2000 Statewide Emergency Shelter Plan*, Florida now has 12 counties with demonstrable surpluses of hurricane shelter space. The counties with surpluses include Brevard, Broward, Escambia, Gilchrist, Indian River, Madison, Miami-Dade, Martin, Osceola, Seminole, Union and Washington. Also, for the first time in recent history, Florida has a region with a demonstrable surplus of hurricane shelter space. RPC 11, which includes Broward, Miami-Dade and Monroe counties, has a 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, 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



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, expertise 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 was a set of comprehensive design criteria that included structural enhancements, potable water and sanitary requirements, provisions for emergency power, and other considerations that would 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 Hurricane Floyd in 1999. During that event, approximately two million people in Florida alone evacuated from the storm; 19 counties along the entire Atlantic coast were under a hurricane or inland high wind warning, and 17 counties issued mandatory evacuation orders for their storm surge vulnerable and manufactured home residents. Of the 67 counties in the state, 58 opened a total of 379 shelters that housed 87,191 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, vehicles, etc.

District public schools are the primary source of public shelter during emergencies, currently accounting for about 93 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.

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, 2001.

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.**

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).

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 EHPAs 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, the Legislature eliminated the "core facility area" language from s. 1013.372, F.S. in 2000, and replaced it with "A facility, or an appropriate area within a facility."

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 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.

"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.

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. EHPAs 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. 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. 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

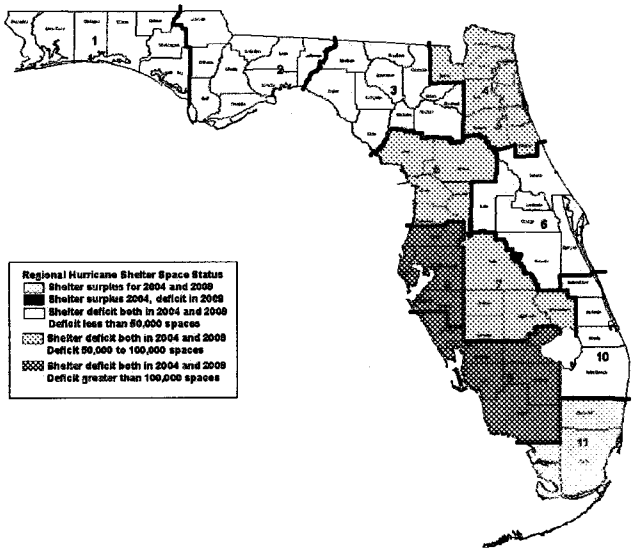
suitable alternatives (either in-place, or within the framework of a five-year plan.) Also, it must be determined if a statutory or code exemption would apply to the construction project, other than that the project is a remodeling of an existing facility.

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 RPC region 11, which includes Broward, Miami-Dade and Monroe counties, has a hurricane shelter space surplus. Therefore, this EHPA criteria exemption factor will not be applicable for 64 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 to the public shelter design criteria:

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 Auditor General's Report No. 02-055, October 2001

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 current and 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

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 county. The tables in Appendix A use the terms "risk" and "host" shelters. Risk shelters include those shelter spaces designated for use during a major hurricane, and host shelters include those spaces available for general use outside of a 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 Categories 4 and 5 for Shelter Capacity, Vulnerable Population, Shelter Demands, Shelter Surpluses/Deficits, and Capacity Results for 2004 and 2009 (in number of persons) in TABLE 3-1. Region/County estimates are provided for Hurricane Categories 4 and 5 for Shelter Capacity, Vulnerable Population, Shelter Demands, Shelter Surpluses/Deficits, and Capacity Results for 2004 and 2009 (in square feet) in TABLE 3-2.

Shelter Demand Sources/Results by County. County shelter demand estimates are provided for Storm Categories 4 and 5, and include shelter demand for 2004/2009, vulnerable populations, percentages of vulnerable populations, and sources (Hurricane Evacuation Studies), in Appendix J.

The 2004 and 2009 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 at the University of Florida. The Category 4 and 5 Vulnerable Populations from the Regional Hurricane Evacuation Studies were multiplied by the average annual percentage growth 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 2004 estimates and the 2009 projections. 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 2003, and also cross-referenced with the *2003 Shelter Retrofit Report*. Since 1995, Florida has been implementing of ARC 4496 hurricane shelter selection standards and Florida's *Model Hurricane Evacuation Shelter Selection Guidelines*. Therefore, based upon subsequent results of regional and county hurricane shelter surveys, local emergency management

agencies were requested to provide shelter inventory capacities based on those facilities that met the required ARC 4496 standards, and separately those facilities that did not. Those facilities that have not yet been surveyed, and therefore have not yet been documented to meet the above standards, were designated as facilities not meeting the ARC 4496 standards. The 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 shelter space, and where appropriate, 40 square feet per Persons with Special Needs (PSN) Shelters.

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 data of the hurricane evacuation study are combined with local income characteristics in general hurricane risk area (two important variables in determining public shelter use) to calculate shelter demand numbers. The only regions or counties where a behavioral analysis, as part of a hurricane evacuation study effort, was not conducted by the Hazards Management Group are East Central Florida, and Central Florida. Nonetheless, shelter demand numbers were provided in the hurricane evacuation study and those figures were used for the purposes of this plan.

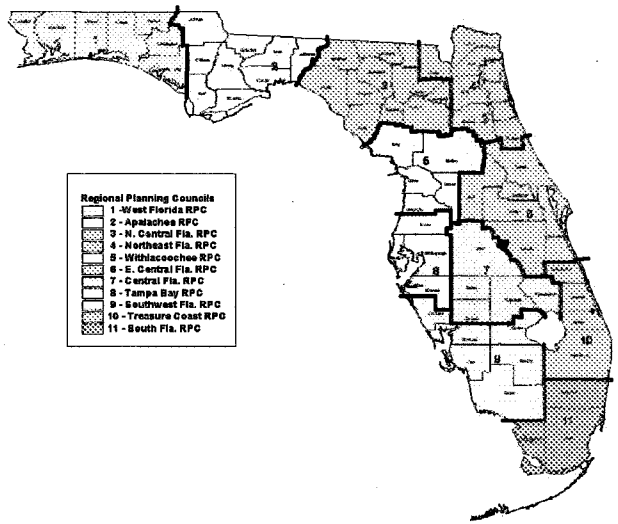
The hurricane evacuation studies conducted for all regions of Florida between 1988 and 2000 include shelter demand figures for each county. For this Plan, these data served as the basis for estimating the year 2004 and 2009 shelter demand numbers for Florida's coastal counties. The same methodology for projecting the vulnerable population to the year 2004 and 2009 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 suffer from 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 figures for people and square footage are derived using the same methodology of the Category 4/5 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 2004 estimates and the 2009 projections. 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 for 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 county's hurricane evacuation study derived vulnerable population figures by the public shelter use percentages developed in the most recent Hazards Management Group's behavioral survey for the county or region.

Shelter Capacity: 2004 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 40 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 2004 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 2004 estimates and 2009 projections and is based on the Shelter Surplus/Deficit In People figure.

TABLE 3-1. Shelter Demand/Capacity In People

REGION Number	County	2004 Category 5 Shelter Demand in People (estimated)	2009 Category 5 Shelter Demand in People (estimated)	2004 Risk Shelter Capacity in People	2004 Shelter Surplus/ Deficit in People	2009 Shelter Surplus/ Deficit in People
	Bay	14,959	16,131	7,515	-7,445	-8,617
	Escambia	15,314	16,193	16,827	1,513	634
	Holmes	1,415	1,530	850	-565	-680
1	Okaloosa	12,946	14,066	800	-12,146	-13,266
	Santa Rosa	8,957	10,641	7,151	-1,806	-3,490
	Walton	4,861	5,810	4,445	-416	-1,365
	Washington	1,534	1,702	2,356	822	654
REGION 1 TOTAL		59,986	66,073	39,944	20,042	26,129
	Calhoun	1,395	1,502	0	-1,395	-1,502
	Franklin	185	202	0	-185	-202
	Gadsden	3,904	4,076	2,853	-1,051	-1,223
	Gulf	846	904	10	-836	-894
2	Jackson	3,989	4,219	3,401	-588	-818
	Jefferson	879	934	626	-253	-308
	Leon	12,564	13,796	821	-11,743	-12,975
	Liberty	1,154	1,273	600	-554	-673
	Wakulla	757	900	650	-107	-250
REGION 2 TOTAL		25,673	27,806	8,961	-16,712	-18,845
	Alachua	8,851	9,602	3,075	-5,776	-6,527
	Bradford	2,067	2,211	1,644	-423	-567
	Columbia	5,658	6,371	614	-5,044	-5,757
	Dixie	2,679	3,000	1,592	-1,087	-1,408
	Gilchrist	2,066	2,420	3,390	1,324	970
3	Hamilton	1,455	1,588	501	-954	-1,087
	Lafayette	899	993	368	-531	-625
	Madison	1,660	1,757	7,398	5,738	5,641
	Suwannee	4,461	4,990	355	-4,106	-4,635
	Taylor	2,281	2,410	600	-1,681	-1,810
	Union	1,210	1,357	1,884	674	527
REGION 3 TOTAL		33,287	36,699	21,421	-11,867	-15,279
	Baker	2,114	2,303	295	-1,819	-2,008
	Clay	10,332	11,712	3,212	-7,120	-8,500
	Duval	32,739	35,059	12,481	-20,258	-22,578
4	Flagler	6,668	8,287	4,267	-2,401	-4,020
	Nassau	4,996	5,636	3,738	-1,258	-1,898
	Putnam	9,487	9,856	2,025	-7,462	-7,831
	St. Johns	9,829	11,564	7,320	-2,509	-4,244
REGION 4 TOTAL		76,165	84,417	33,338	-42,827	-51,079
	Citrus	14,838	16,414	3,344	-11,494	-13,070
	Hernando	17,320	19,331	4,350	-12,970	-14,981
5	Levy	5,186	5,845	2,455	-2,731	-3,390
	Marion	28,188	31,765	6,970	-21,218	-24,795
	Sumter	7,919	9,603	1,171	-6,748	-8,432

TABLE 3-1. Shelter Demand/Capacity In People

REGION Number	County	2004 Category 5 Shelter Demand in People (estimated)	2009 Category 5 Shelter Demand in People (estimated)	2004 Risk Shelter Capacity in People	2004 Shelter Surplus/ Deficit in People	2009 Shelter Surplus/ Deficit in People
REGION 5 TOTAL		73,451	82,968	18,290	-55,161	-64,668
6	Brevard	18,097	19,695	29,625	11,528	9,930
	Lake	16,331	18,962	10, 682	-5,649	-8,280
	Orange	13,938	15,876	6,320	-7,618	-9,556
	Osceola	9,885	12,169	10,824	939	-1,345
	Seminole	3,405	3,810	8,497	5,092	4,687
	Volusia	30,193	32,886	8,826	-21,368	-24,061
REGION 6 TOTAL		91,849	103,398	74,773	-17,076	-28,625
7	DeSoto	6,416	7,247	4,245	-2,171	-3,002
	Hardee	9,655	10,989	1,267	-8,388	-9,722
	Highlands	22,245	24,655	3,018	-19,227	-21,637
	Okeechobee	19,480	21,185	3,243	-16,237	-17,942
	Polk	41,840	45,235	11,172	-30,668	-34,063
REGION 7 TOTAL		99,636	109,311	22,945	-76,691	-86,366
8	Hillsborough	134,705	146,823	79,553	-55,152	-67,270
	Manatee	42,425	47,089	23,024	-19,401	-24,065
	Pasco	63,866	70,359	23,413	-40,454	-46,947
	Pinellas	129,053	134,135	35,526	-93,527	-98,609
REGION 8 TOTAL		370,049	398,406	161,516	-208,534	-236,891
9	Charlotte	29,649	33,336	1,500	-28,149	-31,836
	Collier	41,863	52,697	14,600	-27,263	-38,097
	Glades	5,900	6,902	607	-5,293	-6,295
	Hendry	6,222	7,307	4,004	-2,218	-3,303
	Lee	105,134	119,866	17,768	-87,366	-102,098
	Sarasota	49,040	53,017	30,286	-18,754	-22,731
REGION 9 TOTAL		237,808	273,125	68,765	-169,043	-204,360
10	Indian River	6,800	7,636	7,521	721	-115
	Martin	8,266	9,298	11,271	3,005	1,973
	Palm Beach	42,014	48,331	38,065	-3,949	-10,266
	St. Lucie	6,662	7,580	4,297	-2,365	-3,283
REGION 10 TOTAL		63,742	72,845	61,154	-2,588	-11,691
11	Broward	40,349	45,635	41,475	1,126	-4,160
	Miami-Dade	59,480	64,256	90,438	30,958	26,182
	Monroe	4,894	4,943	700	-4,194	-4,243
REGION 11 TOTAL		104,723	114,834	132,613	27,890	17,779
STATEWIDE TOTAL		1,236,369	1,369,872	643,719	-592,650	-726,153

TABLE 3-2. Shelter Demand/Capacity In Square Feet

REGION Number	County	2004 Category 5 Shelter Demand (ft2) (estimated)	2009 Category 5 Shelter Demand (ft2) (estimated)	2004 Risk Shelter Capacity (ft2)	2004 Shelter Surplus/ Deficit (ft2)	2009 Shelter Surplus/ Deficit (ft2)
1	Bay	299,180	322,620	150,292	-148,888	-172,328
	Escambia	306,280	323,860	346,499	40,219	22,639
	Holmes	28,300	30,600	33,832	5,532	3,232
	Okaloosa	258,920	281,320	16,000	-242,920	-265,320
	Santa Rosa	179,140	212,820	126,095	-53,045	-86,725
	Walton	97,220	116,200	93,400	-3,820	-22,800
	Washington	30,680	34,040	47,203	16,523	13,163
REGION 1 TOTAL		1,199,720	1,321,460	813,321	386,399	-508,139
2	Calhoun	27,900	30,040	0	-27,900	-30,040
	Franklin	3,700	4,040	0	-3,700	-4,040
	Gadsden	78,080	81,520	57,060	-21,020	-24,460
	Gulf	16,920	18,080	600	-16,320	-17,480
	Jackson	79,780	84,380	68,017	-11,763	-16,363
	Jefferson	17,580	18,680	12,520	-5,060	-6,160
	Leon	251,280	275,920	16,420	-234,860	-259,500
	Liberty	23,080	25,460	12,000	-11,080	-13,460
	Wakulla	15,140	18,000	13,000	-2,140	-5,000
REGION 2 TOTAL		513,460	556,120	179,617	-333,843	-376,503
3	Alachua	177,020	192,040	61,500	-115,520	-130,540
	Bradford	41,340	44,220	35,537	-5,803	-8,683
	Columbia	113,160	127,420	12,289	-100,871	-115,131
	Dixie	53,580	60,000	31,840	-21,740	-28,160
	Gilchrist	41,320	48,400	70,320	29,000	21,920
	Hamilton	29,100	31,760	9,993	-19,107	-21,767
	Lafayette	17,980	19,860	9,159	-8,821	-10,701
	Madison	33,200	35,140	147,960	114,760	112,820
	Suwannee	89,220	99,800	7,109	-82,111	-92,691
	Taylor	45,620	48,200	24,000	-21,620	-24,200
	Union	24,200	27,140	39,680	15,480	12,540
REGION 3 TOTAL		665,740	733,980	449,387	-216,353	-284,593
4	Baker	42,280	46,060	5,904	-36,376	-40,156
	Clay	206,640	234,240	78,656	-127,984	-155,584
	Duval	654,780	701,180	280,460	-374,320	-420,720
	Flagler	133,360	165,740	85,338	-48,022	-80,402
	Nassau	99,920	112,720	77,307	-22,613	-35,413
	Putnam	189,740	197,120	40,500	-149,240	-156,620
	St. Johns	196,580	231,280	196,960	380	-34,320
REGION 4 TOTAL		1,523,300	1,688,340	765,125	-758,175	-923,215
5	Citrus	296,760	328,280	66,881	-229,879	-261,399
	Hernando	346,400	386,620	95,580	-250,820	-291,040
	Levy	103,720	116,900	49,100	-54,620	-67,800
	Marion	563,760	635,300	154,821	-408,939	-480,479
	Sumter	158,380	192,060	23,420	-134,960	-168,640

TABLE 3-2. Shelter Demand/Capacity In Square Feet

REGION Number	County	2004 Category 5 Shelter Demand (ft2) (estimated)	2009 Category 5 Shelter Demand (ft2) (estimated)	2004 Risk Shelter Capacity (ft2)	2004 Shelter Surplus/ Deficit (ft2)	2009 Shelter Surplus/ Deficit (ft2)
REGION 5 TOTAL		1,469,020	1,659,160	389,802	-1,079,218	-1,269,358
6	Brevard	361,940	393,900	604,300	242,360	210,400
	Lake	326,620	379,240	223,420	-103,200	-155,820
	Orange	278,760	317,520	131,655	-147,105	-185,865
	Osceola	197,700	243,380	216,487	18,787	-26,893
	Seminole	68,100	76,200	173,928	105,828	97,728
	Volusia	603,860	657,720	205,480	-398,380	-452,240
REGION 6 TOTAL		1,836,980	2,067,960	1,555,270	-281,710	-512,690
7	DeSoto	128,320	144,940	113,838	-14,482	-31,102
	Hardee	193,100	219,780	25,346	-167,754	-194,434
	Highlands	444,900	493,100	60,360	-384,540	-432,740
	Okeechobee	389,600	423,700	64,850	-324,750	-358,850
	Polk	836,800	904,700	216,281	-620,519	-688,419
REGION 7 TOTAL		1,992,720	2,186,220	480,675	-1,512,045	-1,705,545
8	Hillsborough	2,694,100	2,936,460	1,596,862	-1,097,238	-1,339,598
	Manatee	848,500	941,780	433,683	-414,817	-508,097
	Pasco	1,277,320	1,407,180	487,120	-790,200	-920,060
	Pinellas	2,581,060	2,682,700	715,490	-1,865,570	-1,967,210
REGION 8 TOTAL		7,400,980	7,968,120	3,233,155	-4,167,826	-4,734,965
9	Charlotte	592,980	666,720	30,000	-562,980	-636,720
	Collier	837,260	1,053,940	327,000	-510,260	-726,940
	Glades	118,000	138,040	12,134	-105,866	-125,906
	Hendry	124,440	146,140	81,705	-42,735	-64,435
	Lee	2,102,680	2,397,320	365,360	-1,737,320	-2,031,960
	Sarasota	980,800	1,060,340	643,053	-337,747	-417,287
REGION 9 TOTAL		4,756,160	5,462,500	1,459,252	-3,296,908	-4,003,248
10	Indian River	136,000	152,720	171,243	35,243	18,523
	Martin	165,320	185,960	230,834	65,514	44,874
	Palm Beach	840,280	966,620	761,300	-78,980	-205,320
	St. Lucie	133,240	151,600	85,940	-47,300	-65,660
REGION 10 TOTAL		1,274,840	1,456,900	1,249,317	-25,523	-207,583
11	Broward	806,980	912,700	911,500	104,520	-1,200
	Miami-Dade	1,189,600	1,285,120	1,818,760	629,160	533,640
	Monroe	97,880	98,860	14,000	-83,880	-84,860
REGION 11 TOTAL		2,094,460	2,296,680	2,744,260	649,800	447,580
STATEWIDE TOTAL		24,727,380	27,397,440	13,319,811	-11,408,199	-14,078,259

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 nearly 95 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 93 percent of current capacity. This is due to the fact that schools are widely distributed in populated areas, school facilities are designed for large assembly occupancies with many inherent mass care features (e.g., adequate quantity of toilets, dining/feeding areas, etc.), access to the facilities can be coordinated through a single local agency, etc. The types of school buildings that are potentially appropriate for use as public shelters include gymnasiums, cafeterias, multipurpose facilities, auditoriums, certain classroom buildings, etc.

Community colleges account for only about one (1) percent of current public shelter capacity. Community colleges are regionally distributed, and potentially located in areas with high demands for public hurricane shelter space. 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 State Uniform Building Code for Public Educational Facilities Construction, adopted pursuant to s. 1013.37, F.S. (i.e., SREF), or with applicable state minimum building codes. 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 four (4) percent of current public hurricane shelter capacity. (Privately-owned and non-educational state-owned facilities account for less than one percent of the hurricane shelter space inventory.) 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 two (2) 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 EHPAs, 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.

5.2 Department of Management Services Facilities

If the additional cost of adding emergency shelter capabilities to a new Department of Management Services (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. An analysis should be performed to ensure that the bondholders' interest in the new facility is not compromised.

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 Other 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.

Global match has been used to create an estimated 162,000 public hurricane shelter spaces since 1999. 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. To date, the Division has completed more than 68 percent of the survey, and projects that the baseline survey will be completed by 2005. 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 $10 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 *2003 Shelter Retrofit Report* can provide additional information concerning Florida's hurricane shelter survey and retrofit program. The *2003 Shelter Retrofit Report* can be viewed at the following web address:

http://floridadisaster.org/bpr/Response/engineers/documents/03ShelterRetrofit.pdf

Since 1995, through federal, state, and local retrofitting of suitable facilities, Florida has created a total of about 410,000 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. 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 209,600 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) EHPAs. EHPA spaces account for about one-third (1/3) 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 434,000 hurricane shelter spaces that meet ARC 4496 guidelines. The EHPA construction program has created about 209,600 hurricane shelter spaces. Therefore, by the 2004 hurricane season, Florida will have a total of about 643,700 shelter spaces that meet ARC 4496 guidelines.

Table 6-1. Hurricane Shelter Deficit Reduction Cumulative Progress (1995-2004)

County Retrofit/EHPA Cumulative Totals

Totals Per County	Pre-Mitigation ARC 4496 Capacity (persons)	EHPA Capacity Gained (persons)	Retrofitted / Mitigated Capacity Gained (persons)	Total ARC 4496 Spaces
ALACHUA	0	0	3,075	3,075
BAKER	0	295	0	295
BAY	0	1,211	6,304	7,515
BRADFORD	0	0	1,644	1,644
BREVARD	2,500	2,875	24,250	29,625
BROWARD	0	41,475	0	41,475
CALHOUN	0	0	0	0
CHARLOTTE	0	0	1,500	1,500
CITRUS	0	544	2,800	3,344
CLAY	0	1,363	1,849	3,212
COLLIER	0	5,500	9,100	14,600
COLUMBIA	0	614	0	614
DESOTO	0	0	4,245	4,245
DIXIE	0	460	1,132	1,592
DUVAL	0	2,467	10,014	12,481
ESCAMBIA	155	1,179	15,493	16,827
FRANKLIN	0	0	0	0
FLAGLER	0	0	4,267	4,267

Table 6-1. Hurricane Shelter Deficit Reduction Cumulative Progress (1995-2004)

County Retrofit/EHPA Cumulative Totals

Totals Per County	Pre-Mitigation ARC 4496 Capacity (persons)	EHPA Capacity Gained (persons)	Retrofitted / Mitigated Capacity Gained (persons)	Total ARC 4496 Spaces
GADSEN	0	2,453	400	2,853
GILCHRIST	0	0	3,390	3,390
GLADES	0	0	607	607
GULF	0	0	10	10
HAMILTON	0	0	501	501
HARDEE	0	514	753	1,267
HENDRY	0	1,000	3,004	4,004
HERNANDO	0	263	4,087	4,350
HIGHLANDS	0	334	2,684	3,018
HILLSBOROUGH	3,346	35,347	40,860	79,553
HOLMES	0	850	0	850
INDIAN RIVER	0	0	7,521	7,521
JACKSON	0	2,505	896	3,401
JEFFERSON	0	626	0	626
LAFAYETTE	0	0	368	368
LAKE	0	7,870	2,812	10,682
LEE	0	5,125	12,643	17,768
LEON	821	0	0	821
LEVY	240	0	2,215	2,455
LIBERTY	0	600	0	600
MADISON	0	0	7,398	7,398
MANATEE	1,566	5,488	15,970	23,024
MARION	0	1,470	5,500	6,970
MARTIN	0	4,898	6,373	11,271
MIAMI-DADE	0	12,773	77,665	90,438
MONROE	0	0	700	700
NASSAU	0	2,866	872	3,738
OKALOOSA	0	750	50	800
OKEECHOBEE	0	1,011	2,232	3,243
ORANGE	0	2,949	3,371	6,320
OSCEOLA	0	7,165	3,659	10,824
PALM BEACH	400	18,185	19,480	38,065
PASCO	3,380	3,940	16,093	23,413
PINELLAS	10,484	5,000	20,042	35,526
POLK	0	8,331	2,841	11,172
PUTNAM	0	1,300	725	2,025

Table 6-1. Hurricane Shelter Deficit Reduction Cumulative Progress (1995-2004)

County Retrofit/EHPA Cumulative Totals

Totals Per County	Pre-Mitigation ARC 4496 Capacity (persons)	EHPA Capacity Gained (persons)	Retrofitted / Mitigated Capacity Gained (persons)	Total ARC 4496 Spaces
ST.JOHNS	0	1,900	5,420	7,320
ST.LUCIE	0	0	4,297	4,297
SANTA ROSA	846	352	5,953	7,151
SARASOTA	0	7,506	22,780	30,286
SEMINOLE	0	0	8,497	8,497
SUMTER	0	200	971	1,171
SUWANNEE	0	0	355	355
TAYLOR	0	600	0	600
UNION	0	1,060	824	1,884
VOLUSIA	0	1,253	7,573	8,826
WAKULLA	0	650	0	650
WALTON	0	4,385	60	4,445
WASHINGTON	0	153	2,203	2,356
Totals	**23,738**	**209,654**	**410,327**	**643,719**

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 at least minimized the surge height predicted.

Armed with new storm tide atlases and hurricane evacuation studies, local emergency management officials are then 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 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. Since publication of the *2000 Statewide Emergency Shelter Plan*, the statewide average demand has fallen from about 24 percent to about 16 percent with publication of this Plan. The practical effect is an apparent reduction in hurricane shelter space demand of 540,237 since 2000; though in reality this means federal, state and local agencies do not have to invest public funds to create the additional 540,237 "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 has educated 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 will 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.

As can be seen in Table 6-2, the apparent maximum hurricane shelter space deficit of more than 1.5 million, as reported in the *2000 Statewide Emergency Shelter Plan*, has been dramatically reduced. Florida's hurricane shelter survey and retrofit program, which includes federal, state, local and private-sector partners, has identified or created about 434,000 shelter spaces, public education agencies have created an additional 209,600 shelter spaces through construction of new school facilities to meet the EHPA criteria, and hurricane shelter space demand reduction measures have proven effective by reducing the apparent 2000 demand by about 540,200 spaces. With publication of this Plan, Florida's hurricane shelter space deficit has been reduced to 592,650 spaces.

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 12 counties with demonstrable surpluses of hurricane shelter space. The counties with surpluses include Brevard, Broward, Escambia, Gilchrist, Indian River, Madison, Miami-Dade, Martin, Osceola, Seminole, Union and Washington. Also, for the first time in recent history, Florida has a region with a demonstrable surplus of hurricane shelter space. The South Florida Regional Planning Council region (RPC 11), which includes Broward, Miami-Dade and Monroe counties, has a surplus of hurricane shelter space. Since 1995, Florida has reduced its hurricane shelter space deficit by at least 50 percent.

Table 6-2. Summary of Findings from Statewide Emergency Shelter Plans (2000-2004)

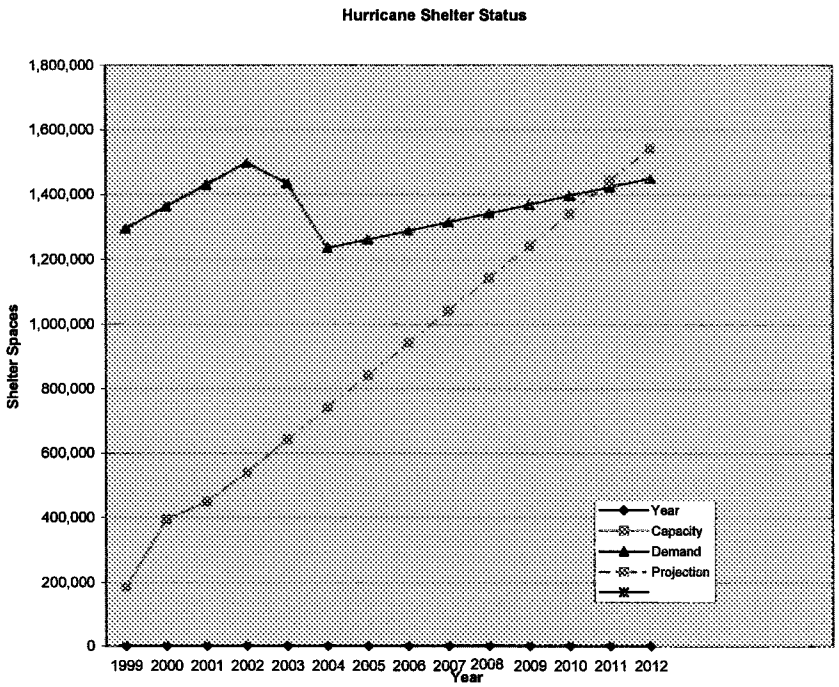
Statewide Emergency Shelter Plan source	Statewide Hurricane Vulnerable Pop. (people)	Statewide Hurricane Shelter Demand (spaces*)	Statewide Hurricane Shelter Capacity (spaces*)	Statewide Hurricane Shelter (Deficit) / Surplus (spaces*)
2000 Statewide Emergency Shelter Plan (for year 2000, based on 1990 census data)	7,251,360	1,776,606	274,674	(1,501,931)
2002 Statewide Emergency Shelter Plan (for year 2002, based on 2000 census data)	7,931,809	1,497,913	462,542	(1,035,371)
2004 Statewide Emergency Shelter Plan (for year 2004, based on 2000 census data)	7,920,275	1,236,369	643,719	(592,650)
2009 Projected deficit per 2004 Statewide Emergency Shelter Plan (for year 2009, based on 2000 census data)	8,816,275	1,369,872	643,719**	(726,153)

* - Based on 20 square feet per shelter space.

** - 2009 projected hurricane shelter capacity shown includes only estimated 2004 capacity, which indicates deficit in 2009 if no additional retrofitting or EHPA capacity is created (i.e., worst-case scenario).

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 Florida Inventory of School Houses (FISH) inventory data, the Department found that about 6.8 million square feet of potentially suitable shelter space was constructed between 2000 and 2003. This quantity of square footage could potentially create as many as 340,000 new hurricane shelter spaces. Assuming that this is an average rate of construction, new construction could create about 85,000 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 EHPAs). Together, this will create a combined 100,000 hurricane shelter spaces per year that meet ARC 4496. The Department estimates that by 2011, the state's deficit of hurricane shelter spaces may be eliminated.

Figure 6-1. Projected Hurricane Shelter Deficit Reduction



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 2004 Plan shows significant progress in reducing the deficit of "safe" public hurricane shelter space in Florida. Since 1995, more than 643,719 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 1,236,369 spaces for 2004. 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 592,650 spaces in 2004.

For the 2004 Plan, the Department has documented twelve counties that now demonstrate public hurricane shelter space surpluses. The counties with surpluses are Brevard, Broward, Escambia, Gilchrist, Indian River, Madison, Miami-Dade, Martin, Osceola, Seminole, Union and Washington. Also for the first time, Florida has a region (RPC region 11) with a demonstrable shelter surplus.

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 2011. 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

County Shelter Information

ALACHUA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Alachua Elementary -	Bldg 5/Halls	218 NE 4th Avenue	Alachua	32615	0	0	0	91
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. 5/Gym	5510 NW 27th Avenue	Gainesville	32606	394	0	0	0
Eastside High -	Bldg. 7/Gym	1201 SE 45th Terrace	Gainesville	32641	394	0	0	0
Eastside High	Bldg. 9/Halls	1201 SE 45th Terrace	Gainesville	32641	0	0	0	73
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/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

County Shelter Information

ALACHUA

Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
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/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
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 Florida	Reitz Union	Building 686	Gainesville	32607	2,900	700	14,000	0
University of Fl.orida SW Rec	Bldg 316	Building 316	Gainesville	32607	0	2,375	47,500	0
Westwood Middle -	Bldg. 16/Gym	3215 NW 15th Avenue	Gainesville	32605	269	0	0	0
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		7,703	3,075	61,500	4,658

Year 2004	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	**3,075**	**8,851**	**-5,776**	**61,500**	**177,020**	**-115,520**	**DEFICIT**

County Shelter Information

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)
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	0	0
New Macclenny Elementary	cafeteria	1 Wildkitten Drive	Macclenny	32063	295	295	5,904	295
				Totals for Baker County	1,645	295	5,904	1,645

Year 2004	Shelter Capacity In People	Shelter Demand In People	Surplus /Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 5	295	2,114	-1,819	5,904	42280	-36,376	DEFICIT

County Shelter Information

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)
Bay High School		1204 Harrison Avenue	Panama City	32405	1,979	0	0	0
Callaway Elementary School		7115 State Road 22	Callaway	32404	972	0	0	0
Highland Park Elementary School		2507 E Baldwin Road	Panama City	32405	2,177	0	0	237
Lynn Haven Elementary School		301 W 9th Street	Lynn Haven	32444	1,068	0	0	0
Merritt Brown Elementary School	4 (classrooms)	5601 Merritt Brown Road	Panama City	32404	2,694	1,237	24,740	0
Millville Elementary School		203 N East Avenue	Panama City	32401	1,990	0	0	1,492
Moore Elementary School	10	1900 Michigan Avenue	Panama City	32405		171	3,412	
Moore Elementary School	11	1900 Michigan Avenue	Panama City	32405		435	8,693	
Moore Elementary School	12	1900 Michigan Avenue	Panama City	32405		396	7,923	
Moore Elementary School	13	1900 Michigan Avenue	Panama City	32405		60	1,202	
A. Crawford Mosely High School		501 Mosley Drive	Lynn Haven	32444	3,130	0	0	1,351
Rutherford High School		1000 School Avenue	Panama City	32401	3,782	0	0	375
Surfside Middle School	4 (classrooms)	300 Nautilus Street	Panama City Beach	32407		1,297	25,934	
Surfside Middle School	5	300 Nautilus Street	Panama City Beach	32407		639	12,787	
T. Smith Elementary School	1	5044 Tommy Smith Way	Panama City	32404		504	10,078	
T. Smith Elementary School	2	5044 Tommy Smith Way	Panama City	32404		617	12,340	
T. Smith Elementary School	3	5044 Tommy Smith Way	Panama City	32404		201	4,016	
T. Smith Elementary School	4	5044 Tommy Smith Way	Panama City	32404		327	6,549	
Waller Elementary School	3 (café)	11332 Hwy 338	Youngstown	32466		138	2,750	

County Shelter Information

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)
Waller Elementary School	4 (classrooms)	11332 Hwy 338	Youngstown	32466		282	5,649	
Northside Elementary School		2001 Northside Drive	Panama City	32401		0	0	240
Bozeman Learning Center K-8	8 (Gym)	13410 Highway 77	Southport	32409		646	12,926	0
Bozeman Learning Center K-8	9 (Dining)	13410 Highway 77	Southport	32409		565	11,293	0
				TOTALS FOR BAY COUNTY	17,782	7,515	150,292	3,455

Year 2004	Shelter Capcity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	7,515	14,959	-7,445	150,292	299,180	-148,888	DEFICIT

County Shelter Information

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)
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	3,462	
South Side Elementary School	10	823 Stanbury St	Starke	32091	120	131	5,250	
Starke Elementary School	2	1000 Weldon St	Hampton	32044	250	363	7,260	
Starke Elementary School	3	1000 Weldon St	Hampton	32044		318	6,360	
Starke Elementary School	5	1000 Weldon St	Hampton	32044		307	6,155	
Starke Elementary School	6	1000 Weldon St	Hampton	32044		352	7,050	
				TOTALS FOR BRADFORD COUNTY	5,089	1,644	35,537	4,719

Year 2004	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	1,644	2,067	-423	35,537	41,340	-5,803	DEFICIT

County Shelter Information

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)
Anderson Elementary School	2,3,4,5	3011 S Fiske Boulevard	Rockledge	32955	700	250	5,000	
Apollo Elementary School	2,3,4,5	3085 Knox McCrea Drive	Titusville	32780	700	250	5,000	
Astronaut High School		800 War Eagle Boulevard	Titusville	32796	150	300	6,000	
Atlantis Elementary	1 thru 6	7300 Briggs Avenue	Port St. John	32927	900	1,500	30,000	
Bayside High School	Gym	1901 DeGroodt	Palm Bay	32908	3,100	275	11,000	
Bayside High School	Main+2	1901 DeGroodt	Palm Bay	32908		1,500	30,000	
Brevard Community College - Cocoa	Bldg 20	1519 Clearlake Drive	Cocoa	32922	3,400	1,500	30,000	
Brevard Community College - Cocoa	3	1519 Clearlake Drive	Cocoa	32922		2,500	50,000	
Brevard Community College - Melbour	1	3865 N Wickham Road	Melbourne	32935	1,500	1,000	14,000	
Brevard Community College - Melbour	10	3865 N Wickham Road	Melbourne	32935		600	9,300	
Brevard Community Colllege - Melbou	5	3865 N Wickham Road	Melbourne	32935		0	0	
Central Middle School		2600 Wingate Boulevard	W Melbourne	32904	1,600	600	12,000	
Central Reference Library	1					1,000	20,000	
City of Palm Bay	EOC					150	3,000	
Discovery Elementary School	1 thru 6	1275 Glendale Avenue NW	Palm Bay	32905	900	1,500	30,000	
Eau Gallie High School	Science	1400 Commodore Blvd	Melbourne	32935	1,700	600	12,000	
Eau Gallie High School	Aud	1400 Commodore Blvd	Melbourne	32935		800	16,000	
Enterprise Elementary School	1 thru 6	7000 Enterprise Road	Port St. John	32927	900	1,500	30,000	
Imperial Estates Elementary School	5 thru 8	5525 Kathy Drive	Titusville	32780	850	300	6,000	
Jupiter Elementary School	1 thru 6	950 Tupelo Road SW	Palm Bay	32908	900	1,500	30,000	
Long Leaf Elementary School		4290 N Wickham Road	Melbourne	32935	1,000	400	8,000	
Meadowland Elementary School	1 thru 6	2800 Wingate Boulevard	Melbourne	32904	900	1,500	30,000	
Melbourne High School	1 & 8	74 Bulldog Way	Melbourne	32901	1,200	300	6,000	
Oak Park Elementray School	2,5,6,7,8	3395 Dairy Road	Titusville	32796	500	500	10,000	
Pinewood Elementary School	4	3654 Lionel Road	Mims	32754	900	300	6,000	
Port St. John Community Center	Center					500	10,000	
Ralph Williams Junior Elementary	1	1700 Clubhouse Drive	Rockledge	32955	750	1,000	30,000	
Riviera Elementary School	1 thru 6	351 Riviera Drive NE	Palm Bay	32905	900	1,500	30,000	
Rockledge High School	1,2,8,16	220 Raider Drive	Rockledge	32955	1,500	400	8,000	
Roy Allen ES		2601 Fountianhead	Melbourne	32909	1,000	1,000	20,000	
South Mainland (Micco)	Main (1)	3700 Allen Avenue	Micco	32976	150	150	3,000	
South Mainland (Micco)	Gym	3700 Allen Avenue	Micco	32976		600	12,000	
Sherwood Elementray School		2541 Post Road	Melbourne	32935	750	250	10,000	
Southwest Junior High School		451 Eldron Boulevard SE	Palm Bay	32909	1,000	0	0	
Space Coast Middle School		6150 Banyan Street	Port St. John	32927	1,300	600	12,000	
Suntree Elementary School	1 thru 6	900 Pinehurst Avenue	Melbourne	32940	900	1,500	30,000	

County Shelter Information

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)
Westside Elementary School		2175 DeGroodt Road SW	Palm Bay	32908	1,000	1,500	30,000	
			TOTALS FOR BREVARD COUNTY		31,050	29,625	604,300	0

Year 2004	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	29,625	18,097	11,528	604,300	361,940	242,360	SURPLUS

County Shelter Information

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)
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	3771	5700 NW 94	Tamarac	33321		815	16,300	
Coconut Creek High School		1400 NW 44th Avenue	Coconut Creek	33066	900	0	0	1,800
Coconut Palm Elementary School		13601 Monarch Lakes Blvd	Miramar	33027		1,210	24,200	
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 High	3731	17100 SW 48	Miramar	33027		1,800	36,000	
Everglades Elementary	2942	2900 Bonaventure Blvd	Weston	33331	450	815	16,300	
Falcon Cove Middle School	2431	4251 Bonaventure Blvd	Weston	33331	500	1,440	28,800	
Floranda Elementary School	851	5251 NE 14th Way	Ft. Lauderdale	33334	0	0	0	1,210
Fox Trail Elementary School	3531	1250 Nob Hill Road	Davie	33324	450	1,210	24,200	
Gator Run Elementary	3641	1101 Arvida Parkway	Weston	33327		815	16,300	
GGG High School		5050 Wiles Road	Coconut Creek	33063		1,800	36,000	
Halllandale ES		1000 SW 8st	Hallandale	33009		815	16,300	
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		800	32,000	
Lakeside Elementary School	3591	900 NW 136 Avenue	Pembroke Pines	33026	450	1,210	24,200	
Lauderdale Lakes Middle School		3911 NW 30th Avenue	Lauderdale Lakes	33309	450	0	0	900
Lauderhill Middle School		1901 NW 49th Avenue	Lauderhill	33313	450	0	0	900
Liberty Elementary	3821	2450 Banks	Margate	33063		815	16,300	
Lyons Creek Middle School	3101	4333 Sol Press Blvd	Coconut Creek	33073	500	1,790	35,800	
Manatee Bay Elementary	3831	19200 SW 36	Weston	33331		815	16,300	
Margate Middle School		500 NW 65th Avenue	Margate	33063	450	0	0	
McNichols Middle	481	1602 S 27th Avenue	Hollywood	33020		800	32,000	
Miramar E 6 E S		6831 SW 26th Street	Miramar	33023		0	0	
Miramar High School		3601 SW 89th Avenue	Miramar	33025	900	0	0	1,800
New Renaissance Middle	3671	10701 Miramar	Miramar	33025		2,430	48,600	
New River Middle	881	3100 Riverland Rd.,	Ft. Lauderdale	33312		800	32,000	
Panther Run Elementary School	3571	801 NW 172 Avenue	Pembroke Pines	33328	450	1,210	24,200	
Park Lake Elementary	3761	3925 N. State	Lauderdale Lakes	33309		1,210	24,200	

County Shelter Information

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)
Parkside Elementary School	3631	10257 NW 29th Street	Coral Springs	33065	450	890	17,800	
Park Trails Elementary		10700 Trails End	Parkland	33076		1,210	24,200	
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	941	651 NW 42nd Avenue	Ft. Lauderdale	33317	450	815	16,300	
Plantation Middle School		6600 W Sunrise Boulevard	Plantation	33313	400	0	0	800
Pompano Beach High School		1400 NE 6st	Pompano Beach	33060		1,800	36,000	
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	3701	2350 NW 19	Ft. Lauderdale	33311		2,400	48,000	
Seminole Middle School		6200 SW 16th Street	Plantation	33317	450	0	0	900
Silver Lakes Elementary School	3371	2300 SW 173 Avenue	Miramar	33027	400	1,210	24,200	
Silver Palms Elementary School	3371	1209 NW 155th Avenue	Pembroke Pines	33029	450	1,210	24,200	
Silver Shores Elementary	3581	1701 SW 160	Miramar	33027		815	16,300	
Silver Trails Middle School	3331	18300 Sheridan Street	Pembroke Pines	33331	500	1,790	35,800	
South Plantation High School		1300 Paladin Way	Plantation	33317	900	1,800	36,000	
Sunset Lakes Elementary	3661	18400 SW 25	Miramar	33027		1,210	24,200	
Sunset School	422	3775 SW 16th Ave	Ft. Lauderdale	33312		800	32,000	
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	3481	5400 Johnson Road	Coconut Creek	33073	450	1,210	24,200	
Watkins Elementary School	511	3520 NW 52nd Avenue	Hollywood	33023	450	815	16,300	
Western High School		1200 SW 136th Avenue	Ft. Lauderdale	33325	900	0	0	1,800
Westglades Middle	3611	11000 Holmb	Parkland	33026		900	36,000	
			TOTALS FOR BROWARD COUNTY		21,450	41,475	911,500	26,410

Year 2004	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	41,475	40,349	1,126	911,500	806,980	104,520	SURPLUS

County Shelter Information

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	
TOTALS FOR CALHOUN COUNTY					4,403	0	0	

Year 2004	Shelter Capacity in People	Shelter Demand in People	Surplus/ Deficit in People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Cateogry 4/5	0	1,395	-1,395	0	27,900	-27,900	DEFICIT

County Shelter Information

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)
Liberty ES		23000 Midway Blvd NE	Port Charlotte	33952	500	500	10,000	1,000
Port Charlotte MS		370 Atwater Street	Port Charlotte	39952	1,000	1,000	20,000	500
TOTALS FOR CHARLOTTE COUNTY					1,500	1,500	30,000	1,500

Year 2004	Shelter Capacity in People	Shelter Demand in People	Surplus/Deficit in People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/Deficit (ft2)	Result
Storm Cateogry 4/5	1,500	29,649	-28,149	30,000	592,980	-562,980	DEFICIT

County Shelter Information

CITRUS

Name	Bldg #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
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	600 West Highland Blvd	Inverness	34452	2,418	544	10,881	2,418
Citrus Springs Elementary School		3570 West Century Blvd	Citrus Springs	33443	1,500	0	0	1,500
Citrus Springs Middle School		150 W Citrus Springs Blvd	Citrus Springs	34434	1,224	0	0	1,224
First Assembly Church		4201 South Pleasant Grove Rd	Inverness	34451	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	34452	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	34453	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	34436	200	0	0	0
Floral City Elementary School		8457 E Marvin Street	Floral City	34446	543	0	0	543
Forest Ridge	1	2927 N. Forest Ridge Blvd	Hernando	34442		2,800	56,000	
Hernando Elementary School		2353 N Croft Avenue	Hernando	33442	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	34434	150	0	0	0
Inverness Middle School		1950 North US Highway 41	Inverness	34450	2,157	0	0	2,157
Inverness Primary School		206 South Lime Avenue	Inverness	34450	1,299	0	0	1,299
Lecanto High School		3810 W Education Path	Lecanto	34461	3,400	0	0	3,400
Lecanto Middle School		3800 W Education Path	Lecanto	34461	2,519	0	0	2,519
Main Street Baptist Church		960 S Highway 41	Inverness	N/A	400	0	0	0
Our Lady of Fatima		550 S Highway 41	Inverness	34450	400	0	0	0
Pleasant Grove Elementary		630 Pleasant Grove Road	Inverness	34452	1,500	0	0	600
Riverside Christian Church		7771 N Carl G. Rose Hwy	Hernando	34442	100	0	0	0
Rock Crusher Elementary		814 S Rock Crusher Road	Crystal River	33448	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	34450	100	0	0	0
V.F.W. Leroy Rokks		1930 S Highway 200	Hernando	N/A	200	0	0	0
Lecanto Primary School		3790 W Education Path	Lecanto	34461	1,869	0	0	1,869
School		1201 W Main Hwy 44 West	Inverness	34450	2,075	0	0	2,075
			TOTALS FOR CITRUS COUNTY		30,248	3,344	66,881	21,704

Year 2004	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	3,344	14,838	-11,494	66,881	296,760	-229,879	DEFICIT

County Shelter Information

CLAY

Name	Bldg #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Clay Hill Elementary School	5	6345 CR 218	Maxville	32234	200	263	5,260	
Clay High School		2025 SR 16 West	Gr Cove Springs	32043	500	0	0	500
C.E. Bennett Elementary School		1 South Oakridge Avenue	Gr Cove Springs	32043	397	0	0	397
Doctor's Inlet Elementary School		2634 SR 220	Doctor's Inlet	32030	200	0	0	200
Fleming Island High School	Cafeteria		Orange Park	32073	466	466	13,696	
Fleming Island Elementary School		4425 Lake Shore Drive	Orange Park	32073	200	0	0	200
Grove Park Elementary School		1643 Miller Street	Orange Park	32073	383	0	0	383
J.L. Wilkinson Jr. High School		5005 CR 218 West	Middleburg	32068	500	0	0	500
J.L. Wilkinson Elementary		4965 CR 218 West	Middleburg	32068	500	0	0	500
Keystone Heights High School		900 SW Orchid Avenue	Keystone Heights	32656	500	0	0	500
Keystone Heights Elementary School		335 South Pecan Street	Keystone Heights	32656	343	0	0	343
Lake Asbury Elementary School	6	2901 Sandridge Road	Gr Cove Springs	32043	500	265	5,300	
Lake Asbury Elementary School	7	2901 Sandridge Road	Gr Cove Springs	32043		265	5,300	
Lakeside Elementary School	6	2752 Moody Road	Orange Park	32073	399	263	5,260	
Lakeside Elementary School	7	2752 Moody Road	Orange Park	32073		263	5,260	
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	5,300	
Montclair Elementary School	5	2398 Moody Road	Orange Park	32073		265	5,300	
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		3065 Apalachicola Blvd	Middleburg	32068	395	395	7,900	
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
Tynes Elementary School	1/ cafetorium	1550 Tynes Boulevard	Middleburg	32068	350	0	0	350

County Shelter Information

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)
W.E. Cherry Elem School	1/ Cafetorium	420 Edson Avenue	Orange Park	32073	380	0	0	380
St. Johns River Community College	D	285 College Drive	Orange Park	32065	302	155	6,200	
St. Johns River Community College	V	285 College Drive	Orange Park	32065		147	5,880	
St. Johns River Community College	Thrasher	285 College Drive	Orange Park	32065	200	200	8,000	
			TOTALS FOR CLAY COUNTY		10,498	3,212	78,656	7,589

Year 2004	Shelter Capacity in People	Shelter Demand in People	Surplus/ Deficit in People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Cateogy 4/5	3,212	10,332	-7,120	78,656	206,640	-127,984	DEFICIT

County Shelter Information

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)
Baron Collier High School	Main/Café/Gym	5600 Cougar Lane	Naples	34105	3500	1,750	70,000	
Bethune Education Center		614 S 5th Street	Immokalee	34142	400	0	0	
Big Cypress Elementary	2	3250 Golden Gate Blvd	Naples	34116	250	400	8,000	
Calusia Park Elementary	Café& 4 clrms				250	500	10,000	
C.H.S.I.		14700 Immokalee Rd.	Big Corkscre	34120	50	0	0	
Collier County Agricultural Center		601 East Main Street	Immokalee	34142	100	0	0	
Collier PAC		1165 County Road 858	Naples	34120	800	0	0	
Corkscrew Middle School	Gym	419 First Street	Immokalee	34142	350	500	10,000	
Dr. MLK	Admim/ Gym	4095 18th Ave NE	Naples	34116	250	500	10,000	
Friendship House	Main		Immokalee	34142	50	250	5,000	
Golden Gate Elementary		4911 20th PL, SW	Naples	34116	375	1,500	30,000	
Golden Gate Middle		2701 48th Terr SW	Naples	34116	375	1,500	30,000	
Golden Terrace Elementary	Café/Gym	2711 44th Terrace SW	Naples	33999	500	400	8,000	
Gulf Coast High School	Gym	7878 Immokalee Blvd	Naples	34110	1,500	1,500	30,000	
Highlands Elementary School		1101 Lake Trafford Road	Immokalee	34142	700	0	0	
IFAS		Rt. 29	Immokalee	34142	100	0	0	
Immokalee Community Park		321 NE First Street	Immokalee	34112	100	0	0	
Immokalee Friendship House	Main	602 West Main Street	Immokalee	34112	500	0	0	
Immokalee Health Department/Center		419 N 1st Street	Immokalee	34142	50	0	0	
Immokalee High School		710 Immokalee Road	Immokalee	34142	600	0	0	
Immokalee Middle School	Café 8/9	3500 Lake Trafford Road	Immokalee	34142	1,000	1,000	20,000	
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	400	8,000	
Lely High	Gym	1 Lely High School Blvd	Naples	34113	500	1,000	20,000	
Manatee Elementary	Gym	1880 Manatee RD	Naples	34114	250	500	10,000	
Oak Ridge Middle School	Café 8/9	151 State Rd 951	Naples	33999	1,000	1,000	20,000	
Pine Ridge Middle School	Main	213 S 9th Street	Immokalee	34142	360	1,000	20,000	
Pinecrest Elementary School		1515 Pine Ridge Road	Naples	33942	1,000	0	0	

County Shelter Information

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)
Village Oaks Elementary School	Admin	1501 SR 29	Immokalee	34142	350	500	10,000	
Vineyards Elementary School	Café/Gym	6225 Arbor Boulevard	North Naples	34119	300	400	8,000	
TOTALS FOR COLLIER COUNTY					17,010	14,800	327,000	0

Year 2004	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	14,600	41,863	-27,263	327,000	837,260	-510,260	DEFICIT

County Shelter Information

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)
Berea Baptist Church		Hwy 47 South	Lake City	N/A		0	0	500
Columbia City School		Highway 47 South	Lake City	N/A		0	0	520
Columbia High School, North		Pennsylvannia Avenue	Lake City	N/A		0	0	250
Columbia High School, South		US 441 South	Lake City	N/A		0	0	300
Epiphany School		Malone Drive	Lake City	N/A		0	0	250
First Assembly of God		East Duval Street	Lake City	N/A		0	0	200
First Baptist Church		East Orange Street	Lake City	N/A		0	0	300
First Presbyterian Church		West Baya Avenue	Lake City	N/A		0	0	200
First Methodist Church		South Marion Street	Lake City	N/A		0	0	200
Five Points Elementary School		Laverne Avenue	Lake City	N/A		0	0	200
Fort White Public School	1	Highway 47 South	Lake City	N/A		365	7,301	250
Lake City Middle School		Grandview Avenue	Lake City	N/A		0	0	300
Lake City Recreation Center		McFarlane Avenue	Lake City	N/A		0	0	75
LDS (Mormon) Church		706 Country Club Road	Lake City	N/A		0	0	200
Lulu Community Center		US 100 East	Lulu	N/A		0	0	100
Mason City Community Center		US 41 South	Lake City	N/A		0	0	100
Masonic Lodge		McFarlane Avenue	Lake City	N/A		0	0	175
Melrose Elementary School		1500 East Putnam Street	Lake City	N/A		0	0	200
Niblack Elementary School		North Broadway Street	Lake City	N/A		0	0	200
Parkview Baptist Church		North 7th Street	Lake City	N/A		0	0	250
Richardson Recreation Center		Fronie Street	Lake City	N/A		0	0	200
Springville Community Center		Suwannee Valley Road	Lake City	N/A		0	0	200
Summers Elementary School		McFarlane Avenue	Lake City	N/A		0	0	300
Westside Elementary	1	Rt 12, Box 5300	Lake City	N/A		249	4,988	300
TOTALS FOR COLUMBIA COUNTY					0	614	12,289	5,770

Year 2004	Shelter Capacity In People	Shelter Demand In People	Surplus / Deficit in People	Shelter Capacity (ft2)	Shelte Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Cateogry 4/5	614	5,658	-5,044	12,289	113,160	-113,160	DEFICIT

County Shelter Information

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)
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	289	5,778	0
County Court House		115 East Oak Street	Arcadia	34266	0	0	0	168
County Library		125 North Hillsborough Avenue	Arcadia	34266	92	184	3,671	0
Turner Agri-Civic Center		2250 Northeast Roan Street	Arcadia	34266	1,523	1,523	30,460	0
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 Gym	Bldg E	420 E Gibson	Arcadia	34266		583	11,675	
DeSoto MS #B	Bldg B	420 E Gibson	Arcadia	34266		481	19,264	
DeSoto MS #c	Bldg C	420 E Gibson	Arcadia	34266		481	19,264	
DeSoto MS #D	Bldg D	420 E Gibson	Arcadia	34266		481	19,264	
First Presbyterian Church		209 West Hickory Street	Arcadia	34266	118	0	0	235
Memorial Elementary School	2B	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	7G	851 East Hickory Street	Arcadia	34266	107	0	0	213
Nocatee Elementary School #1	1	4846 SW Shore Avenue	Arcadia	34267	74	0	0	149
Pine Creek Chapel #1	1	1267 SW Pine Chapel Drive	Arcadia	34266	61	103	2,062	0
Seventh Day Adventist Church		2865 SE AMI Drive	Arcadia	34266	100	0	0	0
Turner Exhibit Conference Hall		2250 NE Roan	Arcadia	34266	120	120	2,400	
Trinity United Methodist #1	1	304 West Oak Street	Arcadia	33821	74	0	0	175
Trinity United Methodist #2	2	304 West Oak Street	Arcadia	33821	70	0	0	140
West Elementary School	14-B	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	13-A	304 West Imogene Avenue	Arcadia	34266	116	0	0	233
West Elementary School	15-C	304 West Imogene Avenue	Arcadia	34266	163	0	0	326
West Elementary School	18-F	304 West Imogene Avenue	Arcadia	34266	83	0	0	167
First Baptist Church		1006 North Brevard Avenue	Arcadia	34266	132	0	0	264
				TOTALS FOR DESOTO COUNTY	4,397	4,245	113,838	4,511

Year 2004	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	4,245	6,416	-2,171	113,838	128,320	-14,482	DEFICIT

County Shelter Information

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)
Anderson Elementary School		CR 349 South	Oldtown	32680	914	0	0	
Dixie County High School		Horseshoe Rd CR 351 S	Cross City	32628	542	0	0	
Old Town ES	2	County Road 55A & 349	Old town	32680		460	9,200	
Old Town ES	4	County Road 55A & 349	Old Town	32680		165	3,300	
Old Town ES	5	County Road 55A & 349	Old Town	32680		175	3,500	
Old Town Elementray		CR 55A	Old Town	32680	195	0	0	
Ruth Raines MS	1S	Horseshoe Road	Cross City	32628		332	6,640	
New Old Town MS	7					460	9,200	
				TOTALS FOR DIXIE COUNTY	1,651	1,592	31,840	0

Year 2004	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	1,592	2,679	-1,087	31,840	53,580	-21,740	DEFICIT

County Shelter Information

DUVAL								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
A. Robinson Elementary School		101 12th Street West	Jacksonville	N/A	0	848	16,960	518
Abess Park Elementary	main					958	19,160	
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	594
Arlington Middle School		8141 Lone Star Road	Jacksonville	N/A	0	0	0	400
Baldwin Jr/Sr High School		291 Mills Street	Jacksonville	N/A	578	0	0	578
Biltmore Elementary School		2101 Palm Avenue	Jacksonville	N/A	0	0	0	200
Brookview Elementary School		10450 Theresa Drive	Jacksonville	N/A	0	0	0	148
[illegible] School		2334 Butler Street	Jacksonville	N/A	0	0	0	700
Chets Creek Elementary School	main					958	19,160	
Chimney Lake Elementary School	Sect D&A	9353 Staples Mill Road	Jacksonville	N/A	1,000	995	19,900	1,000
Crown Point Elementary School		3800 Crown Point Road	Jacksonville	N/A	400	0	0	400
Crystal Springs Elementary School		1200 Hammond Boulevard	Jacksonville	N/A	600	995	19,900	1,000
D. Anderson School		2445 San Diego Road	Jacksonville	N/A	0	0	0	350
Edward White Sr High School		1700 Old Middleburg Road	Jacksonville	N/A	700	0	0	700
Englewood Sr. High School		4412 Barnes Road	Jacksonville	N/A	515	0	0	515
Enterprise Academy	main	8085 Old Middleburg Road	Jacksonville	N/A		1,433	57,320	200
Eugene Butler Middle School		900 Acorn Street	Jacksonville	N/A	0	0	0	342
First Coast High School		590 Duval Station Road	Jacksonville	N/A	1,000	0	0	1,000
Ft. Caroline Middle School		3757 Univeristy Club Blvd	Jacksonville	N/A	515	0	0	515
Garden City Elementary School		2814 Dunn Avenue	Jacksonville	N/A	0	0	0	146
Greenland Pines						770	15,400	
Highlands Middle School		10913 Pine Estate Road	Jacksonville	N/A	0	0	0	400
Hyde Park Elementary School		5300 Park Street	Jacksonville	N/A	0	0	0	200
J.E.B. Stuart Middle School		4815 Wesconnett Blvd	Jacksonville	N/A	0	0	0	242
School		7750 Tempest Street	Jacksonville	N/A	0	0	0	600
Jeff Davis Middle School		7050 Melvin Road	Jacksonville	N/A	0	0	0	400
Joseph Stilwell Middle School		7840 Burma Road	Jacksonville	N/A	0	0	0	578
Lake Lucina Elementary School		6527 Merrill Road	Jacksonville	N/A	0	0	0	269
Landmark Middle School		101 Kernan Road	Jacksonville	N/A	400	0	0	400
Landmark Middle School		101 Kernan Road	Jacksonville	N/A		0	0	0
LaVilla Middle School of the Arts		501 North Davis Street	Jacksonville	32202	2,467	2,467	49,340	0

County Shelter Information

DUVAL								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Mandarin Middle School	1#63-70	5100 Hood Road	Jacksonville	N/A	1,000	109	4,360	1,000
Mandarin Middle School		5100 Hood Road	Jacksonville	N/A		0	0	200
Mandarin Oaks Elementary School	Sect D&A	10600 Hornets Nest Road	Jacksonville	N/A	0	995	19,900	1,000
Mandrian High School		4831 Greenland Road	Jacksonville	N/A	0	0	0	1,000
N.B. Forrest Sr. High School		5530 Firestone Road	Jacksonville	N/A	808	0	0	808
Northshore Elementary School		5701 Silver Plaza	Jacksonville	N/A	200	0	0	378
Northwestern Middle School		2100 45th Street	Jacksonville	N/A	0	0	0	200
Oceanway Elementary School		143 Oceanway Avenue	Jacksonville	N/A	0	0	0	382
Paxon Sr. High School		3239 5th Street West	Jacksonville	N/A	0	0	0	695
Pine Estates Elementary School		10741 Pine Estates Road	Jacksonville	N/A	0	0	0	500
R.F. Kennedy Center		1033 Ionia Street	Jacksonville	N/A	0	0	0	272
R.F. Kennedy Center		1033 Ionia Street	Jacksonville	N/A		0	0	150
R.L. Brown Elementary School		1535 Milnor Street	Jacksonville	N/A	0	0	0	350
Raines Sr. High School		3663 Raines Avenue	Jacksonville	N/A	482	0	0	482
Ramona Elementary School		5540 Ramona Boulevard	Jacksonville	N/A	0	0	0	272
Robert E. Lee Sr High School		1200 McDuff Avenue S	Jacksonville	N/A	515	0	0	515
S.A. Hull Elementary School		7528 Hull Street	Jacksonville	N/A	0	0	0	500
Sable Palm Elementary School	Sect D&A	1201 Kernan Road	Jacksonville	N/A	0	995	19,900	1,000
San Jose Elementary School		5805 St. Augustine Road	Jacksonville	N/A	0	0	0	183
Sandalwood Jr./Sr. High School		2750 John Prom Boulevard	Jacksonville	N/A	1,362	0	0	1,362
Southside Middle School		2948 Knights Lane	Jacksonville	N/A	0	0	0	200
Spring Park Elementary School		2250 Spring Park	Jacksonville	N/A	0	0	0	500
Stanton College Prep School		1149 13th Street	Jacksonville	N/A	0	0	0	916
Terry Parker Sr. High School		7301 Parker School Road	Jacksonville	N/A	0	0	0	816
Twin Lakes Academy		10515 Baymeadows	Jacksonville	N/A		958	19,160	200
Wolfson Sr. High School		7000 Powers Avenue	Jacksonville	N/A	503	0	0	503
Woodland Acres Elementary School		328 Bowlan Street	Jacksonville	N/A	0	0	0	0

County Shelter Information

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 Surveyed)
TOTALS FOR DUVAL COUNTY					13,639	12,481	280,460	27,049

Year 2004	Shelter Capacity In People	Shelter Demand I People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	12,481	32,739	-20,258	280,460	654,780	-374,320	DEFICIT

County Shelter Information

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)
Bailey Middles	1	4110 Bauer Rd	Pensacola	32507	1000	448	8,969	
Bailey Middles	3	4110 Bauer Rd	Pensacola	32507		40	798	
Bailey Middles	6	4110 Bauer Rd	Pensacola	32507		548	10,958	
Bailey Middles	7	4110 Bauer Rd	Pensacola	32507		298	5,951	
Bailey Middles	8	4110 Bauer Rd	Pensacola	32507		302	6,046	
Bellview Assembly of God		2920 W. Michigan Avenue	Pensacola	32526	615	0	0	
Bellview Baptist Church		4750 Saufley Rd	Pensacola	32526	480	0	0	
Bellview Elementary School	4	4425 Bellview Avenue	Pensacola	32506	500	0	0	
Bellview Elementary School	2001add/5	4425 Bellview Avenue	Pensacola	32506		309	6,179	
Bellview Middle School[1]		6201 Mobile Highway	Pensacola	32506	750	0	0	
Beulah Elementary	2000 add	3201 Helms Rd	Beulah	32526		352	7,040	
Beulah Elementary School	Main	6201 Helms Road	Pensacola	32506	500	0	0	1,439
Blue Angel Elementary	cafeteria	1551 Dog Track Rd	Pensacola	32507		421	8,424	
Blue Angel Elementary	Main	1551 Dog Track Rd	Pensacola	32507		1,848	36,968	
Brownsville Middle School[1]		3700 West Avery Street	Pensacola	32503	750	0	0	
Carver Middle School[1]		700 E Hecker Road	Century	32525	500	0	0	
Century Carver Middle	7 (2003)	440 East Hecker Road	Century	32535		327	10,947	
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		7650 Highway 97	Walnut Hill	32568	500	0	0	
Faith Baptist Church		3600 Creighton Rd	Pensacola	32504	80	0	0	
Ferrypass Middle	4	8355 Yancey Ave	Pensacola	32514		310	6,211	
Ferrypass Elementary	5/ 2001 add	8310 North Davis Hwy	Pensacola	32514		252	5,128	
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	6	1051 Highway 95A North	Cantonment	32533	500	0	0	
K-5 Molino	1	6450 Hwy 95A North	Molino	32577		852	17,039	
Liberty Church		2221 S. Blue Angel Pkwy	Pensacola	32506	160	0	0	
Lipscomb Elementary School	1	10200 Ashton Brosnaham Dr	Pensacola	32504	1,000	2,045	40,904	
Longleaf Elementary	2/2000 add	2600 Longleaf Dr	Pensacola	32526		392	7,845	

County Shelter Information

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)
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	8 (2002)	1050 Gulf Beach Hwy	Pensacola	32507	0	228	4,576	
Northview High School		4100 West Hwy 4	Century	32535		0	0	
Northview High School	Gym	4100 West Highway 4	Century	32525	1,500	764	15,280	
Pensacola Civic Center	under arena	201 East Gregory St	Pensacola	32501	0	4,341	86,820	
Pensacola Junior College	Bldg 3/Sports	1000 College Avenue	Pensacola	32514	350	271	10,853	
Pensacola Junior College	Main	1000 College Avenue	Pensacola	32514		0	0	
Ransom Middle School		1000 West Kingsfield	Cantonment	32533	1,000	0	0	
Saufley Field		Saufley Field	Pensacola	32526	0	0	0	1,725
Scenic Heights Elementary School		3801 Cherry Laurel Drive	Pensacola	32514	350	0	0	
Scenic Hills Church		1295 E. Nine Mile Rd	Pensacola	32514	180	0	0	
Sherwood Elementary	10/2001 add	501 Cherokee Trail	Pensacola	32506		212	4,236	
St. Christopher		3200 North 12th Aven	Pensacola	32503	13	0	0	
Tate High School	39/ cafeteria	1771 Tate Rd	Pensacola	32560		514	10,275	
Tate High School	38/ gym	1771 Tate Road	Pensacola	32560	1,250	0	0	
University of West Florida	Bldg 13	11000 University Parkway	Pensacola	32514		389	7,773	
Warrington Middle School		450 South Old Corry Road	Pensacola	32507	600	0	0	
Washington High School		6000 College Road	Pensacola	32504	2,000	0	0	
West Florida HS- (former Beggs Voc- B1)	25	2404 Longleaf Drive	Pensacola	32506		650	12,993	
West Florida HS- (former Beggs Voc- B2)	26	2404 Longleaf Drive	Pensacola	32506		305	6,096	
West Pensacola Elementary	2000 add	801 North 49th Ave	Pensacola	32506		124	2,470	
Woodham High School		150 East Burgess Road	Pensacola	32504	2,000	0	0	
Workman Middle	7	6299 Lanier Dr	Pensacola	32504		286	5,720	
			TOTALS FOR ESCAMBIA COUNTY		10,451	16,827	346,499	3,164

Year 2004	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	16,827	15,314	1,513		346,499	30,266	316,234	SURPLUS

County Shelter Information

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)
Buddy Taylor Middle School	Main	4500 Belle Terre Parkway	Palm Coast	32137	1,000	2,330	46,600	
Buddy Taylor Middle School		4500 Belle Terre Parkway	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 Parkway	Palm Coast	32137	1,000	0	0	1,355
L. E. Wadsworth Elementary	400	4550 Belle Terre Parkway	Palm Coast	32135	1,000	128	2,558	
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	697	13,940	
Palm Coast High School	700	3265 East Highway 100	Bunnell	32110		556	11,120	
Palm Coast High School	800	3265 East Highway 100	Bunnell	32110		556	11,120	
			TOTALS FOR FLAGLER COUNTY		7,000	4,267	85,338	1,355

Year 2004	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	4,267	6,668	-2,401	85,338	133,360	-48,022	DEFICIT

County Shelter Information

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)
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		155 Ave E	Apalachicola	32320	450	0	0	450
Church of God		1400 Tallahassee Street	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
			TOTALS FOR FRANKLIN COUNTY		2,360	0	0	2,410

Year 2004	Shelter Capacity in People	Shelter Demand in People	Surplus/ Deficit in People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft20	Result
Storm Category 4/5	0	185	-185	0	3,700	-3,700	DEFICIT

County Shelter Information

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)
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
School		335 Maple Street	Chattahoochee	32324	250	0	0	250
Chattahoochee High School		Street	Chattahoochee	32324	170	0	0	180
Church		425 Main Street	Chattahoochee	32324	125	0	0	125
Florida State Hospital		Highway 90	Chattahoochee	32324	200	0	0	200
Church		Wire Road	Chattahoochee	32324	200	0	0	200
Gadsden High School	300	27001 Blue Star	Havana	32333	500	699	13,987	
Gadsden High School	400	Memorial Hwy	Havana	32333		1,194	23,875	
Gadsden High School	800	Memorial Hwy	Havana	32333		560	11,198	
Gadsden Voc-Tech School		201 MLK Boulevard	Quincy	32351	200	0	0	200
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					400	8,000	
Havana Elementary School		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	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	2,853	57,060	5,325

County Shelter Information

GADSDEN								
Name	Bldg #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Year 2004		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		2,853	3,904	-1,051	57,060	78,080	-21,020	DEFICIT

County Shelter Information

GILCHRIST								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Bell Elementary School-Bldg.5/Cafetorium	5	NW 10th Street	Bell	32619	492	492	9,840	
Bell High School - Bldg. 14/Classroom	14	930 South Main Street	Bell	32619	305	305	6,100	
Bell High School - Bldg. 16/Multi-Purpose	16	930 South Main Street	Bell	32619	467	467	9,340	
Bell High School -Bldg. 20/Health Academy	20	930 South Main Street	Bell	32619	253	127	5,060	
Trenton High School - Bldg. 27/Classroom	27	1013 North Main Street	Trenton	32693	342	342	6,840	
Trenton High School - Bldg. 28/Classroom	28	1013 North Main Street	Trenton	32963	455	455	9,100	
Trenton High School - Bldg. 30/Multi-purpose	30	1013 North Main Street	Trenton	32963	278	278	5,560	
Trenton High School - Bldg. 34/New Gym	34	1013 North Main Street	Trenton	32963	432	432	8,640	
Trenton Elementary School - Bldg.2/Cafetoriur	2	1350SWSR26	Trenton	32693	492	492	9,840	
TOTALS FOR GILCHRIST COUNTY					3,516	3,390	70,320	0

Year 2004	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	3,390	2,066	1,324	70,320	41,320	29,000	SURPLUS

County Shelter Information

GLADES								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
American Legion Hall		US Highway 27	Moore Haven	N/A	0	0	0	
Buckhead Ridge Community Center I & II		Highway 78	Buckhead Ridge	N/A	0	0	0	
Buckhead Ridge V.F.W.		Highway 78	Buckhead Ridge	N/A	0	0	0	
Doyle Conner Agricultural Center		US Highway 27	Moore Haven	33471	600	0	0	
Glades County Public Health		US Highway 27	Moore Haven	33471	0	0	0	25
Lake Port Community Center		Rte 2 Box 47A	Lakeport	33471	100	0	0	
Maple Grove Baptist Church		120 East State Rd 78 W	Lakeport	33471	344	343	6,854	
Moore Haven Elementary School		US Highway 27	Moore Haven	N/A	150	0	0	
Moore Haven High School		US Highway 27	Moore Haven	N/A	0	0	0	
Muse Community Center/Volunteer Fire Dept		SR 720 & Rainbow Blvd	Muse	33935	144	144	2,880	
Muse Community Center (new)		Loblolly Road	Muse	33935	252	0	0	
Ortona Volunteer Fire Department		Ortona Locks Road	Ortona	N/A	0	0	0	
Palmdale Community Center		US Highway 27	Palmdale	N/A	0	0	0	
VFW						120	2,400	
TOTALS FOR GLADES COUNTY					1,590	607	12,134	25

Year 2004	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	607	5,900	-5,293	12,134	118,000	-105,866	DEFICIT

County Shelter Information

GULF								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Port St. Joe Cennential Building		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		754 East River Road	Wewahitchka	32465	904	0	0	
Wewahitchika Comm. Bldg			Wewahitchka	32465		10	600	
TOTALS FOR GULF COUNTY					1,531	10	600	0

Year 2004	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Cateogry 4/5	10	846	-836	600	16,920	-16,320	DEFICIT

County Shelter Information

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)
Central Hamilton Elementary School	Kinder.	Route 2, Box 136	Jasper	32052		119	2,371	
Greenwood School	3	US 41 North	Jasper	32052		119	2,371	
Hamilton County High School		Route 2, Box 137	Jasper	32052		0	0	
North Hamilton Elementray School	2	1291 Florida Street	Jennings	32053		119	2,371	
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					144	2,880	
TOTALS FOR HAMILTON COUNTY					0	501	9,993	

Year 2004	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	501	1,455	-954	9,993	29,100	-19,107	DEFICIT

County Shelter Information

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)
Bowling Elementary School		4530South Church Street	Bowling Green	33834	750	147	2,938	750
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. Av	Wauchula	33873	120	0	0	120
North Wauchula Elementary School		1120 North Florida Avenue	Wauchula	33873	1,500	147	2,938	1,500
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 School		3215 Schoolhouse Road	Zolfo Springs	N/A	800	220	4,407	800
Wauchula ES	ESE/06	400 South Florida Avenue	Wauchula	33873	605	605	12,100	
Wauchula ES	05/media	400 South Florida Avenue	Wauchula	33873	148	148	2,963	
TOTALS FOR HARDEE COUNTY					8,923	1,267	25,346	8,170

Year 2004	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	1,267	9,655	-8,388	25,346	193,100	-167,754	DEFICIT

County Shelter Information

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)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Clewiston Central Elementary School	Café	1000 South Dean Duff Ave	Clewiston	33440	293	365	7,290	553
Clewiston Eastside Elementary School		201 West Arroyo Avenue	Clewiston	33440	0	0	0	
Clewiston High School	8	1501 South Francisco	Clewiston	33440	717	500	10,000	1,077
Clewiston High School	10	1501 South Francisco	Clewiston	33440		337	6,730	
Clewiston Middle School	Gym	601 West Osceola	Clewiston	33440	442	500	10,000	163
Clewiston Middle School	27	601 West Osceola	Clewiston	33440		163	3,264	
Clewiston Westside Elementary School	West	205 West Arroyo Avenue	Clewiston	33440	157	235	4,704	511
Country Oaks Elementary School	1	2025 NW Eucalyptus Blvd	LaBelle	33935	178	267	5,343	267
Edward A Upthegrove Elementray School		280 North Main Street	LaBelle	33935		0	0	0
Felda Community Center		1050 CR 830	Felda	33930	71	0	0	106
Hendry County Health Department		1140 Pratt Boulevard	LaBelle	33935		0	0	0
Harlem Community Civic Auditorium		2000 7th Street	Clewiston	33440	122	0	0	183
John Boy Auditorium	Beardsly Rm	1300 South WC Owens Ave	Clewiston	33440	175	39	1,564	263
LaBelle Civic Center		400 Hickpochee Avenue	LaBelle	33935	209	0	0	313
LaBelle Elementary School	5	West Cowboy Way	LaBelle	33935	188	282	5,630	282
LaBelle High School	3	4050 East Cowboy Way	LaBelle	33935	909	371	7,425	1,363
LaBelle High School	2	4050 East Cowboy Way	LaBelle	33935		282	5,630	
LaBelle Middle School	Gym	West Cowboy Way	LaBelle	33935	333	500	10,000	
Pioneer Plantation Community Center		Panama Drive	Clewiston	33440	80	120	2,400	120
VFW Post 10100						43	1,725	
			TOTALS FOR HENDRY COUNTY		3,874	4,004	81,705	5,201

Year 2004	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	4,004	6222	-2,218	81,705	124440	-42,735	DEFICIT

County Shelter Information

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)
Brooksville Elementary School - Bldg. 8H	8H	250 East Kelly Street	Brooksville	34601	4,829	241	4,829	4,829
Brooksville Elementary School - Bldg. 2B	2B	250 East Kelly Street	Brooksville	34601	14,185	709	14,185	14,185
Central High School - Bldg. 5E	5e	14075 Ken Austin Parkwa	Brooksville	34602	7,140	0	0	7,140
Central High School - Bldg. 3C	3c	14075 Ken Austin Parkwa	Brooksville	34602	10,091	0	0	10,091
Christ Lutheran Church - Bldg. 1	1	475 West North Avenue	Brooksville	34601	2,584	0	0	2,584
Chocachatti Elementary School - Bldg. 3	3	4135 California Street	Brooksville	34609	7,279	0	0	7,279
Chocachatti Elementary School - Bldg. 4	4	4135 California Street	Brooksville	34609	5,603	280	5,603	5,603
Chocachatti Elementary School - Bldg. 5	5	4135 California Street	Brooksville	34609	5,836	292	5,836	5,836
Deltona Elementary School - Bldg. 500	500	2055 Deltona Boulevard	Springhill	N/A	3,917	0	0	3,917
Deltona Elementary School - Bldg. 400	400	2055 Deltona Boulevard	Springhill	N/A	5,765	288	5,765	5,765
Deltona Elementary School - Bldg. 300	300	2055 Deltona Boulevard	Springhill	N/A	8,157	408	8,157	8,157
Eastside Elementary School - Bldg. 600	600	2715 Roper Drive	Springhill	34602	2,774	0	0	2,774
Eastside Elementary School - Bldg. 800	800	2715 Roper Drive	Springhill	34602	7,957	0	0	7,957
Eastside Elementary School - Bldg. 900	900	2715 Roper Drive	Springhill	34602	7,072	0	0	7,072
First United Methodist Church - Bldg. 1	1	109 South Broad Street	Brooksville	34601	3,145	0	0	3,145
Fox Chapel Middle School - Bldg. 300	300	9412 Fox Chapel Lane	Springhill	34609	6,055	303	6,055	6,055
Fox Chapel Middle School - Bldg. 600	600	9412 Fox Chapel Lane	Springhill	34609	7,879	0	0	7,879
Hernando High School- Bldg 15	15	200 East Kelly Street	Brooksville	34601		126	2,528	
Hernando High School - Bldg. 17	17	200 East Kelly Street	Brooksville	34601	4,054	0	0	4,054
Hernando High School - Bldg. 25	25	200 East Kelly Street	Brooksville	34601	10,659	0	0	10,659
Hernando High School - Bldg. 26	26	200 East Kelly Street	Brooksville	34601	6,338	0	0	6,338
J.D. Floyd Elementary School - Bldg. 900	900	3139 Dumont Avenue	Springhill	34609	5,616	0	0	5,616
Knights of Columbus - Bldg. 1	1	10470 Spring Hill Drive	Springhill	N/A	4,467	0	0	4,467
Masarytown Community Center - Bldg. 1	1	539 Lincoln Avenue	Masarytown	34609	3,825	0	0	3,825
Moton School Center - Bldg. 400	400	7175 Emerson Road	Brooksville	34601	5,283	264	5,283	5,283
Moton School Center - Bldg. 500	500	7175 Emerson Road	Brooksville	34601	5,865	293	5,865	5,865
Nature Coast Tech High						263	10,500	
Parrot Middle School - Bldg. 2	2	19220 Youth Drive	Brooksville	34601	8,010	0	0	8,010
Parrot Middle School - Bldg. 3	3	19220 Youth Drive	Brooksville	34601	9,710	0	0	9,710
Pasco/Hernando Community College - Bldg. 1A	1a	11415 Ponce de Leon Blv	Brooksville	34601	1,102	0	0	1,102
Pinegrove Elementary School - Bldg. 7	7	14411 Ken Dustin Parkwa	Brooksville	34613	4,570	0	0	4,570
Pinegrove Elementary School - Bldg. 8	8	14411 Ken Dustin Parkwa	Brooksville	34613	4,570	0	0	4,570
Pinegrove Elementary School - Bldg. 9	9	14411 Ken Dustin Parkwa	Brooksville	34613	5,252	0	0	5,252
Powell Middle School - Bldg. 400	400	14400 Powell Road	Brooksville	N/A	4,233	0	0	4,233
Powell Middle School - Bldg. 500	500	14400 Powell Road	Brooksville	N/A	4,515	0	0	4,515
Powell Middle School - Bldg. 1000	1000	14400 Powell Road	Brooksville	N/A	8,150	0	0	8,150

County Shelter Information

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)
Ridge Manor Community Center - Bldg. 1	1	Cortez Boulevard	Brooksville	34204	2,143	0	0	2,143
Spring Hill Elementary School - Bldg. 100	100	6000 Roble	Springhill	34608	2,754	0	0	2,754
Spring Hill Elementary School - Bldg. 900	900	6000 Roble	Springhill	34608	6,589	0	0	6,589
Springstead High School - Bldg. 1c	1c	2300 Maniner Boulevard	Springhill	N/A	5,440	0	0	5,440
Springstead High School - Bldg. 1g	1G	2300 Maniner Boulevard	Springhill	N/A	9,701	164	3,277	9,701
Springstead High School - Bldg. 12	12	2300 Maniner Boulevard	Springhill	N/A	7,125	0	0	7,125
Suncoast Elementary School - Bldg. 100		11135 Quality Drive	Springhill	34609	1,862	0	0	1,862
Suncoast Elementary School - Bldg. 500	500	11135 Quality Drive	Springhill	34609	4,902	0	0	4,902
West Hernando Middle School - Bldg. 300	300	9412 Fox Chapel Lane	Springhill	N/A	11,092	0	0	11,092
West Hernando Middle School - Bldg. 400	400	9412 Fox Chapel Lane	Springhill	N/A	11,010	0	0	11,010
West Hernando Middle School - Bldg. 600	600	9412 Fox Chapel Lane	Springhill	N/A	6,647	166	6,647	6,647
West Hernando Middle School - Bldg. 800	800	9412 Fox Chapel Lane	Springhill	N/A	11,050	553	11,050	11,050
Westside Elementary School - Bldg. 4	4	5400 Applegate Drive	Springhill	34606	7,990	0	0	7,990
			TOTALS FOR HERNANDO COUNTY		294,792	4,350	95,580	294,792

Year 2004	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	4,350	17,320	-12,970	95,580	346,400	-250,820	DEFICIT

County Shelter Information

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)
Apostolic Church of Jesus		956Carolina Avenue	Avon Park	33825	107	0	0	107
Agri-Civic Center		4505 George Blvd	Sebring		506	0	0	
Avon Park Elementary School	Cafeteria	705 West Winthrop	Avon Park	33825	165	534	10,680	83
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		430	8,600	0
Avon Park Recreation		207 East State St	Avon Park	33825	602	652	13,040	0
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		1910 South Highlands Ave	Sebring	33870	205	0	0	103
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	Cafeteria	3514 Kenilworth Boulevard	Sebring	33870	1,260	534	10,680	630
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		600 West College Dr	Avon Park	33825	680	334	6,680	0
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	718 Fielder Boulevard	Sebring	33870	180	534	10,680	90

County Shelter Information

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)
TOTALS FOR HIGHLANDS COUNTY					12,855	3,018	60,360	5,671

Year 2004	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	3,018	22245	-19,227	60,360	444900	-384,540	DEFICIT

County Shelter Information

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 Surveyed)
Adams Middle	Gym	10201 N Boulevard	Tampa	33612	1,100	800	16,800	
Benito Middle	2	10101 Cross Creek Blvd	Tampa	33647		896	17,920	
Benito Middle	3	10101 Cross Creek Blvd	Tampa	33647		758	15,160	
Benito Middle	6	10101 Cross Creek Blvd	Tampa	33647		1,133	22,660	
Benito Middle		10101 Cross Creek Blvd	Tampa	33647	2,790	0	0	
Bevis Elementary	2	5720 Osprey Ridge Dr	Lithia	33547	5,000	813	16,250	
Bevis Elementary	3	5720 Osprey Ridge Dr	Lithia	33547		705	14,100	
Bloomingdale High	13	1700 E. Bloomingdale Ave	Valrico	33594	7,200	1,308	26,160	
Bryant ES (Bevis Clone)	2	13910 Nine Eagles Road	Tampa	33626		813	16,250	
Bryant ES (Bevis Clone)	3	13910 Nine Eagles Road	Tampa	33626		705	14,100	
Burnett Middle	A	1010 N. Kingsway Rd	Seffner	33584	2,600	740	14,800	
Burnett Middle	E	1010 N. Kingsway Rd	Seffner	33584		203	4,060	
Burnettt Middle	C	1010 N. Kingsway Rd	Seffner	33584		450	9,000	
Chiles Elementary	2	16541 Tampa Palms Blvd	Tampa	33647	2,168	603	12,065	
Chiles Elementary	3	16541 Tampa Palms Blvd	Tampa	33647		507	10,148	
Chiles Elementary	4	16541 Tampa Palms Blvd	Tampa	33647		0	0	
Church Of Jesus Christ LDS		8020 Gunn Hwy	Tampa	33626	2,000	0	0	
Cimino ES (Pride ES clone)	2	4329 Culbreath Road	Valrico	33594		825	16,500	
Cimino ES (Pride ES clone)	3	4329 Culbreath Road	Valrico	33594		899	17,975	
Crestwood ES	13	7824 N Manhattan Ave	Tampa	33614	19,950	995	19,900	
Cypress Creek Elementary		4040 19th Ave N.E.	Ruskin	33570	1,295	0	0	
Durant High	1	4748 Cougar Path	Plant City	33567	4,500	348	6,960	
Durant High	2	4748 Cougar Path	Plant City	33567		887	17,740	
Durant High	3	4748 Cougar Path	Plant City	33567		483	9,660	
Durant High	4	4748 Cougar Path	Plant City	33567		175	3,500	
Durant High	5	4748 Cougar Path	Plant City	33567		377	7,540	
Durant High	6	4748 Cougar Path	Plant City	33567		416	8,320	
Durant High	7	4748 Cougar Path	Plant City	33567		847	16,940	
Elementary "U"					2,100	1,500	30,000	
Erwin Technical Center		2010 E. Hillsborough Ave	Tampa	33610		750	30,000	750
Essrig Elementary		13031 Lynn Rd	Tampa	33624	1,250	121	2,420	
Franklin Middle	Gym	3915 E. 21st	Tampa	33605	1,100	800	16,000	
Gaither High		16200 N. Dale Mabry Hwy	Tampa	33618	7,200	218	4,360	
Good Samaritan Mission		1492 Balm Wimauma Rd	Wimauma	33598	325	200	4,000	
Greco Middle	Gym	6925 E. Fowler	Temple Terrace	33617	1100	800	16,000	

County Shelter Information

HILLSBOROUGH								
Heritage Elementary		Cross Creek	Tampa	33647	1783	1,735	34,700	
Ippolito ES (Chiles ES clone)	2	6874 South Faulkenburg Rd	Riverview	33569		468	9,365	
Ippolito ES (Chiles ES clone)	3	6874 South Faulkenburg Rd	Riverview	33569		507	10,148	
Jennnings Middle			Thonotosass	33592	2060	1,500	30,000	
Lake Magdelene ES	14	2002 Pine La	Tampa	33612	1200	455	9,100	
Limona ES	9	1115 TelFair	Brandon	3350	2025	184	3,680	
Lockhart Elementary	2	3719 N. 17th St	Tampa	33610	308	308	6,160	
Lockhart Elementary	5	3719 N. 17th St	Tampa	33610	408	408	8,160	
Marshall Middle	12	18 S Maryland Avenue	Plant City	33563		509	10,180	
McDonald Elementary		501 W. Pruett Rd	Seffner	33584	1,158	0	0	
McKitrick Elementary	2	5503 Lutz Lake Fern Rd	Lutz	33549	1,375	719	14,370	
McKitrick Elementary	3	5503 Lutz Lake Fern Rd	Lutz	33549		473	9,462	
McKitrick Elementary	4	5503 Lutz Lake Fern Rd	Lutz	33549		0	0	
McLane MS	20	306 N. Knight	Brandon	33610	3,130	1,071	21,420	
Memorial Middles	6	4702 Central Avenue	Tampa	33603		332	6,640	
Memorial MS	Gym	4702 N. Cent	Tampa	33603	116	800	16,000	
Middleton High School	2	4801 North 22nd Street	Tampa	33610	5,000	750	15,000	
Middleton High School	3	4801 North 22nd Street	Tampa	33610		750	15,000	
Middleton High School		4801 North 22nd Street	Tampa	33610	5,000	3,115	62,300	
Muller Elementary School						1,500	30,000	
Mulrennan Middle		Durant Rd	Durant	33547	6,000	2,250	45,000	
Nelson Elementary		Durant Rd	Durant	33547	2,168	1,910	38,200	
Newson High		Fish Hawk Bldv	Lithia	33547	10,000	2,500	50,000	
North County Career Center			Tampa	33612	3,500	1,500	30,000	
Orange Grove Magnet		3415 N. 16th St	Tampa	33605	1,155	340	6,800	
Pizzo ES	2	11701 Bull Run	Tampa	33617		710	14,200	
Pizzo ES	3	11701 Bull Run	Tampa	33617		710	14,200	
Pizzo ES	4	11701 Bull Run	Tampa	33617		710	14,200	
Plant City High	18	1 Raider Pl	Plant City	33566	6,500	545	10,900	
Pride Elementary	3	18271 Kinnan St	Tampa	33647	2,500	2,325	16,500	
Pride Elementary	4	18271 Kinnan St	Tampa	33647		899	17,975	
Randall Middle	1	16510 Fish Hawk Blvd	Lithia	33547	5,500	1,785	35,700	
Randall Middle	3	16510 Fish Hawk Blvd	Lithia	33547		1,273	25,460	
Riverview High	5	11311 Boyette Rd	Riverview	33569	2,250	872	17,440	
Riverview High		11311 Boyette Rd	Riverview	33569	4,837	687	13,740	
Riverview High, Building #10	10	11311 Boyette Rd	Riverview	33569		350	7,000	
Robinson ES	12	4801 S Turkey Creek Rd	Plant City	33567	563	563	11,260	
Robles ES	15	4405 E Sligh Ave	Tampa	33610	351	351	7,020	
Robles ES	16	4405 E Sligh Ave	Tampa	33610	171	171	3,420	
Rodgers Middle	1	11910 Tucker Rd	Riverview	33569	1,667	1,667	33,340	
Rodgers Middle	1	11910 Tucker Rd	Riverview	33569	1,667	0	0	

County Shelter Information

HILLSBOROUGH								
Rodgers Middle	2	11910 Tucker Rd	Riverview	33569	510	510	10,200	
Schmidt Elementary		2105 W. Win	Brandon	33510	2,659	1,500	30,000	
Sickles High	2	7950 Gunn Hwy	Tampa	33626	4,000	280	5,600	
Sickles High	3	7950 Gunn Hwy	Tampa	33626		218	4,360	
Sickles High	7	7950 Gunn Hwy	Tampa	33626		572	11,440	
Sligh MS	15	2011 E Sligh Ave	Tampa	33610	510	589	11,780	
Springhead ES	14				513	513	10,260	
Sulphur Springs ES	1				1534	1,534	30,680	
Symmes ES	3	6280 Watson Road	Riverview	33569	826	1,484	29,688	
Symmes ES	4	6280 Watson Road	Riverview	33569	784	1,437	28,746	
Symmes ES	5	6280 Watson Road	Riverview	33569		0	0	
Tomlin Middle	6	501 N Woodrow Wilson	Plant City	33567		573	11,460	
Turkey Creek Middle	8	5005 S Turkey Creek Road	Plant City	33567		603	12,060	
USF Sun Dome		4202 E. Fowler Ave	Tampa	33620		1,000	40,000	900
Valrico ES	3 (1st flr)				423	423	8,460	
Valrico ES	4 (1st flr)				480	480	9,600	
Walker Middle	2	8282 N. Mobley Rd	Odessa	33556	2404	1,734	34,680	
Walker Middle	3	8282 N. Mobley Rd	Odessa	33556	2,404	952	19,040	
Wharton High	2	20150 Bruce B. Downs Blvd	Tampa	33647		1,292	25,840	
Wharton High	3	20150 Bruce B. Downs Blvd	Tampa	33647		1,102	22,040	
Wharton High	4	20150 Bruce B. Downs Blvd	Tampa	33647	4,000	1,454	29,080	
Wharton High	9	20150 Bruce B. Downs Blvd	Tampa	33647		628	12,560	
Williams MS	2	5020 N. 47th	Tampa	33610	3535	650	13,000	
Wilson Es	3	702 W English St	Plant City	33566	721	721	14,420	
Young MS	8	1807 E Martin Luther	Tampa	33610	527	527	10,540	
			TOTALS FOR HILLSBOROUGH COUNTY		155,900	79,553	1,596,862	1,650

Year 2004	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	79,553	132670	-53,117	1,596,862	2653400	-1,056,538	DEFICIT

County Shelter Information

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)
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 County Agricultural Center		Rt 1 Box 408 Hwy 90 E	Bonifay	32425	436	0	0	0
Holmes High School		825 West Hwy 90	Bonifay	32425	942	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
Popular Springs High School		3720 Tillman Road	Graceville	32440		850	33,832	
TOTALS FOR HOLMES COUNTY					4,349	850	33,832	356

Year 2004	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	850	1,415	-565	33,832	28,300	5,532	DEFICIT

County Shelter Information

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)
Fellsmere Elementary School	700	50 North Cypress Street	Fellsmere	32948	166	570	11,394	
Gifford Middle School	600	2726 45th Street	Vero Beach	32967	313	159	3,181	
Gifford Middle School	1200	2726 45th Street	Vero Beach	32967		168	3,364	
Highlands Elementary School		500 20th Street W	Vero Beach	32962	139	0	0	980
J. A. Thompson Elementary School	MultPur.	1110 18th Avenue SW	Vero Beach	32962	145	61	1,224	1,214
Oslo Middle School	200	480 20th Street SW	Vero Beach	32962	580	579	11,589	
Oslo Middle School	500	480 20th Street SW	Vero Beach	32962		158	3,162	
Oslo Middle School	600	480 20th Street SW	Vero Beach	32962		243	4,857	
Oslo Middle School	700	480 20th Street SW	Vero Beach	32962		579	11,590	
Oslo Middle School	900	480 20th Street SW	Vero Beach	32962		580	11,601	
Pelican Island Elementary School	MultPur.	1355 Schumann Drive	Sebastian	32958	194	61	1,224	1,130
Sebastian Elementary School	900	400 CR 512	Sebastian	32958	148	215	4,309	1,277
Sebastian River Middle School	All	9400 CR 512	Sebastian	32968	461	1,499	29,971	
Vero Beach High School		1707 16th Street	Vero Beach	32960	693	0	0	929
Vero Beach High School Learning Center	All	1507 19th Street	Vero Beach	32960	468	1,499	29,971	
Sebastian River High School	A	9001 90th Avenue	Sebastian	32958	1,446	138	6,068	
Sebastian River High School	C	9001 90th Avenue	Sebastian	32958		108	4,342	
Sebastian River High School	F	9001 90th Avenue	Sebastian	32958		72	2,893	
Sebastian River High School	G	9001 90th Avenue	Sebastian	32958		54	2,179	
Sebastian River High School	J	9001 90th Avenue	Sebastian	32958		144	5,775	
Sebastian River High School	K	9001 90th Avenue	Sebastian	32958		93	3,701	
Sebastian River High School	L	9001 90th Avenue	Sebastian	32958		41	1,667	
Sebastian River High School	M	9001 90th Avenue	Sebastian	32958		149	5,969	
Sebastian River High School	N	9001 90th Avenue	Sebastian	32958		48	1,938	
Sebastian River High School	V	9001 90th Avenue	Sebastian	32958		161	6,474	
Sebastian Senior Center	Center					140	2,800	
TOTALS FOR INDIAN RIVER COUNTY					4,753	7,521	171,243	5,530

Year 2004	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	7,521	6800	721	171,243	136000	35,243	SURPLUS

County Shelter Information

JACKSON								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft^3) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
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 77	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	7,082	
new Marianna High School	Area B	Caverns RD	Marianna	32448		1,429	28,582	
new Marianna High School	Area C	Caverns RD	Marianna	32448		284	5,683	
new Marianna High School	Area D/D1	Caverns RD	Marianna	32448		354	7,071	
new Marianna High School	Area E	Caverns Rd	Marianna	32448		253	5,054	
new Marianna High School	Area F/F1	Caverns RD	Marianna	32448		228	4,565	
Sneads High School		8066 Old Spanish	Sneads	32460	518	0	0	
Chipola Junior College	PSC					499	9,980	
Family Service Center	1					0	0	
TOTALS FOR JACKSON COUNTY					3,521	3,401	68,017	0

Year 2004	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelte Demand (ft2)	Surplus/ Deficit (ft20	Result
Storm Category 4/5	3,401	3,989	-588	68,017	79,780	-11,763	DEFICIT

County Shelter Information

JEFFERSON								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft^3) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
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					626	12,520	
TOTALS FOR JEFFERSON COUNTY					515	626	12,520	515

Year 2004	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	626	879	-253	12,520	17,580	-5,060	DEFICIT

County Shelter Information

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)
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		US 27 East	Mayo	32066	392	278	5,559	392
Lafayette High School 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						90	3,600	
TOTALS FOR LAFAYETTE COUNTY					1,394	368	$ 159	842

Year 2004	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	368	899	-531	9,159	17,980	-8,821	DEFICIT

County Shelter Information

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)
Astatula Elementary School for the Arts	1	13925 Florida Avenue	Astatula	34705	0	188	3,760	
Astatula Elementary School for the Arts	2	13925 Florida Avenue	Astatula	34705	0	358	7,160	
Astatula Elementary School for the Arts	3	13925 Florida Avenue	Astatula	34705	0	274	5,480	
Astatula Elementary School for the Arts	4	13925 Florida Avenue	Astatula	34705	120	0	0	
Astatula Elementary School for the Arts	5	13925 Florida Avenue	Astatula	34705	194	0	0	
Astatula Elementary School for the Arts	6	13925 Florida Avenue	Astatula	34705	205	0	0	
Beverly Shores Elementary School	1	1108 West Griffin Road	Leesburg	34745	9	0	0	
Beverly Shores Elementary School	2	1108 West Griffin Road	Leesburg	34745	60	0	0	
Beverly Shores Elementary School	3	1108 West Griffin Road	Leesburg	34745	27	0	0	
Beverly Shores Elementary School	4	1108 West Griffin Road	Leesburg	34745	59	0	0	
Beverly Shores Elementary School	5	1108 West Griffin Road	Leesburg	34745	57	0	0	
Beverly Shores Elementary School	6	1108 West Griffin Road	Leesburg	34745	64	0	0	
Beverly Shores Elementary School	7	1108 West Griffin Road	Leesburg	34745	57	0	0	
Beverly Shores Elementary School	8	1108 West Griffin Road	Leesburg	34745	80	0	0	
Beverly Shores Elementary School	98	1108 West Griffin Road	Leesburg	34745	43	0	0	
Beverly Shores Elementary School	99	1108 West Griffin Road	Leesburg	34745	193	0	0	
Carver Middle School	1	1200 North Beecher Street	Leesburg	34745	137	0	0	
Carver Middle School	2	1200 North Beecher Street	Leesburg	34745	17	0	0	
Carver Middle School	5	1200 North Beecher Street	Leesburg	34745	16	0	0	
Carver Middle School	6	1200 North Beecher Street	Leesburg	34745	28	0	0	
Carver Middle School	7	1200 North Beecher Street	Leesburg	34745	231	0	0	
Carver Middle School	8	1200 North Beecher Street	Leesburg	34745	46	0	0	
Carver Middle School	9	1200 North Beecher Street	Leesburg	34745	128	0	0	
Carver Middle School	10	1200 North Beecher Street	Leesburg	34745	30	0	0	
Carver Middle School	12	1200 North Beecher Street	Leesburg	34745	36	0	0	
Carver Middle School	13	1200 North Beecher Street	Leesburg	34745	24	0	0	
Carver Middle School	14	1200 North Beecher Street	Leesburg	34745	24	0	0	
Carver Middle School	15	1200 North Beecher Street	Leesburg	34745	34	0	0	
Carver Middle School	16	1200 North Beecher Street	Leesburg	34745	34	0	0	
Carver Middle School	18	1200 North Beecher Street	Leesburg	34745	7	0	0	
Carver Middle School	19	1200 North Beecher Street	Leesburg	34745	71	0	0	
Cecil E. Gray Middle School	1	198 East Cherry Street	Groveland	34736	179	0	0	
Cecil E. Gray Middle School	2	198 East Cherry Street	Groveland	34736	36	0	0	
Cecil E. Gray Middle School	3	198 East Cherry Street	Groveland	34736	72	0	0	
Cecil E. Gray Middle School	4	198 East Cherry Street	Groveland	34736	47	0	0	
Cecil E. Gray Middle School	5	198 East Cherry Street	Groveland	34736	164	0	0	

County Shelter Information

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)
Cecil E. Gray Middle School	6	198 East Cherry Street	Groveland	34736	189	0	0	
Cecil E. Gray Middle School	7	198 East Cherry Street	Groveland	34736	54	0	0	
Cecil E. Gray Middle School	17	198 East Cherry Street	Groveland	34736	52	0	0	
Cecil E. Gray Middle School	19	198 East Cherry Street	Groveland	34736	9	0	0	
Cecil E. Gray Middle School	20	198 East Cherry Street	Groveland	34736	33	0	0	
Cecil E. Gray Middle School	21	198 East Cherry Street	Groveland	34736	68	0	0	
Cecil E. Gray Middle School	22	198 East Cherry Street	Groveland	34736	14	0	0	
Cecil E. Gray Middle School	23	198 East Cherry Street	Groveland	34736	40	0	0	
Cecil E. Gray Middle School	24	198 East Cherry Street	Groveland	34736	14	0	0	
Cecil E. Gray Middle School	99	198 East Cherry Street	Groveland	34736	12	0	0	
Clermont Elementary School	1	245 Second Street	Clermont	34711	41	0	0	
Clermont Elementary School	2	245 Second Street	Clermont	34711	55	0	0	
Clermont Elementary School	3	245 Second Street	Clermont	34711	55	0	0	
Clermont Elementary School	4	245 Second Street	Clermont	34711	12	0	0	
Clermont Elementary School	5	245 Second Street	Clermont	34711	41	0	0	
Clermont Elementary School	6	245 Second Street	Clermont	34711	5	0	0	
Clermont Elementary School	7	245 Second Street	Clermont	34711	25	0	0	
Clermont Elementary School	8	245 Second Street	Clermont	34711	48	0	0	
Clermont Elementary School	9	245 Second Street	Clermont	34711	8	0	0	
Clermont Elementary School	10	245 Second Street	Clermont	34711	37	0	0	
Clermont Elementary School	11	245 Second Street	Clermont	34711	24	0	0	
Clermont Elementary School	13	245 Second Street	Clermont	34711	229	0	0	
Clermont Elementary School	14	245 Second Street	Clermont	34711	29	0	0	
Clermont Elementary School	17	245 Second Street	Clermont	34711	27	0	0	
Clermont Elementary School	18	245 Second Street	Clermont	34711	132	0	0	
Cypress Ridge Elementary School	1	350 East Avenue	Clermont	34711	27	0	0	
Cypress Ridge Elementary School	8	350 East Avenue	Clermont	34711	18	0	0	
Cypress Ridge Elementary School	9	350 East Avenue	Clermont	34711	25	0	0	
Cypress Ridge Elementary School	10	350 East Avenue	Clermont	34711	13	0	0	
Cypress Ridge Elementary School	11	350 East Avenue	Clermont	34711	13	0	0	
Cypress Ridge Elementary School	12	350 East Avenue	Clermont	34711	29	0	0	
Cypress Ridge Elementary School	15	350 East Avenue	Clermont	34711	66	0	0	
Cypress Ridge Elementary School	19	350 East Avenue	Clermont	34711	31	0	0	
Cypress Ridge Elementary School	99	350 East Avenue	Clermont	34711	241	0	0	
Dabney Elementary School	1	910 East Dixie Avenue	Leesburg	34748	10	0	0	
Dabney Elementary School	2	910 East Dixie Avenue	Leesburg	34748	27	0	0	

County Shelter Information

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)
Dabney Elementary School	3	910 East Dixie Avenue	Leesburg	34748	14	0	0	
Dabney Elementary School	4	910 East Dixie Avenue	Leesburg	34748	14	0	0	
Dabney Elementary School	5	910 East Dixie Avenue	Leesburg	34748	27	0	0	
Dabney Elementary School	6	910 East Dixie Avenue	Leesburg	34748	27	0	0	
Dabney Elementary School	7	910 East Dixie Avenue	Leesburg	34748	29	0	0	
Dabney Elementary School	9	910 East Dixie Avenue	Leesburg	34748	16	0	0	
Dabney Elementary School	10	910 East Dixie Avenue	Leesburg	34748	16	0	0	
Dabney Elementary School	11	910 East Dixie Avenue	Leesburg	34748	31	0	0	
Dabney Elementary School	12	910 East Dixie Avenue	Leesburg	34748	27	0	0	
Dabney Elementary School	13	910 East Dixie Avenue	Leesburg	34748	10	0	0	
Dabney Elementary School	14	910 East Dixie Avenue	Leesburg	34748	29	0	0	
Dabney Elementary School	98	910 East Dixie Avenue	Leesburg	34748	12	0	0	
Dabney Elementary School	99	910 East Dixie Avenue	Leesburg	34748	49	0	0	
East Ridge High School	1.	13322 Excalibur Road	Clermont	34711	362	0	0	
East Ridge High School	2	13322 Excalibur Road	Clermont	34711	221	0	0	
East Ridge High School	3	13322 Excalibur Road	Clermont	34711	245	0	0	
East Ridge High School	4	13322 Excalibur Road	Clermont	34711	256	0	0	
East Ridge High School	5	13322 Excalibur Road	Clermont	34711	101	0	0	
East Ridge High School	6	13322 Excalibur Road	Clermont	34711	103	0	0	
East Ridge High School	7	13322 Excalibur Road	Clermont	34711	134	0	0	
East Ridge High School	8	13322 Excalibur Road	Clermont	34711	271	0	0	
East Ridge High School	9	13322 Excalibur Road	Clermont	34711	517	0	0	
Elementary School "G"	1		Leesburg			183	3,660	
Elementary School "G"	2		Leesburg		364	0	0	
Elementary School "G"	3		Leesburg			282	5,640	
Elementary School "G"	4		Leesburg			222	4,440	
Elementary School "G"	5		Leesburg		276	0	0	
Elementary School "G"	6		Leesburg			243	4,860	
Eustis Elementary School	1	714 East Citrus Avenue	Eustis	32725	362	0	0	
Eustis Elementary School	2	714 East Citrus Avenue	Eustis	32725	48	0	0	
Eustis Elementary School	3	714 East Citrus Avenue	Eustis	32725	77	0	0	
Eustis Elementary School	5	714 East Citrus Avenue	Eustis	32725	8	0	0	
Eustis Elementary School	7	714 East Citrus Avenue	Eustis	32725	119	0	0	
Eustis Elementary School	99	714 East Citrus Avenue	Eustis	32725	56	0	0	
Eustis Heights Elementary School	1	310 West Taylor Avenue	Eustis	32726	59	0	0	
Eustis Heights Elementary School	2	310 West Taylor Avenue	Eustis	32726	99	0	0	

County Shelter Information

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)
Eustis Heights Elementary School	4	310 West Taylor Avenue	Eustis	32726	22	0	0	
Eustis Heights Elementary School	5	310 West Taylor Avenue	Eustis	32726	40	0	0	
Eustis Heights Elementary School	6	310 West Taylor Avenue	Eustis	32726	40	0	0	
Eustis Heights Elementary School	7	310 West Taylor Avenue	Eustis	32726	41	0	0	
Eustis Heights Elementary School	8	310 West Taylor Avenue	Eustis	32726	70	0	0	
Eustis Heights Elementary School	11	310 West Taylor Avenue	Eustis	32726	35	0	0	
Eustis Heights Elementary School	12	310 West Taylor Avenue	Eustis	32726	79	0	0	
Eustis Heights Elementary School	13	310 West Taylor Avenue	Eustis	32726	91	0	0	
Eustis Heights Elementary School	98	310 West Taylor Avenue	Eustis	32726	12	0	0	
Eustis Heights Elementary School	99	310 West Taylor Avenue	Eustis	32726	285	0	0	
Eustis High Curtrught Center	1	1801 Bates Avenue	Eustis	32726	18	0	0	
Eustis High Curtrught Center	3	1801 Bates Avenue	Eustis	32726	74	0	0	
Eustis High Curtrught Center	4	1801 Bates Avenue	Eustis	32726	38	0	0	
Eustis High Curtrught Center	5	1801 Bates Avenue	Eustis	32726	33	0	0	
Eustis High Curtrught Center	6	1801 Bates Avenue	Eustis	32726	162	0	0	
Eustis High Curtrught Center	7	1801 Bates Avenue	Eustis	32726	20	0	0	
Eustis High Curtrught Center	9	1801 Bates Avenue	Eustis	32726	263	0	0	
Eustis High Curtrught Center	13	1801 Bates Avenue	Eustis	32726	61	0	0	
Eustis High Curtrught Center	15	1801 Bates Avenue	Eustis	32726	12	0	0	
Eustis High School	1	1300 East Washinton Avenue	Eustis	32726	630	0	0	
Eustis High School	6	1300 East Washinton Avenue	Eustis	32726	84	0	0	
Eustis High School	7	1300 East Washinton Avenue	Eustis	32726	76	0	0	
Eustis Middle School	1	18726 East Bates Avenue	Eustis	32726	143	0	0	
Eustis Middle School	2	18726 East Bates Avenue	Eustis	32726	147	0	0	
Eustis Middle School	3	18726 East Bates Avenue	Eustis	32726	160	0	0	
Eustis Middle School	4	18726 East Bates Avenue	Eustis	32726	146	0	0	
Eustis Middle School	6	18726 East Bates Avenue	Eustis	32726	90	0	0	
Eustis Middle School	7	18726 East Bates Avenue	Eustis	32726	128	0	0	
Eustis Middle School	8	18726 East Bates Avenue	Eustis	32726	216	0	0	
Eustis Middle School	99	18726 East Bates Avenue	Eustis	32726	15	0	0	
Fruitland Park Elementary School	1	304 West Fountain Street	Fruitland Park	34731	670	0	0	
Fruitland Park Elementary School	2	304 West Fountain Street	Fruitland Park	34731	72	0	0	
Fruitland Park Elementary School	98	304 West Fountain Street	Fruitland Park	34731	42	0	0	
Fruitland Park Elementary School	99	304 West Fountain Street	Fruitland Park	34731	109	0	0	
Griffin Education Center	1	510 Palm Avenue	Howey	34737	47	0	0	
Griffin Education Center	2	510 Palm Avenue	Howey	34737	116	0	0	

County Shelter Information

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)
Griffin Education Center	6	510 Palm Avenue	Howey	34737	308	0	0	
Griffin Education Center	8	510 Palm Avenue	Howey	34737	18	0	0	
Griffin Education Center	99	510 Palm Avenue	Howey	34737	303	0	0	
Groveland Elementary School	1	930 Parkwood Avenue	Groveland	34736	156	0	0	
Groveland Elementary School	2	930 Parkwood Avenue	Groveland	34736	65	0	0	
Groveland Elementary School	3	930 Parkwood Avenue	Groveland	34736	184	0	0	
Groveland Elementary School	4	930 Parkwood Avenue	Groveland	34736	109	0	0	
Groveland Elementary School	6	930 Parkwood Avenue	Groveland	34736	31	0	0	
Groveland Elementary School	7	930 Parkwood Avenue	Groveland	34736	43	0	0	
Groveland Elementary School	8	930 Parkwood Avenue	Groveland	34736	112	0	0	
Groveland Elementary School	98	930 Parkwood Avenue	Groveland	34736	25	0	0	
Groveland Elementary School	99	930 Parkwood Avenue	Groveland	34736	205	0	0	
Howey Education Center	1	525 Georgia Avenue	Howey	34737	18	0	0	
Howey Education Center	2	525 Georgia Avenue	Howey	34737	33	0	0	
Lake Area Vocational-Technical Center Astat	1	13000 Frankies Road	Tavares	32778	39	0	0	
Lake Area Vocational-Technical Center Astat	2	13000 Frankies Road	Tavares	32778	33	0	0	
Lake Area Vocational-Technical Center Astat	3	13000 Frankies Road	Tavares	32778	148	0	0	
Lake Area Vocational-Technical Center Eustis	1	2001 Kurt Street	Eustis	32726	276	0	0	
Lake Area Vocational-Technical Center Eustis	2	2001 Kurt Street	Eustis	32726	164	0	0	
Lake Area Vocational-Technical Center Eustis	3	2001 Kurt Street	Eustis	32726	11	0	0	
Lake Area Vocational-Technical Center Eustis	6	2001 Kurt Street	Eustis	32726	16	0	0	
Lake Area Vocational-Technical Center Eustis	7	2001 Kurt Street	Eustis	32726	12	0	0	
Lake Area Vocational-Technical Center Tavar	2	129000 Lane Park Cut-off	Tavares	32778	26	0	0	
Lake Area Vocational-Technical Center Tavar	3	129000 Lane Park Cut-off	Tavares	32778	17	0	0	
Lake Area Vocational-Technical Center Tavar	4	129000 Lane Park Cut-off	Tavares	32778	17	0	0	
Lake Hills School	1	200 W Golf Links Avenue	Eustis	32726	62	0	0	
Lake Hills School	99	200 W Golf Links Avenue	Eustis	32726	410	0	0	
Lee Education Center	1	207 North Lee Street	Leesburg	34748	169	0	0	
Lee Education Center	2	207 North Lee Street	Leesburg	34748	50	0	0	
Lee Education Center	3	207 North Lee Street	Leesburg	34748	46	0	0	
Lee Education Center	99	207 North Lee Street	Leesburg	34748	80	0	0	
Leesburg High School	13	1401 West Meadows Avenue	Leesburg	34748	119	0	0	
Leesburg High School	14	1401 West Meadows Avenue	Leesburg	34748	37	0	0	
Leesburg High School	15	1401 West Meadows Avenue	Leesburg	34748	12	0	0	
Lost Lake Elementary School	1	1901 Johns Lake Road	Clermont	34711	0	235	4,700	
Lost Lake Elementary School	2	1901 Johns Lake Road	Clermont	34711	0	409	8,180	

County Shelter Information

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)
Lost Lake Elementary School	3	1901 Johns Lake Road	Clermont	34711	0	287	5,740	
Lost Lake Elementary School	4	1901 Johns Lake Road	Clermont	34711	120	0	0	
Lost Lake Elementary School	5	1901 Johns Lake Road	Clermont	34711	195	0	0	
Lost Lake Elementary School	6	1901 Johns Lake Road	Clermont	34711	209	0	0	
Mascotte Education Center	3	232 East Myers Boulevard	Mascotte	34753	52	0	0	
Mascotte Education Center	5	232 East Myers Boulevard	Mascotte	34753	17	0	0	
Mascotte Education Center	6	232 East Myers Boulevard	Mascotte	34753	39	0	0	
Mascotte Education Center	7	232 East Myers Boulevard	Mascotte	34753	24	0	0	
Mascotte Elementary School	1	513 Albrook Street	Mascotte	34753	287	0	0	
Mascotte Elementary School	2	513 Albrook Street	Mascotte	34753	108	0	0	
Mascotte Elementary School	7	513 Albrook Street	Mascotte	34753	46	0	0	
Mascotte Elementary School	98	513 Albrook Street	Mascotte	34753	25	0	0	
Mascotte Elementary School	99	513 Albrook Street	Mascotte	34753	150	0	0	
Minneola Elementary School	1	300 Pearl Street	Clermont	34711	86	0	0	
Minneola Elementary School	2	300 Pearl Street	Clermont	34711	44	0	0	
Minneola Elementary School	3	300 Pearl Street	Clermont	34711	98	0	0	
Minneola Elementary School	4	300 Pearl Street	Clermont	34711	78	0	0	
Minneola Elementary School	6	300 Pearl Street	Clermont	34711	53	0	0	
Minneola Elementary School	7	300 Pearl Street	Clermont	34711	40	0	0	
Minneola Elementary School	8	300 Pearl Street	Clermont	34711	82	0	0	
Minneola Elementary School	99	300 Pearl Street	Clermont	34711	214	0	0	
Mount Dora High School	8	700 North Highland Avenue	Mount Dora	32757	50	0	0	
Mount Dora High School	5	700 North Highland Avenue	Mount Dora	32757		361	7,220	S
Mount Dora High School	24	700 North Highland Avenue	Mount Dora	32757	124	0	0	
Mount Dora High School	25	700 North Highland Avenue	Mount Dora	32757	70	0	0	
Mount Dora High School	99	700 North Highland Avenue	Mount Dora	32757	12	0	0	
Mount Dora Middle School	1	1250 North Grant Avenue	Mount Dora	32757	8	0	0	
Mount Dora Middle School	2	1250 North Grant Avenue	Mount Dora	32757	77	0	0	
Mount Dora Middle School	3	1250 North Grant Avenue	Mount Dora	32757	45	0	0	
Mount Dora Middle School	4	1250 North Grant Avenue	Mount Dora	32757	135	0	0	
Mount Dora Middle School	5	1250 North Grant Avenue	Mount Dora	32757	37	0	0	
Mount Dora Middle School	7	1250 North Grant Avenue	Mount Dora	32757	77	0	0	
Mount Dora Middle School	8	1250 North Grant Avenue	Mount Dora	32757	238	0	0	
Mount Dora Middle School	11	1250 North Grant Avenue	Mount Dora	32757	61	0	0	
Mount Dora Middle School	98	1250 North Grant Avenue	Mount Dora	32757	12	0	0	
Mount Dora Middle School	99	1250 North Grant Avenue	Mount Dora	32757	118	0	0	

County Shelter Information

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)
North Lake Education Center	1	42630 Highway 19	Altoona	32702	76	0	0	
North Lake Education Center	99	42630 Highway 19	Altoona	32702	75	0	0	
Oak Park Middle School	1	2101 South Street	Leesburg	34748	319	0	0	
Oak Park Middle School	2	2101 South Street	Leesburg	34748	108	0	0	
Oak Park Middle School	4	2101 South Street	Leesburg	34748	172	0	0	
Oak Park Middle School	5	2101 South Street	Leesburg	34748	33	0	0	
Oak Park Middle School	6	2101 South Street	Leesburg	34748	198	0	0	
Oak Park Middle School	99	2101 South Street	Leesburg	34748	70	0	0	
Pine Ridge Elementary	1	10245 County Road 561	Clermont	34711		175	3,500	
Pine Ridge Elementary	3	10245 County Road 561	Clermont	34711		267	5,340	
Pine Ridge Elementary	4	10245 County Road 561	Clermont	34711		222	4,440	
Pine Ridge Elementary	6	10245 County Road 561	Clermont	34711		232	4,640	
Rimes Elementary School	1	3101 Schoolview Street	Leesburg	34748	6	0	0	
Rimes Elementary School	2	3101 Schoolview Street	Leesburg	34748	49	0	0	
Rimes Elementary School	3	3101 Schoolview Street	Leesburg	34748	55	0	0	
Rimes Elementary School	4	3101 Schoolview Street	Leesburg	34748	52	0	0	
Rimes Elementary School	5	3101 Schoolview Street	Leesburg	34748	74	0	0	
Rimes Elementary School	6	3101 Schoolview Street	Leesburg	34748	58	0	0	
Rimes Elementary School	7	3101 Schoolview Street	Leesburg	34748	32	0	0	
Rimes Elementary School	9	3101 Schoolview Street	Leesburg	34748	52	0	0	
Rimes Elementary School	98	3101 Schoolview Street	Leesburg	34748	69	0	0	
Rimes Elementary School	99	3101 Schoolview Street	Leesburg	34748	62	0	0	
Round Lake Elementary School	1	31333 Round Lake Road	Mt. Dora	32757	0	183	3,660	
Round Lake Elementary School	2	31333 Round Lake Road	Mt. Dora	32757	364	0	0	
Round Lake Elementary School	3	31333 Round Lake Road	Mt. Dora	32757	0	282	5,640	
Round Lake Elementary School	4	31333 Round Lake Road	Mt. Dora	32757	0	222	4,440	
Round Lake Elementary School	5	31333 Round Lake Road	Mt. Dora	32757	276	0	0	
Round Lake Elementary School	6	31333 Round Lake Road	Mt. Dora	32757	0	243	4,860	
Round Lake Elementary School	99	31333 Round Lake Road	Mt. Dora	32757	31	0	0	
Seminole Springs Elementary School	1	26200 West Huff Road	Eustis	32726	0	140	2,800	S
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	134	2,680	S
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	

County Shelter Information

LAKE								
Name	Bldg. #	Address	City	Zip	Host Capacity In People	Total Risk Capacity In People (Meets ARC 4496)	Total Risk Capacity (ft^3) (Meets ARC 4496)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Skeen Elementary School	1	401 South Moss Street	Leesburg	34748	76	0	0	
Skeen Elementary School	2	401 South Moss Street	Leesburg	34748	39	0	0	
Skeen Elementary School	3	401 South Moss Street	Leesburg	34748	41	0	0	
Skeen Elementary School	4	401 South Moss Street	Leesburg	34748	33	0	0	
Skeen Elementary School	5	401 South Moss Street	Leesburg	34748	41	0	0	
Skeen Elementary School	6	401 South Moss Street	Leesburg	34748	32	0	0	
Skeen Elementary School	7	401 South Moss Street	Leesburg	34748	40	0	0	
Skeen Elementary School	8	401 South Moss Street	Leesburg	34748	40	0	0	
Skeen Elementary School	9	401 South Moss Street	Leesburg	34748	66	0	0	
Skeen Elementary School	12	401 South Moss Street	Leesburg	34748	54	0	0	
Skeen Elementary School	98	401 South Moss Street	Leesburg	34748	25	0	0	
Skeen Elementary School	99	401 South Moss Street	Leesburg	34748	170	0	0	
South Lake High 9th Grade Center	1	301 East Avenue	Clermont	34711	10	0	0	
South Lake High 9th Grade Center	2	301 East Avenue	Clermont	34711	8	0	0	
South Lake High 9th Grade Center	3	301 East Avenue	Clermont	34711	65	0	0	
South Lake High 9th Grade Center	4	301 East Avenue	Clermont	34711	29	0	0	
South Lake High 9th Grade Center	5	301 East Avenue	Clermont	34711	51	0	0	
South Lake High 9th Grade Center	6	301 East Avenue	Clermont	34711	58	0	0	
South Lake High 9th Grade Center	7	301 East Avenue	Clermont	34711	55	0	0	
South Lake High 9th Grade Center	8	301 East Avenue	Clermont	34711	38	0	0	
South Lake High 9th Grade Center	9	301 East Avenue	Clermont	34711	97	0	0	
South Lake High 9th Grade Center	11	301 East Avenue	Clermont	34711	95	0	0	
South Lake High 9th Grade Center	12	301 East Avenue	Clermont	34711	50	0	0	
South Lake High 9th Grade Center	13	301 East Avenue	Clermont	34711	55	0	0	
South Lake High 9th Grade Center	14	301 East Avenue	Clermont	34711	224	0	0	
South Lake High 9th Grade Center	15	301 East Avenue	Clermont	34711	22	0	0	
South Lake High 9th Grade Center	18	301 East Avenue	Clermont	34711	38	0	0	
South Lake High 9th Grade Center	20	301 East Avenue	Clermont	34711	90	0	0	
South Lake High 9th Grade Center	25	301 East Avenue	Clermont	34711	89	0	0	
South Lake High 9th Grade Center	99	301 East Avenue	Clermont	34711	56	0	0	
South Lake Senior High School	1	15600 Silver Lake Road	Groveland	34736	0	406	8,120	S
South Lake Senior High School	2	15600 Silver Lake Road	Groveland	34736	0	335	6,700	S
South Lake Senior High School	3	15600 Silver Lake Road	Groveland	34736	0	418	8,360	S
South Lake Senior High School	4	15600 Silver Lake Road	Groveland	34736	0	435	8,700	S
South Lake Senior High School	5	15600 Silver Lake Road	Groveland	34736	0	160	3,200	S
South Lake Senior High School	6	15600 Silver Lake Road	Groveland	34736	311	0	0	

County Shelter Information

LAKE								
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South Lake Senior High School	7	15600 Silver Lake Road	Groveland	34736	108	0	0	
South Lake Senior High School	8	15600 Silver Lake Road	Groveland	34736	105	0	0	
South Lake Senior High School	9	15600 Silver Lake Road	Groveland	34736	110	0	0	
South Lake Senior High School	10	15600 Silver Lake Road	Groveland	34736	96	0	0	
South Lake Senior High School	11	15600 Silver Lake Road	Groveland	34736	28	0	0	
South Lake Senior High School	12	15600 Silver Lake Road	Groveland	34736	90	0	0	
South Lake Senior High School	99	15600 Silver Lake Road	Groveland	34736	62	0	0	
South Lake Senior High School	?	15600 Silver Lake Road	Groveland	34736		983	19,660	
Spring Creek Elementary School	1	44440 Spring Creek Road	Paisley	32767	0	178	3,560	S
Spring Creek Elementary School	2	44440 Spring Creek Road	Paisley	32767	0	245	4,900	S
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	0	
Spring Creek Elementary School	5	44440 Spring Creek Road	Paisley	32767	151	0	0	
Spring Creek Elementary School	6	44440 Spring Creek Road	Paisley	32767	121	0	0	
Spring Creek Elementary School	99	44440 Spring Creek Road	Paisley	32767	42	0	0	
Spring Creek Elementary School	99	44440 Spring Creek Road	Paisley	32767				
Tavares Elementary School	1	720 East Clifford Street	Tavares	32778	648	0	0	
Tavares Elementary School	2	720 East Clifford Street	Tavares	32778	169	0	0	
Tavares Elementary School	4	720 East Clifford Street	Tavares	32778	48	0	0	
Tavares Elementary School	5	720 East Clifford Street	Tavares	32778	44	0	0	
Tavares Elementary School	99	720 East Clifford Street	Tavares	32778	164	0	0	
Tavares Senior High School	1	603 New Hampshire Avenue	Tavares	32778	260	0	0	
Tavares Senior High School	2	603 New Hampshire Avenue	Tavares	32778	49	0	0	
Tavares Senior High School	4	603 New Hampshire Avenue	Tavares	32778	60	0	0	
Tavares Senior High School	5	603 New Hampshire Avenue	Tavares	32778	57	0	0	
Tavares Senior High School	7	603 New Hampshire Avenue	Tavares	32778		489	19,560	
Tavares Senior High School	8	603 New Hampshire Avenue	Tavares	32778	47	0	0	
Tavares Senior High School	9	603 New Hampshire Avenue	Tavares	32778	42	0	0	
Tavares Senior High School	15	603 New Hampshire Avenue	Tavares	32778	31	0	0	
Tavares Senior High School	16	603 New Hampshire Avenue	Tavares	32778	39	0	0	
Tavares Senior High School	17	603 New Hampshire Avenue	Tavares	32778	54	0	0	
Tavares Senior High School	18	603 New Hampshire Avenue	Tavares	32778	27	0	0	
Tavares Senior High School	19	603 New Hampshire Avenue	Tavares	32778	31	0	0	
Tavares Senior High School	20	603 New Hampshire Avenue	Tavares	32778	93	0	0	
Tavares Senior High School	22	603 New Hampshire Avenue	Tavares	32778	122	0	0	
Tavares Middle School	1	13032 Lane Park Cutoff	Tavares	32778	75	0	0	

County Shelter Information

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Tavares Middle School	2	13032 Lane Park Cutoff	Tavares	32778	149	0	0	
Tavares Middle School	3	13032 Lane Park Cutoff	Tavares	32778	161	0	0	
Tavares Middle School	4	13032 Lane Park Cutoff	Tavares	32778	141	0	0	
Tavares Middle School	6	13032 Lane Park Cutoff	Tavares	32778	90	0	0	
Tavares Middle School	7	13032 Lane Park Cutoff	Tavares	32778	61	0	0	
Tavares Middle School	8	13032 Lane Park Cutoff	Tavares	32778	201	0	0	
Tavares Middle School	9	13032 Lane Park Cutoff	Tavares	32778	68	0	0	
Tavares Middle School	99	13032 Lane Park Cutoff	Tavares	32778	31	0	0	
Treadway Elementary School	1	10619 Treadway School Road	Leesburg	34748	40	0	0	
Treadway Elementary School	2	10619 Treadway School Road	Leesburg	34748	199	0	0	
Treadway Elementary School	7	10619 Treadway School Road	Leesburg	34748	70	0	0	
Treadway Elementary School	8	10619 Treadway School Road	Leesburg	34748	66	0	0	
Treadway Elementary School	10	10619 Treadway School Road	Leesburg	34748	121	0	0	
Treadway Elementary School	12	10619 Treadway School Road	Leesburg	34748	154	0	0	
Treadway Elementary School	99	10619 Treadway School Road	Leesburg	34748	285	0	0	
Triangle Elementary School	1	1707 Eudora Road	Mount Dora	32757	350	0	0	
Triangle Elementary School	3	1707 Eudora Road	Mount Dora	32757	115	0	0	
Triangle Elementary School	4	1707 Eudora Road	Mount Dora	32757	184	0	0	
Triangle Elementary School	6	1707 Eudora Road	Mount Dora	32757	28	0	0	
Triangle Elementary School	7	1707 Eudora Road	Mount Dora	32757	53	0	0	
Triangle Elementary School	98	1707 Eudora Road	Mount Dora	32757	41	0	0	
Triangle Elementary School	99	1707 Eudora Road	Mount Dora	32757	206	0	0	
Umatilla 9th Grade Center	3	60 Smith Street	Umatilla	32784	65	0	0	
Umatilla 9th Grade Center	4	60 Smith Street	Umatilla	32784	90	0	0	
Umatilla 9th Grade Center	5	60 Smith Street	Umatilla	32784	28	0	0	
Umatilla 9th Grade Center	8	60 Smith Street	Umatilla	32784	154	0	0	
Umatilla 9th Grade Center	98	60 Smith Street	Umatilla	32784	12	0	0	
Umatilla 9th Grade Center	99	60 Smith Street	Umatilla	32784	22	0	0	
Umatilla Elementary School	1	60 Smith Street	Umatilla	32784	364	183	3,660	
Umatilla Elementary School	3	60 Smith Street	Umatilla	32784	0	364	7,280	
Umatilla Elementary School	4	60 Smith Street	Umatilla	32784	0	222	4,440	
Umatilla Elementary School	5	60 Smith Street	Umatilla	32784	310			
Umatilla Elementary School	6	60 Smith Street	Umatilla	32784	0	243	4,860	
Umatilla High School	1	320 North Trowell Avenue	Umatilla	32784	20	0	0	
Umatilla High School	3	320 North Trowell Avenue	Umatilla	32784	71	0	0	
Umatilla High School	4	320 North Trowell Avenue	Umatilla	32784	106	0	0	

County Shelter Information

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Umatilla High School	5	320 North Trowell Avenue	Umatilla	32784	50	0	0	
Umatilla High School	6	320 North Trowell Avenue	Umatilla	32784	118	0	0	
Umatilla High School	8	320 North Trowell Avenue	Umatilla	32784	57	0	0	
Umatilla High School	9	320 North Trowell Avenue	Umatilla	32784	14	0	0	
Umatilla High School	11	320 North Trowell Avenue	Umatilla	32784	63	0	0	
Umatilla High School	13	320 North Trowell Avenue	Umatilla	32784	38	0	0	
Umatilla High School	15	320 North Trowell Avenue	Umatilla	32784	48	0	0	
Umatilla High School	99	320 North Trowell Avenue	Umatilla	32784	45	0	0	
Umatilla Middle School	1	305 East Lake Street	Umatilla	32784	451	0	0	
Umatilla Middle School	2	305 East Lake Street	Umatilla	32784	54	0	0	
Umatilla Middle School	4	305 East Lake Street	Umatilla	32784	52	0	0	
Umatilla Middle School	5	305 East Lake Street	Umatilla	32784	200	0	0	
Umatilla Middle School	7	305 East Lake Street	Umatilla	32784	177	0	0	
Umatilla Middle School	99	305 East Lake Street	Umatilla	32784	25	0	0	
Villages Elementary School of Lady Lake	1	695 Rolling Acres Road	Lady Lake	32159	0	236	4,720	
Villages Elementary School of Lady Lake	2	695 Rolling Acres Road	Lady Lake	32159	0	359	7,180	
Villages Elementary School of Lady Lake	3	695 Rolling Acres Road	Lady Lake	32159	0	284	5,680	
Villages Elementary School of Lady Lake	4	695 Rolling Acres Road	Lady Lake	32159	173	0	0	
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	
			TOTALS FOR LAKE COUNTY		34,105	10,682	223,420	0

Year 2004	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	10,682	16,331	-5,649	223,420	326,620	-103,200	DEFICIT

County Shelter Information

LEE								
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)
Alva Elementary School	20	21290 Park Street	Alva	33920	0	283	5,660	0
Bayshore Elementary School		17050 Williams Road	North Ft. Myers	33917	0	0	0	300
Caloosa Middle						100	4,000	
Colonial Elementary School		3800 Schoolhouse Rd East	Ft. Myers	33916	0	0	0	1,545
Diplomat Elementary Shcool		1115 NE 16th Terrace	Cape Coral	33990	0	0	0	1,600
Diplomat Middle School	1	1039 NE 16th Terrace	Cape Coral	33990	0	1,000	20,000	0
Dunbar High		3800 E. Edison Avenue	Ft. Myers	33903	800	800	16,000	800
Edison Learning Center						150	6,000	
English Elementary						800	16,000	
Estro High School		21900 River Ranch Road	Estero	33928	764	0	0	500
Florida Gulf Coast Univ		12181 FGCU Lake Pkway E	Bonita Bch		1,825	1,825	36,500	1,825
Heights Elementary School		15200 Alexandria COurt	Ft. Myers	33908	0	0	0	1,000
J. Colon English Elementary		120 Pine Island Road	North Ft. Myers	33903	0	0	0	800
Lee County Civic Center		11831 Bayshore Road	North Ft. Myers	33917	5,000	0	0	5,000
Lee Middle School		1333 Marsh Avenue	Ft. Myers	33905	1,600	0	0	1,600
Lehigh Senior High School	1,2,4	801 Gunnery Road North	Lehigh Acres	33971	0	380	7,600	0
Lehigh Middle School		104 Arthur Avenue	Lehigh Acres	33936	0	710	14,200	0
Littleton Elementary School		700 Hutto Road	North Ft. Myers	33903	0	0	0	1,425
Mariner High School		701 Chiquita Boulevard	Cape Coral	33909	0	0	0	345
School		525 Charwood Avenue	Lehigh	33936	0	1,000	20,000	0
Arts						1,000	20,000	
Riverdale High School		2600 Buckingham Road	Ft. Myers	33905	1,150	0	0	1,150
Royal Palm Exceptional Center		1817 High Street	Ft. Myers	33916	0	470	9,400	470
School of the Arts		1856 Arts Way	N. Ft. Myers	33907	2,500	2,500	50,000	2,500
Skyline Elementary School		620 SW 19th Street	Cape Coral	33991	0	0	0	1,695
Sunshine Elementary						200	8,000	
Tanglewood Elementary School		1620 Manchester Blvd	Ft. Myers	33919	0	0	0	800
TECO	1	11000 Everblades Parkway	Estero	33928	6,500	6,500	130,000	0
Three Oaks Elementary School		19600 Three Oaks Parkway	San Carlos Park	33912	0	0	0	1,715
Three Oaks Middle School		18500 Three Oaks Parkway	San Carlos Park	33912	0	0	0	1,440
Tice Elementary School		4524 Tice Street	Ft. Myers	33905	0	0	0	100
1st Presbyterian Church, B.S.						50	2,000	
			TOTALS FOR LEE COUNTY		20,139	17,768	365,360	26,810

County Shelter Information

LEE								
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)

Year 2004	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	17,768	105,134	-87,366	365,360	2,102,680	-1,737,320	DEFICIT

County Shelter Information

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)
Apalachee Elementary School		650 Trojan Trail	Tallahassee	32311	400	0	0	400
Astoria Park Elementary School		2465 Atlas Road	Tallahassee	32303	400	0	0	400
Belle Vue Middle School		2214 Belle Vue Way	Tallahassee	32303	300	0	0	300
Bethel AME Church		501 West Orange Avenue	Tallahassee	32312	200	0	0	200
Bond Elementary School		2204 Saxon Street	Tallahassee	32310	400	0	0	400
Bucklake Elementary School		1600 Pedrick Road	Tallahassee	32311	350	0	0	400
Canopy Oaks Elementary School		3250 Point View Drive	Tallahassee	32303	400	0	0	400
Carolyn Brevard Elementary School		2006 Jackson Bluff Road	Tallahassee	32304	400	0	0	400
Chaires Elementary School		4774 Chaires Crossroads	Tallahassee	32311	350	0	0	400
Cobb Middle School		915 Hillcrest Avenue	Tallahassee	32308	400	0	0	400
Dearlake Middle School		9902 Deerlake Drive West	Tallahassee	32312	400	0	0	400
Desoto Trail Emementary School		2930 Velda Dairy Road	Tallahassee	32308	300	0	0	300
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 Road	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			
Forest Heights Baptist Church		1200 West Tharpe Street	Tallahassee	32303	125	0	0	125
Fort Braden Elementary School		15100 Blountstown Hwy	Tallahassee	32310	250	0	0	250
Gilchrist Elementary School		695 Timberlane Road	Tallahassee	32312	225	0	0	225
Godby High School		1717 West tharpe Street	Tallahassee	32303	400	0	0	400
Griffin Middle School		800 Alabama Street	Tallahassee	32304	400	0	0	400
Hartsfield Elementary School		1414 Chowkeebin Nene	Tallahassee	32301	400	0	0	400
Kate Sullivan Elementary School		927 Miccousukee Road	Tallahassee	32308	350	0	0	350
Killearn Lakes Elementary School		8037 Deerlake Drive East	Tallahassee	32312	400	0	0	400
Lakeview Baptist Church		222 West 7th Avenue	Tallahassee	32303	150	0	0	150
Lawton Chiles High School		7200 Thomasville Road	Tallahassee	32312	400	821	16,420	400
Leon High School		550 Tennessee Street	Tallahassee	32308	400	0	0	400
Lincoln High School		3838 Trojan Trail	Tallahassee	32311	400	0	0	400
Lively Technical Center		500 N. Appleyard Drive	Tallahassee	32312	500	0	0	500
Mormon Church, Stadium Dr.		312 Stadium Drive	Tallahassee	32304	165	0	0	165
Mormon Church, Thomasville Rd.		3717 Thomasville Road	Tallahassee	32308	225	0	0	225
Nims Middle School		723 W. Orange Avenue	Tallahassee	32301	400	0	0	400
Oak Ridge Elem		4350 Shelfer Road	Tallahassee	32310	300	0	0	300
Pineview Elementary School		2230 Lake Bradford Road	Tallahassee	32310	400	0	0	400

County Shelter Information

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)
Raa Middle School		410 West Tharpe Street	Tallahassee	32303	400	0	0	400
Rickards High School		3013 Jim Lee Road	Tallahassee	32301	400	0	0	400
Riley Elementary School		1400 Indiana Street	Tallahassee	32304	350	0	0	400
Ruediger Elementary School		526 West 10th Avenue	Tallahassee	32303	400	0	0	400
Sabal Palm Elementary School		2813 Ridgeway Street	Tallahassee	32310	350	0	0	400
Sealey Elementary School		2815 Allen Road	Tallahassee	32312	250	0	0	250
Senior Citizens Center		1400 North Monroe Street	Tallahassee	32303	300	0	0	300
Springwood Elementary School		3801 Fred George Road	Tallahassee	32303	400	0	0	400
St John's Episcopal Church		211 N Monroe Street	Tallahassee	32301	100	0	0	100
Swift Creek Middle School		2100 Pedrick Road	Tallahassee	32311	400	0	0	400
W. T. Moore Elementary School		2700 Dempsey Mayo Road	Tallahassee	32308	300	0	0	300
Wesson Elementary School		2813 S. Meridian Street	Tallahassee	32301	400	0	0	400
Woodville Elementary School		SR 363	Woodville	32362	100	0	0	100
Hawks Rise ES		205 Meadow Ridge Dr	Tallahassee	32301	400	0	0	
TOTALS FOR LEON COUNTY					15,730	821	16,420	15,380

Year 2004	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	821	12,564	-11,743	16,420	251,280	-234,860	DEFICIT

County Shelter Information

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)
Bronson Elementary School		State Road 24	Bronson	32621	260	0	0	2,720
Bronson High School	6	1 Eagle Street	Bronson	32621	622	622	12,440	
Bronson High School	7	1 Eagle Street	Bronson	32621	580	580	11,600	
Bullock ES	5	130 Southwest 3rd. Strret	Williston	32696	525	525	10,500	
Bronson High School		1 Eagle Street	Bronson	32621	265	0	0	1,623
Cedar Key School		951 Whiddon Avenue	Cedar Key	32625	38	0	0	0
Chiefland Elementary School		1205 NW 4th Avenue	Chiefland	32626	226	240	4,800	1,687
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. Strret	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	488	9,760	
Williston High School		427 West Noble Avenue	Williston	32696	471	0	0	3,738
Williston Middle School		20550 NE 3rd Avenue	Williston	32696	122	0	0	1,965
Yankeetown School		4500 Highway 40 West	Yankeetown	34498	229	0	0	0
				TOTALS FOR LEVY COUNTY	4,997	2,455	49,100	19,002

Year 2004	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	2,455	5,186	-2,731	49,100	103,720	-54,620	DEFICIT

County Shelter Information

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)
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	2	SR 12	Bristol	32321	350	600	12,000	400
				TOTALS FOR LIBERTY COUNTY	1,060	600	12,000	920

Year 2004	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	600	1154	-554	12,000	23080	-11,080	DEFICIT

County Shelter Information

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)
Greenville Primary School		109 S. Grand St	Greenville	32331	100	0	0	370
Greenville Elementary School		SR 150 S	Greenville	32331	175	0	0	
Lee Elementary School		731 US Hwy 90 E	Lee	32059	225	0	0	
Madison 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 Central School	1	Hwy 90	Madison	32340		518	10,360	
Madison Central School	2	Hwy 90	Madison	32340		721	14,420	
Madison Central School	3	Hwy 90	Madison	32340		490	9,800	
Madison Central School	4	Hwy 90	Madison	32340		265	5,300	
Madison Central School	5	Hwy 90	Madison	32340		833	16,660	
Madison Central School	6	Hwy 90	Madison	32340		768	15,360	
Madison Central School	7	Hwy 90	Madison	32340		728	14,560	
Madison Central School	8	Hwy 90	Madison	32340		796	15,920	
Madison Central School	9	Hwy 90	Madison	32340		659	13,180	
Madison Central School	10	Hwy 90	Madison	32340		802	16,040	
Madison Central School	11	Hwy 90	Madison	32340		518	10,360	
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 Drive	Pinetta	32350	190	0	0	190
						0	0	
Town of Lee-Publ. Saf/Emerg Shel	Fire Stn					300	6,000	
TOTALS FOR MADISON COUNTY					1,515	7,398	147,960	1,060

Year 2004	Shelter Capcity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4/5	7,398	1,660	5,738	147,960	33,200	114,760	SURPLUS

County Shelter Information

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)
Bashaw Elementary School	2	3515 Morgan Johnson Rd	Bradenton	34208		500	10,013	
Bashaw Elementary School	1	3515 Morgan Johnson Rd	Bradenton	34208	1,925	90	1,793	
Bashaw Elementary School	3	3515 Morgan Johnson Rd	Bradenton	34208		502	10,040	
Bashaw Elementary School	4	3515 Morgan Johnson Rd	Bradenton	34208		460	9,200	
Bashaw Elementary School	5	3515 Morgan Johnson Rd	Bradenton	34208		465	9,300	
Braden River Elementary School	1	6215 River Club Boulevard	Bradenton	34202		90	1,793	
Braden River Elementary School	2	6215 River Club Boulevard	Bradenton	34202	1,860	66	1,693	502
Braden River Elementary School	3	6215 River Club Boulevard	Bradenton	34202		502	10,042	
Braden River Elementary School	4	6215 River Club Boulevard	Bradenton	34202		460	9,194	
Braden River Elementary School	5	6215 River Club Boulevard	Bradenton	34202		502	9,377	
Braden River Middle School	5	6215 River Club Boulevard	Bradenton	34202	1,378	183	3,652	1,195
Braden River Middle School	6	6215 River Club Boulevard	Bradenton	34202		354	7,084	
Carlos Haile Middle School	3A	9501 State Road 64th East	Bradenton	34212	1,632	297	5,940	
Carlos Haile Middle School	4	9501 State Road 64th East	Bradenton	34212		747	1,490	
Carlos Haile Middle School	5	9501 State Road 64th East	Bradenton	34212		588	11,751	
Freedom Elementary	1				1711	1,711	34,020	
Kinnan Elementary School	3	3415 Tallevast Road	Sarasota	34243	675	530	10,600	530
Kinnan Elementary School	4	3415 Tallevast Road	Sarasota	34243		145	2,900	
Lee Middle School	A	4000 63rd Avenue West	Bradenton	34207	978	521	10,433	
Lee Middle School	B	4000 63rd Avenue West	Bradenton	34207		442	8,838	
Lee Middle School	C	4000 63rd Avenue West	Bradenton	34207		442	8,838	
Lincoln Middle School	A	305 17th Street East	Palmetto	34221		326	6,520	
Lincoln Middle School	B	305 17th Street East	Palmetto	34221		326	6,520	
Lincoln Middle School	C	305 17th Street East	Palmetto	34221	978	326	6,520	978
Louise Johnson Middle School	5	2121 26th Avenue East	Bradenton	34208	1,640	198	3,960	1,442
Manatee Community College	28	5840 26th Street West	Bradenton	N/A	173	850	1,700	173
Manatee High School	2	1000 32nd Street West	Bradenton	34205	1,853	1,456	29,124	
Manatee High School	3	1000 32nd Street West	Bradenton	34205		677	13,550	
Manatee Technical Institute Medical Complex	1	5520 Lakewood Ranch	Bradenton	N/A	581	581	11,620	
McNeil Elementary	1				1,711	1,711	34,020	
Myakka Elementary School	2	37205 Manatee Avenue	Myakka City	34251	865	0	0	865
Myakka Elementary School	3	37205 Manatee Avenue	Myakka City	34251		290	5,806	
Myakka Elementary School	4	37205 Manatee Avenue	Myakka City	34251		155	3,105	
Myakka Elementary School	6	37205 Manatee Avenue	Myakka City	34251		291	5,820	
Myakka Elementary School	7	37205 Manatee Avenue	Myakka City	34251		127	5,230	
Oneco Elementary School	1	2000 53rd Avenue East	Bradenton	34203	600	0	0	522

County Shelter Information

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)
Oneco Elementary School	4	2000 53rd Avenue East	Bradenton	34203		304	6,068	
Oneco Elementary School	6	2000 53rd Avenue East	Bradenton	34203		304	5,949	
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	
Rowlett Elementary School	1	3500 9th Street East	Bradenton	34208		270	5,933	
Rowlett Elementary School	4	3500 9th Street East	Bradenton	34208		365	7,293	
Rowlett Elementary School	3	3500 9th Street East	Bradenton	34208		530	10,600	
Seabreeze Elementary School	1	3601 71st Street West	Bradenton	34209	1,966	70	1,403	
Seabreeze Elementary School	2	3601 71st Street West	Bradenton	34209		501	10,013	
Seabreeze Elementary School	3	3601 71st Street West	Bradenton	34209		521	10,420	
Seabreeze Elementary School	4	3601 71st Street West	Bradenton	34209		460	9,194	
Seabreeze Elementary School	5	3601 71st Street West	Bradenton	34209		465	9,300	
Southeast High School		1200 37th Avenue East	Bradenton	34208	1,272	0	0	1,272
Tillman Elementary School	3	1415 29th Street East	Palmetto	34221	675	530	10,600	
Tillman Elementary School	4	1415 29th Street East	Palmetto	34221		428	7,923	
Witt Elementary School	3	200 Rye Road	Bradenton	34202	1,332	520	10,394	
Witt Elementary School	4	200 Rye Road	Bradenton	34202		408	8,366	
Witt Elementary School	5	200 Rye Road	Bradenton	34202		437	8,741	
Manatee Technical Institute		5480 Lakewood Ranch Blvd	Bradenton	N/A	290	0	0	
Moody Elementary School		5425 38th Avenue West	Bradenton	34209	1,500	0	0	1,500
TOTALS FOR MANATEE COUNTY					25,596	23,024	433,683	8,979

Year 2004	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	23,024	41,296	-18,272	433,683	825,920	-392,237	DEFICIT

County Shelter Information

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)
Anthony Elementary School		9501 NE Jacksonville Road	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		180	3,590	
Belleview High School, Bldg 3	3	10400 SE 36th Avenue	Belleview	34420	100	89	3,574	0
Belleview High School, Bldg 4	4	10400 SE 36th Avenue	Belleview	34420	100	140	5,631	0
Belleview High School, Bldg 5	5	10400 SE 36th Avenue	Belleview	34420	100	158	3,160	
Belleview Middle School	2	10500 SE 36th Avenue	Belleview	34420	1,150	473	9,479	
Belleview.Middle School	3	10500 SE 36th Avenue	Belleview	34420		430	8,601	
Belleview Middle School	4	10500 SE 36th Avenue	Belleview	34420		534	11,870	
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	5,020	
Dunnellon High School	24	10055 SW 180th Ave Rd	Dunnellon	34432	775	334	6,680	
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 Road	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		1614 SE Fort King Street	Ocala	34470	1,000	0	0	
Fort King Middle School		545 NE 17th Avenue	Ocala	34470	500	0	0	
Fort McCoy Elementary/Middle School		16160 N Highway 315	Fort McCoy	32134	964	0	0	964
Fort McCoy School	4					214	4,280	
Fort McCoy School	5					123	2,460	
Fort McCoy School	6					214	4,280	
Fot McCoy School	8					214	4,280	
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 King	Ocala	34470	850	0	0	

County Shelter Information

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)
Lake Weir High School		10351 SE Maricamp Road	Ocala	34472	1,000	1,102	22,040	
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	286	8,240	
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
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 Avenue	Ocala	N/A	500	0	0	
Our Lady of the Springs		4047 NE 21st Street	Ocala	34470	150	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	1,000	
Saddlewood Elementary School, Bldg 4	4	3700 SW 43rd Court	Ocala	34473	0	219	4,396	
Saddlewood Elementary School, Bldg 6	6	3700 SW 43rd Court	Ocala	34473	0	169	6,768	
Shady Hill Elementary School		5959 S Magnolia Avenue	Ocala	34470	609	0	0	
South Ocala Elementary School		2831 SE Lake Weir Avenue	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		7 NW 28th Street	Ocala	34470	1,000	1,044	20,880	
Ward-Highlands Elementary School		537 SE 36th Street	Ocala	N/A	200	0	0	
Westport High School	1					563	11,261	
Westport Middle School	1	3733 SW 80th Avenue	Ocala	34482		183	7,331	
Wyomina Park Elementary School		511 NE 12th Avenue	Ocala	34470	200	0	0	
			TOTALS FOR MARION COUNTY		23,848	6,970	154,821	1,723

County Shelter Information

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)

Year 2004	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Stotm Category 4/5	6,970	28,188	-21,218	154,821	563,760	-408,939	DEFICIT

County Shelter Information

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)
Bessey Creek Elementary School		2201 SW Matheson Ave	Palm City	34990	1,000	850	17,000	
Challenger School	Hallways, (2,4,5,6,7)	5200 SE Willoughby Blvd	Stuart	34987		271	10,847	
Crystal Lake Elementary School		2095 SW 96th Street	Stuart	34997	1,500	849	16,980	
Felix Williams School		401 NW Baker Street	Stuart	34994	1,500	0	0	
Hidden Oaks Middle School		2801 SW Martin Highway	Palm City	34990	1,515	663	13,261	825
Indiantown Middle School	2	16303 SW Farm Road	Indiantown	34956	375	538	10,752	
Jensen Beach Elementary School		2525 NE Savanna Road	Jensen Beach	34857	1,740	1,450	29,000	
Jensen Beach High School			Jensen Beach	34857	1,750	3,500	70,000	
Morgade Library..	Comm. Rm					115	2,300	
Palm City Elementary School		1951 SW 34th Street	Palm City	34990	825	0	0	
Pinewood Elementary School		5200 SE Willoughby Blvd	Stuart	34997	1,500	1,300	26,000	
Seawind Elementary School		3700 SE Seabranch Blvd	Stuart	33455	850	875	17,500	
South Fork		10205 SW Pratt & Whitney	Stuart	34997	1,200	0	0	
Warfield Elementary School	21	15261 SW 50th Street	Indiantown	34956		860	17,194	
			TOTALS FOR MARTIN COUNTY			13,755	11,271	230,834	825

Year 2004	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	11,271	8266	3,005	230,834	165320	65,514	SURPLUS

County Shelter Information

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)
American Senior High	1	12850 NW 67th Avenue	Miami	33015	1,279	2,558	51,160	
Arvida Middle		10900 SW 127th Avenue	Miami	33186	207	415	8,300	
Ashe, Bowman Elementary School		6601 SW 152nd Avenue	Miami	33193	174	1,386	27,720	
Bent Tree Elementary School		4861 SW 140th Avenue	Miami	33175	394	474	9,480	
Brentwood Elementary School		3131 NW 191st Street	Miami	33056	432	865	17,300	
Bright, James Elementary School		2530 W 10th Avenue	Hialeah	33010	192	1,208	24,160	
Calusa Elementary		9580 W Calusa Club Drive	Miami	33186	247	900	18,000	
Citrus Grove Middle School	1	21153 NW 3rd Street	Miami	33125	2,241	2,641	52,820	
Dario Reuben Middle School						0	0	
Douglas, Marjorie Elementary School		11901 SW 2nd Street	Miami	33184	270	1,569	31,380	
Drew, Charles Middle School		1801 NW 60th Street	Miami	33142	270	1,050	21,000	
Dunbar Elementary School		505 NW 20th Street	Miami	33127	350	786	15,720	
Fascell, Dante Elementary School		15625 SW 80th Street	Miami	33193	700	931	18,620	
Goleman High School	8&9	14100 NW 89th Avenue	Miami	33016	5,273	1,248	24,960	
Goleman Senior High	1					3,750	75,000	
Goleman Senior High	4 & 5					250	5,000	
Greynolds Park Primary Learning Center		1575 NE 177 Street	N Miami Beach	33162	262	519	10,380	
Hall, Joe Elementary School		1901 SW 134th Avenue	Miami	33175	321	914	18,280	
Hammocks Middle School		9889 Hammocks Blvd	Miami	33196	818	1,467	29,340	
Hartner Elementary School		401 NW 29th Street	Miami	33127	445	1,306	26,120	
Hialeah-Miami Lakes High School		7977 W 12th Avenue	Hialeah	33014	1,050	1,264	25,280	
Hoover, Oliver Elementray		9050 Hammocks Blvd	Miami	33196	394	1,273	25,460	
John Ferguson Senior High School						2,800	56,000	
Krop, Michael Senior High School		1410 NE County Line Road	N Miami Beach	33179	750	3,383	67,660	
Lake Stevens Elementary School		5101 NW 183rd Avenue	Miami	33055	588	1,018	20,360	
Lorah Park Elementary School		5160 NW 31st Avenue	Miami	33142	420	840	16,800	
Miami Carol City High School	1	3422 NW 187th Street	Miami	33056	900	500	10,000	
Miami Coral Park High School	1	8865 SW 16th Street	Miami	33165	1,014	1,125	22,500	
Miami Killian High School		10655 SW 97th Avenue	Miami	33176	210	420	8,400	
Miami Northwestern High School	1	7007 NW 13th Avenue	Miami	33150	2,000	3,420	68,400	
Miami Palmetto Senior High		7460 SW 118th Street	Miami	33156	275	2,313	46,260	
Miami Shores Elementary School		10351 NE 5th Avenue	Miami	33138	82	287	5,740	
Miami Southridge Senior High	1	19355 SW 114th Street	Miami	33157	850	700	14,000	
Miami Springs High	1	751 Dove Avenue	Miami Springs	33166	1,150	2,300	46,000	
Miami Sunset High	1	13125 SW 72nd Street	Miami	33183	1,637	3,275	65,500	

County Shelter Information

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)
North Miami Beach High School		1247 NE 167th Street	N Miami Beach	33162	1,115	3,152	63,040	
North Miami High School		800 NE 137th Street	N Miami Beach	33161	553	2,313	46,260	
North Miami Middle School	1	13105 NE 7th Avenue	N Miami Beach	33161	761	450	9,000	
Norwood Elementary School		19810 NW 14th Court	Miami	33169	317	1,027	20,540	
Olinda Elementary School		5536 NW 21st Avenue	Miami	33142	750	1,701	34,020	
Orchard Villa Elementary School		5720 NW 13th Avenue	Miami	33142	650	1,179	23,580	
Palm Lakes Elementary School		7450 W 16th Avenue	Hialeah	33014	338	649	12,980	
Palm Springs North Elementary School		17615 NW 82nd Avenue	Hialeah	33015	540	1,029	20,580	
Pepper, Claude Elementary School		14550 SW 96th Street	Miami	33186	332	1,258	25,160	
Pharr, Kelsey Elementary School		2000 NW 46th Street	Miami	33142	327	569	11,380	
Porter, Gilbert Elementary School		15851 SW 112th Street	Miami	33196	380	1,769	35,380	
Royal Green Elementary School		13047 SW 47th Street	Miami	33175	406	563	11,260	
Ruth Kruse Owens		11001 SW 76th Street	Miami	33173	230	741	14,820	
Shenandoah Elementary School		1023 SW 21st Avenue	Miami	33135	250	500	10,000	
Sheppard, Ben Elementary School		5700 W 24th Avenue	Hialeah	33016	355	1,420	28,400	
South Maim Senior	1					0	0	
Southwood Middle School	1	16301 SW 80th Avenue	Miami	33157	955	1,000	20,000	
Stirrup Elementary School		330 NW 97th Avenue	Miami	33172	323	775	15,500	
Sunshine Pavilion @ Tamiami Park		10901 SW 24th Street	Miami	33165	1,225	2,450	49,000	
Thomas, W. R. Middle School		13001 SW 26th Street	Miami	33175	610	2,050	41,000	
Van Blanton Elementary School	1	10327 NW 11th Avenue	Miami	n/a	575	1,150	23,000	
Village Green Elementary School		12265 SW 34th Street	Miami	33175	198	565	11,300	
						0	0	
Darlo, Ruben Middle		350 NW 97th Avenue	Miami	33172	250	250	10,000	
Florida Int University (Univ Park Campus)		11200 SW 8th Street	Miami	33165	700	0	0	
Highland Oaks Middle School		2375 NE 203rd Street	N Miami Beach	33180	250	250	10,000	
Marti, jose Middle		5701 W 24th Avenue	Hialeah	33016	250	500	10,000	
McMillan Middle School		13100 SW 59th Street	Miami	33183	250	500	10,000	
Miami Edison High School		6161 NW 5th Court	Miami	33127	250	500	10,000	
South Miami High School	1	68566 SW 53rd Street	Miami	n/a	1,250	2,000	40,000	
School "GGG" at Hialeah Senior						1,200	24,000	
School "JJ" at Doral Middle						1,360	27,200	
School "LL" at Lawton Chiles Middle						500	10,000	
School "EEE" Felix Vareia Senior						2,913	58,260	

County Shelter Information

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)
Booker T. Washington Senior High Conv						1,200	24,000	
School "HHH" Robert.Morgan Tech Senior						2,800	56,000	
Miami -Dade Homeless Assistance center						1,000	20,000	
TOTALS FOR MIAMI-DADE COUNTY					39,585	90,438	1,818,760	0

Year 2004	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	90,438	59,480	30,958	1,818,760	1,189,600	629,160	SURPLUS

County Shelter Information

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)
Florida Int University (Univ Park Campus)[2]		11200 SW 8th Street	Miami	33165	700	700	14,000	0
Sugarloaf	16					0	0	
Switlike ES	10					0	0	
TOTALS FOR MONROE COUNTY					700	700	14,000	0

Year 2004	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	700	4,894	-4,194	14,000	97,880	-83,880	DEFICIT

County Shelter Information

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)
Bryceville Elementary School		1 Church Avenue	Bryceville	N/A	68	0	0	68
Callahan Elementary School		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	436	6,537	156
Callahan Middle School		SR 115	Callahan	N/A	1,417	0	0	1,417
Hillard Middle School	15	106 W Illinois	Hilliard	N/A	1,247	345	13,803	588
Hilliard Elementary School	1	112 Ohio Street	Hilliard	N/A	156	436	6,537	156
West Nassau High School	1	1 Warrior Drive	Callahan	N/A	1,272	690	13,803	666
Yulee Elementary School		389 Felmore Road	Yulee	N/A	0	0	0	0
Yulee Middle School *		321 Miner Rd	Yulee	32097	491	1,831	36,627	491
Yulee Primary School		964 Goodbread Drive	Yulee	N/A	200	0	0	200
*Replacement school for one on US17						0	0	
TOTALS FOR NASSAU COUNTY					5,333	3,738	77,307	4,068

Year 2004		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		3,738	4,740	-1,002	77,307	94,800	-17,493	DEFICIT
Storm Category 5		3,738	4,996	-1,258	77,307	99,920	-22,613	DEFICIT

County Shelter Information

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)
Addie Lewis Middle School		281 Mississippi Avenue	Valparaiso	N/A	1,500	0	0	413
Antioch Elementary School		4700 Whitehurst Lane	Crestview	32536	1,500	750	15,000	626
Baker High School		1369 14th Street	Baker	N/A	2,500	0	0	761
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
Davidson Middle		6261 Old Bethel Rd	Crestview	32536	1,729	0	0	1,729
First Baptist Church		444 Highway 190	Valparaiso	32580	300	0	0	329
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	
Shalimar Elementary School		1350 Joe Martin Circle	Shalimar	32579	300	50	1,000	510
Crestview High School		1304 N Ferdon Boulevard	Crestview	32536	3,500	0	0	1,733
TOTALS FOR OKALOOSA COUNTY					15,247	800	16,000	8,434

Year 2004	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	800	12,946	-12,146	16,000	258,920	-242,920	DEFICIT

County Shelter Information

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)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
American Legion Post #64		501 SE 2nd Street	Okeechobee	N/A	200	0	0	200
Everglades Elementary School		3725 SE 8th Street	Okeechobee	N/A	222	0	0	222
First Baptist Church	Fam Life	401 SW 4th Stree	Okeechobee	N/A	122	507	10,140	122
Ft. Drum Community Church		32415 Highway 441 North	Okeechobee	N/A	120	0	0	120
Moose Lodge		159 NW 36th STreet	Okeechobee	N/A	133	0	0	133
North Elementary School		3000 NW 10th Terrace	Okeechobee	N/A	500	0	0	500
Okeechobee High School		2800 Highway 441 North	Okeechobee	N/A	1,737	0	0	1,049
Osceola Middle School	3	825 SW 21st Street	Okeechobee	N/A	2,071	298	5,960	1,191
Osceola Middle School	6	825 SW 21st Street	Okeechobee	N/A		297	5,940	
Osceola Middle School	7	825 SW 21st Street	Okeechobee	N/A		298	5,960	
Presbyterian Church		312 N Parrot Avenue	Okeechobee	N/A	133	0	0	133
Sacred Heart Catholic Church		701 SW 6th STrret	Okeechobee	N/A	667	0	0	667
Seminole Elementary School		2690 NW 42nd Avenue	Okeechobee	N/A	222	0	0	222
South Elementary School	15	575 SW 28th Street	Okeechobee	N/A	500	1,011	20,215	500
Yearling Middle School		925 NW 23rd Lane	Okeechobee	N/A	700	500	10,000	700
						0	0	500
Public Health Center		1728 NW 9th Avenue	Okeechobee	34972	500	0	0	
Freshman Center Auditiorium	N					332	6,635	
Douglas Brown Comm. Center						0	0	
TOTALS FOR OKEECHOBEE COUNTY					7,827	3,243	64,850	6,259

Year 2004	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	3,243	19,480	-16,237	64,850	389,600	-324,750	DEFICIT

County Shelter Information

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)
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	32792	310	0	0	
American Legion #63		214 W Plant Street	Winter Park	N/A	153	0	0	
Apopka High School		555 Martin Street	Apopka	N/A	1,095	0	0	
Apopka Middle School		425 N Park Avenue	Apopka	N/A	561	0	0	
Asbury United Methodist Church		220 Horatio Avenue	Maitland	N/A	333	0	0	
Azalea Park Methodist Church		50 Willow Park	Orlando	N/A	182	0	0	
Barnett Park Community Center		4801 W Colonial Drive	Orlando	N/A	186	0	0	
Bishop Moore High School		3901 Edgewater Drive	Orlando	N/A	993	0	0	
Bithlo Park Building		18501 Washington Avenue	Orlando	N/A	180	0	0	
Blankner School	2	2500 South Mills Ave	Orlando	32806	260	260	10,417	
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	0	0	
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	
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	32824	614	614	12,280	
Cypress Creek High School	gym	1101 Bear Crossing	Orlando	32824	634	634	12,680	
Discovery Middle School		601 Woodbury Road	Orlando	N/A	618	0	0	
Dr. Phillips High School	cafeteria	6500 Turkey Lake Road	Orlando	32819	546	546	10,920	
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 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	

County Shelter Information

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)
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	
Freedom High					710	710	14,200	
Fort Gatlin Recreation Center		2009 Lake Margaret Drive	Orlando	N/A	100	0	0	
Glenridge Middle School		801 Glenridge Way	Winter Park	N/A	702	0	0	
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	
Lake Buena Vista Baptist Church		11551 State Road 535 North	Orlando	N/A	92	0	0	
Lakeview Middle - Org		1200 West Bay Street	Winter Garden	N/A	602	0	0	
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 Cr	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	0	0	
Ocoee United Methodist Church		124 W Floral Street	Ocoee	N/A	202	0	0	
Odyssey Middle School	3-gym	9290 Lee Vista	Orlando	32822	559	559	11,198	
Olympia High School	7-Gym	4301 S. Apopka-Vineland	Orlando	32835	710	710	14,200	

County Shelter Information

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)
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	
South Orlando Baptist Church		11513 S Orange Blossom Tr	Orlando	N/A	720	0	0	
Springs Community Baptist Church		2320 N Rock Springs	Apopka	N/A	2,880	0	0	
St Francis of Assisi		834 South Highway 441	Apopka	N/A	160	0	0	
St James Catholic Church		215 North Orange Avenue	Orlando	N/A	173	0	0	
St Johns Vianney Church		6200 S Orange Boulevard	Orlando	N/A	661	0	0	
St Lukes United Methodist		4851 S Apopka-Vineland	Orlando	N/A	160	0	0	
St Margaret Mary Catholic Church		526 N Park Avenue	Winter Park	N/A	120	0	0	
St Pauls Presbyterian Church		1450 Citrus Oaks Avenue	Ocoee	N/A	100	0	0	
St Stephens Presbyterian Church		8601 Lake Underhill Road	Orlando	N/A	167	0	0	
S.W. Middle School		6450 Dr. Phillips Boulevard	Orlando	N/A	541	0	0	
Tangelo Baptist Church		7001 Ravenna Avenue	Orlando	N/A	78	0	0	
Timber Creek High School	7-Gym	1001 Avalon Boulevard	Orlando	32828	710	710	14,200	
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	100/200	1844 Westfall Drive	Orlando	32817	450	450	9,000	
Union Park Middle School	Classrooms	1844 Westfall Drive	Orlando	32817	696	0	0	
University High School	cafeteria	11501 Easterwood Drive	Orlando	32817	329	329	6,591	
University High School	Gym	11501 Easterwood Drive	Orlando	32817	612	612	12,240	
University High School		11501 Easterwood Drive	Orlando	32817	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	cafeteria	150 Amidon Lane	Orlando	32809	186	186	3,729	
Walker Middle School	Food Serv	150 Amidon Lane	Orlando	32809	696	0	0	

County Shelter Information

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)
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	0	0	
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	
			TOTALS FOR ORANGE COUNTY		56,429	6,320	131,655	0

Year 2004	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	6,320	13,938	-7,618	131,655	278,760	-147,105	DEFICIT

County Shelter Information

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)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Beaumont Middle School		330 North Beaumont	Kissimmee	34741	0	0	0	
Boggy Creek Elementary School		810 Florida Parkway	Kissimmee	34741	0	0	0	
Celebration School		851 Celebration Avenue	Celebration	34747	1,050	0	0	
Celebration High	Gym					2,000	40,000	
Central Avenue Elementary School		1502 N Central Avenue	Kissimmee	34741	402	1,751	35,010	
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 School		5350 San Migel	Kissimmee	34758	1,027	770	15,405	
Gateway High School		801 Bill Beck Boulevard	Kissimmee	34744	620	0	0	
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		2020 Ham Brown Road	Kissimmee	34746	1,166	875	17,496	
Kissimmee Elementary School		2420 Dyer Boulevard	Kissimmee	34741	498	374	7,470	
Kissimmee Middle School		2410 Dyer Boulevard	Kissimmee	34741	1,166	875	17,496	
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	
Narcoossee Community School		2700 N Narcoossee Rd	St. Cloud	34771	946	710	14,190	
Neptune Middle School		2727 Neptune Road	Kissimmee	34744	424	0	0	
Osceola Elementary "C"						1,000	20,000	
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	561	11,220	
Pleasant Hill Elementary School		1253 Pleasant Hill Road	Kissimmee	34746	435	0	0	
Poinciana High School		2300 S Poinciana Blvd	Kissimmee	34758	750	0	0	
Reedy Creek Elementary School		2300 Brook Court	Kissimmee	34758	1,880	1,410	28,200	
Ross E. Jeffries School		1200 Vermont Avenue	St. Cloud	34769	250	0	0	
St. Cloud High School		2000 Bulidog Lane	St. Cloud	34769	635	0	0	
St. Cloud Middle School		1975 S Michigan Avenue	St. Cloud	34769	750	0	0	
Multi-use Shelter/St. Cloud						500	10,000	
Thacker Elementary School		301 Thacker Avenue	Kissimmee	34741	345	0	0	
Ventura Elementary School		275 Water Edge Drive	Kissimmee	34743	500	0	0	
TOTALS FOR OSCEOLA COUNTY					18,675	10,824	216,487	0

County Shelter Information

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)	Risk Capacity In People (Does not Meet ARC 4496 or Not Yet Surveyed)
Year 2004		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		10,824	9,885	939	216,487	197,700	18,787	SURPLUS

County Shelter Information

PALM BEACH								
Name	Bldg #	Address	City	Zip	Host Capacity in People	Total Risk Capacity in People (Meets ARC 4496)	Total Risk Capacity (ft²) (Meets ARC 4496)	Risk Capacity in People (Does not Meet ARC 4496 or Not Yet Surveyed)
Bear Lakes Middle School	1,2,3,4, G	3505 Shenandoa Boulevard	W Palm Beach	33409	1,600	1,600	32,000	
Bibletown Community Church		407 NW 4th Avenue	Boca Raton	33486	450	0	0	
Boca Raton High School	4, Aud, Caf,5	1501 NW 15th Ct	Boca Raton	33486		4,390	87,800	
Boynton Beach High School		4975 Park Ridge Boulevard	Boynton Beach	33462	2,720	2,720	54,400	
Carver Middle School	2,4,6,8	101 Barwick Road	Delray Beach	33445	1,460	1,460	29,200	
Christa McCauliffe Middle School	1,2,3,4	6500 Le Chalet Boulevard	Boynton Beach	33437	1,600	1,600	32,000	
Discovery Key Elementary School		3550 Lyons Road	Lake Worth	33467	800	800	16,000	
Frontier Elementary School		6701 180th Avenue, North	Loxahatchee	33470	800	800	16,000	
Glades Central High School	4, 5	1001 SW Avenue M	Belle Grade	33430	3,800	3,800	76,000	
Good Shepard Church		1800 Bacom Point Road	Pahokee	33476	56	0	0	
Heritage Elementary School		5100 Melaleuca Lane	Greenacres	33463	500	0	0	
Independence Middle		4001 Greenway Drive	Jupiter	33458		410	8,200	
Lake Worth Middle School	1,2,3,4	1300 Barnett Drive	Lake Worth	33460	1,600	1,600	32,000	
Lakeshore Middle School	2,3,4,7, Z	425 West Canal Street	Belle Grade	33430	2,800	2,800	56,000	
McLeod Bethune Elementary School		1501 Avenue U	Riviera Beach	33404	500	0	0	
North Grade Elementary School		824 North K Street	Lake Worth	33460	500	0	0	
Odyssey Middle School		6161 Woolbright Road	Boynton Beach	33437	515	515	10,300	
Olympic Heights Comm. HS		20101 Lyons Road	Boca Raton	33437	1,900	1,900	38,000	
Omni Middle School	C, D,F, G	5775 Jog Road	Boca Raton	33496	1,600	1,600	32,000	
Pahokee Community Center		360 East 1st Street	Pahokee	33476	100	0	0	
Palm Beach Community College		4200 Congress Avenue	Lake Worth	33461	371	0	0	
Palm Beach Central High School	4,5,6,7	8499 W. Forest Hill Blvd.	Wellington	33411		5,750	115,000	
Palm Beach Gardens Community Center		4404 Burns Road	Palm Bch Gardens	33410	600	0	0	
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	
South Florida Fair Grounds		9067 Southern Boulevard	W Palm Beach	33411	500	500	10,000	
Spanish River Presbyterian Church		2400 Yamato Road	Boca Raton	33434	373	0	0	
W.B. Duncan Middle School	3,4,6,7	5150 117th Court North	Palm Bch Gardens	33418	1,600	1,600	32,000	
Wellington Lands Middle School	1,2,3, 4	1100 Areo Club Drive	W Palm Beach	33414	1,600	1,600	32,000	
Westgate Elementary School		1545 Loxahatchee Drive	W Palm Beach	33409		720	14,400	
Wm. T. Dwyer High School	1, 2, 8	13601 N Military Trail	Palm Bch Gardens	33418	1,900	1,900	38,000	
96B - Acreage						0	0	
99L						0	0	

County Shelter Information

PALM BEACH								
97D						0	0	
97J						0	0	
97K						0	0	
97M						0	0	
West Gate						0	0	
			TOTALS FOR PALM BEACH COUNTY		31,602	38,065	761,300	0

Year 2004	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	38,065	42,014	-3,949	761,300	840,280	-78,980	DEFICIT

County Shelter Information

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)[1]	Risk Capacity in People (Does not Meet ARC 4496 or Not Yet Surveyed)
Anclote Elementary School		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	181	3,820	
Centennial Elementray School		38501 Centennial Road	Dade City	33525	0	0	0	0
Centennial Middle School	2	38501 Centennial Road	Dade City	33525	1232	1,232	24,640	
Chasco Elementray/Middle School	2-2nd flr	7720 Ridge Road	New Port Richey	34654	550	550	11,000	
Chasco Elementray/Middle School	2-1st flr	7720 Ridge Road	New Port Richey	34654	275	138	5,500	
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	292	5,840	
Denham Oaks Elementary School	2	14220 Oak Grove Blvd	Lutz	33548	478	478	9,560	
Denham Oaks Elementary School	3	14220 Oak Grove Blvd	Lutz	33548	184	184	3,680	
Denham Oaks Elementary School	5	14220 Oak Grove Blvd	Lutz	33548	244	244	4,480	
Denham Oaks Elementary School	6	14220 Oak Grove Blvd	Lutz	33548	430	430	8,600	
Denham Oaks Elementary School	7	14220 Oak Grove Blvd	Lutz	33548	260	260	5,200	
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	
Lacoochee Elementary School	11	38815 Cummer Road	Lacoochee	33525	138	158	3,160	751
Lacoochee Elementary School	12	38815 Cummer Road	Lacoochee	33525	503	503	10,060	
Lacoochee Elementary School	13	38815 Cummer Road	Lacoochee	33525	110	158	3,160	
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	204	4,080	610
Pasco High School	17	36850 SR 52	Dade City	33525	296	296	5,920	
Pasco High School	18	36850 SR 52	Dade City	33525	110	110	2,200	
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	173	3,460	
Raymond B. Stewart Middle School	9A	38505 Tenth Avenue	Zephyrhills	33540	112	122	2,440	364
Raymond B. Stewart Middle School	10	38505 Tenth Avenue	Zephyrhills	33540	375	242	4,840	
River Ridge Middle/High School	1	11646 Town Center Road	New Port Richey	34654	240	240	4,800	3,507
River Ridge Middle/High School	2	11646 Town Center Road	New Port Richey	34654	527	527	10,540	
River Ridge Middle/High School	3	11646 Town Center Road	New Port Richey	34654	874	824	16,480	
River Ridge Middle/High School	4	11646 Town Center Road	New Port Richey	34654	468	468	9,360	
River Ridge Middle/High School	5	11646 Town Center Road	New Port Richey	34654	401	401	8,020	

County Shelter Information

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)[1]	Risk Capacity in People (Does not Meet ARC 4496 or Not Yet Surveyed)
River Ridge Middle/High School	23-1st fl	11646 Town Center Road	New Port Richey	34654	333	333	13,320	
River Ridge Middle/High School	23-2nd	11646 Town Center Road	New Port Richey	34654	666	600	12,000	
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	295	5,900	
Saint Leo University	3	33701 SR 52	St Leo	33525	353	0	0	2,823
Saint Leo University		33701 SR 52	St Leo	33525	349	349	6,980	
Saint Leo University	17	33701 SR 52	St Leo	33525	340	0	0	
Saint Leo University	19	33701 SR 52	St Leo	33525	161	161	3,220	
Saint Leo University	22	33701 SR 52	St Leo	33525	0	0	0	
Saint Leo University	24	33701 SR 52	St Leo	33525	168	168	3,360	
Seven Springs Middle School	C	2441 Little Road	New Port Richey	34654	1,180	1,180	23,600	
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	541	10,820	1,526
Thomas Weightman Middle School	2	30649 Wells Road	Zephyrhills	33544	150	150	6,000	
Thomas Weightman Middle School	3	30649 Wells Road	Zephyrhills	33544	425	137	2,740	
Thomas Weightman Middle School	4	30649 Wells Road	Zephyrhills	33544	28	548	10,960	
Thomas Weightman Middle School	5	30649 Wells Road	Zephyrhills	33544	130	293	5,860	
Thomas Weightman Middle School	6	30649 Wells Road	Zephyrhills	33544	28	379	7,580	
Thomas Weightman Middle School	8	30649 Wells Road	Zephyrhills	33544	28	548	10,960	
Trinity ES		2209 Duck Slough Blvd	New Port Richey	34654	1170	1,170	23,400	
Wesley Chapel High School	1	30651 Wells Road	Wesley Chapel	33544	252	102	2,040	
Wesley Chapel High School	1	30651 Wells Road	Wesley Chapel	33544	150	150	6,000	
Wesley Chapel High School	2	30651 Wells Road	Wesley Chapel	33544	1228	1,228	24,560	
Wesley Chapel High School	3	30651 Wells Road	Wesley Chapel	33544	1143	1,143	22,860	
Wesley Chapel High School	5	30651 Wells Road	Wesley Chapel	33544	370	370	7,400	
Wesley Chapel High School		30651 Wells Road	Wesley Chapel	33544	387	387	7,740	
Zephyrhills High School	11	6335 12 Street	Zephyrhills	33540	117	117	2,340	1,740
Zephyrhills High School	1	6335 12 Street	Zephyrhills	33540	3623	3,623	72,600	
Zephyrhills High School	1	6335 12 Street	Zephyrhills	33540	176	176	7,040	
Pineview Elementary School		5333 Parkway Blvd	Land O'Lakes	33549	1227	0	0	
Schrader Elementary School		11041 Little Rd	New Port Richey	34654	850	850	17,000	850
			TOTALS FOR PASCO COUNTY		39,855	23,413	487,120	22,965

County Shelter Information

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)[1]	Risk Capacity in People (Does not Meet ARC 4496 or Not Yet Surveyed)
Year 2004		Shelter Capacity in People	Shelter Demand in People	Surplus/ Deficit in	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result
Storm Category 4		23,413	62,024	-38,612	487,120	1,240,480	-753,360	DEFICIT
Storm Category 5		23,413	63,866	-40,454	487,120	1,277,320	-790,200	DEFICIT

County Shelter Information

PINELLAS								
Name	Bldg. #	Address	City	Zip	Host Capacity in People	Total Risk Capacity in People (Meets ARC 4496)[1]	Total Risk Capacity (ft^2) (Meets ARC 4496)	Risk Capacity in People (Does not Meet ARC 4496 or Not Yet Surveyed)
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	700	14,000	105
Bauder Elementary School	1	12755 86 Avenue North	Seminole	33776	470	670	13,400	336
Boca Ciega High School		934 58 Street South	Gulfport	33707	1,551	0	0	1,040
Boca Ciega High School		934 58 Street South	Gulfport	33707		0	0	
Brooker Creek E S	4					342	6,840	
Brooker Creek E S	5					342	6,840	
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
Carwise Middle School		3301 Bentley Drive	Palm Harbor	34684		0	0	
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	10,000	1,626
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&5	2350 22 Ave S	St Petersburg	33714	736	736	14,710	
Dunedin MS	All	896 Union St	Dunedin	34698	2500	2,500	50,000	
East Lake High School	2,3,5,9	1300 Silver Eagle Drive	Tarpon Springs	34689	2,246	2,225	44,500	1,452
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	736	14,710	
Fairmont Park Elementary School		575 41 Street South	St Petersburg	33711	373	0	0	373
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	1,876	0	0	1,268
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
John Hopkins Middle School	5&6	701 16 Street South	St Petersburg	33705	1,410	2,400	48,000	703
Kennedy Middle School	1	1660 Palmetto Street	Clearwater	33755	868	1,900	38,000	868
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	700	14,000	1,665

County Shelter Information

PINELLAS								
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)
Largo Middle School	8,9,10,11	115 8 Avenue SE	Largo	33771	2,390	1,565	31,300	1,751
Lealman Elementary School		4001 58 Avenue North	St Petersburg	33714	798	0	0	798
Leila Davis Elementary School		2630 Landmark Drive	Clearwater	34621	1,902	0	0	1,206
McMullen Booth E S	4					342	6,840	
McMullen Booth E S	5					342	6,840	
Meadowlawn Middle School		5900 16 Street North	St Petersburg	33703	786	0	0	546
Meadowlawn Middle School		5900 16 Street North	St Petersburg	33703	2500	2,500	50,000	
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	1,382	0	0	1,382
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
Palm Harbor University HS	1 & 5	1900 Omaha Street	Palm Harbor	34683	2,050	2,050	41,000	1,128
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
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
Sanderlin ES	4&5	1200 37 St S	St Petersburg	33712	736	736	14,710	
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	1,436	28,720	742
Seminole Recreation Center		9100 113 Street North	Seminole	33772	685	0	0	390

County Shelter Information

PINELLAS								
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)
Sexton ES	4 & 5					684	13,680	
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
Tarpon Springs Middle School	4 & 5	500 N Florida Avenue	Tarpon Springs	34689	1,654	1,820	36,400	454
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					79,810	35,526	715,490	48,861

Year 2004	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	35,526	123,727	-88,201	710,520	2,474,540	-1,764,020	DEFICIT
Storm Category 5	35,526	129,053	-93,527	715,490	2,581,060	-1,865,570	DEFICIT

County Shelter Information

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 4496 or Not Yet Surveyed)
Alta Vista Elementary School		801 S Scenic Highway	Haines City	33844	655	0	0	164
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		1270 S Broadway	Bartow	33830	444	0	0	110
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
Churchwell Elementary School		8201 Park Byrd Road	Lakeland	33809	1,037	0	0	259
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
Dr. N.E. Roberts Elementary	2,4,6					2,237	44,744	
Eastside Elementary School		1820 E Johnson Avenue	Haines City	33844	375	0	0	94
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	18	2800 Hornet Drive	Haines City	33844		0	0	
Haines City High School	cafeteria	2800 Hornet Drive	Haines City	33844	904	904	18,089	
James Stephens Elementary School		1350 N Maple Street	Bartow	33830	1,500	0	0	375
Jewett Academy		601 Avenue T NE	Winter Haven	33881	303	1,745	34,917	76
Karen Siegel Academy	cafeteria	SR 557	Lake Alfred	33850	30	30	1,503	
Kathleen High School		2600 N Crutchfield Road	Lakeland	33809	934	0	0	234
Kathleen Middle School		3627 Kathleen Pine Road	Lakeland	33810	131	0	0	35
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 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

County Shelter Information

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 4496 or Not Yet Surveyed)
Lake Region High School	1	1995 Thunder Road	Eagle Lake	33839		0	0	
Lake Region High School	2	1995 Thunder Road	Eagle Lake	33839		473	9,460	
Lake Region High School	3	1995 Thunder Road	Eagle Lake	33839		514	10,280	
Lake Region High School	4	1995 Thunder Road	Eagle Lake	33839		568	11,360	
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
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
McLaughlin Middle School		800 S 4th Street	Lake Wales	33853	162	0	0	41
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
Padgett Elementary School		110 Leelon Street	Lakeland	33809	340	0	0	85
Polk City Elementary School		125 S Bougenvilla Avenue	Polk City	33868	100	0	0	25
R.B. Wagner Elementary	2,4,6					2,237	44,744	
Ridgeview Elementary	2					643	8,800	
Ridgeview Global Studies Academy	2,6	1000 Dunson Rd.	Davenport	33837	1,232	589	11,792	
Rochelle School of Arts		1501 MLK Avenue	Lakeland	33805	158	0	0	40
Roosevelt Vocational		115 E Street	Lake Wales	33853	204	0	0	51
Sandhill Elementary	2,6	1801 Tyner Rd.	Haines City	33844	1,232	589	11,792	
Sandhill Elementary	2	1801 Tyner Rd.	Haines City	33844		643	8,800	
Scott Lake Elementary School		1140 SR 540A	Lakeland	33813	1,193	0	0	298
Southwest Middle School		2815 S Eden Parkway	Lakeland	33803	379	0	0	95
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	
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
			TOTALS FOR POLK COUNTY		37,896	11,172	216,281	5,611

Year 2004	Shelter Capacity in People	Shelter Demand in People	Surplus/ Deficit in People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Result

County Shelter Information

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 4496 or Not Yet Surveyed)
Storm Category 4/5		11,172	41,840	-30,668	216,281	836,800	-620,519	DEFICIT

County Shelter Information

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)
Browning-Pearce Elementary School	4	100 Beer Boulevard	San Mateo	32187	400	400	8,000	
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	325	6,500	
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	
Q I Roberts MS		SR100				1,300	26,000	
Kelly Smith Elementary School		141 Kelly Smith Road	Palatka	32177	1,072	0	0	
			TOTALS FOR PUTNAM COUNTY		6,022	2,025	40,500	0

Year 2004	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	2,025	9,487	-7,462	40,500	189,740	-149,240	DEFICIT

County Shelter Information

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)
Allen Nease High School		10550 Ray Road	St. Augustine	n/a	400	0	0	800
Bartram Trail High School	Gym	2050 Roberts Road	Jacksonville	n/a	250	500	20,320	0
Cunningham Creek Elementary School		1205 Roberts Road	St. Augustine	32259	400	1,200	24,000	0
Durbin Creek Elementary	1	3810 Race Track Road	Jacksonville	32259	200	400	15,000	
First Coast Technical Institute	C	2980 Collins Avenue	St. Augustine	n/a	125	220	9,000	
Fruit Cove Elementary	Gym		St. Augustine			500	20,320	
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					400	16,000	
Julington Creek Elementary		2316 Racetrack Road	St. Augustine	n/a	300	0	0	600
Mill Creek Elementary School		3750 Nine Mile Road	St. Augustine	32092	400	1,200	24,000	0
Murray Middle School		150 N. Holmes Blvd	St. Augustine	n/a	94	0	0	189
Osceola Elementary School		655 SR 207	St. Augustine	32095	400	1,200	24,000	0
Otis Mason Elementary School		SR 207 & I-95	St. Augustine	32086	400	1,200	24,000	0
Pedro Menendez High School	Gym	600 SR-206 West	St. Augustine	n/a	250	500	20,320	0
Sebastian Middle School		2955 Lewis Speedway	St. Augustine	n/a	400	0	0	800
St. Augustine High School		3205 Varella Avenue	St. Augustine	n/a	400	0	0	800
St. Johns County Agricultural Center		3125 Agricultural Center Dr	St. Augustine	32092	110	0	0	
Switzerland Point Middle School		146 N Orange Street	St. Augustine	32095	400	0	0	0
Webster Elementary		420 North Orange Street	St. Augustine	n/a	40	0	0	80
TOTALS FOR ST. JOHNS COUNTY					5,136	7,320	196,960	3,604

Year 2004	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	7,320	9829	-2,509	196,960	196580	380	DEFICIT

County Shelter Information

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)
Bayshore Elementary School	1	1661 SW Bayshore Blvd	Port St. Lucie	34984	100	220	4,400	150
C.A. Moore Elementary School	Café	827 N 29th Street	Ft. Pierce	34947	0	412	8,240	0
Dale Cassins School		1901 S 11th Street	Ft. Pierce	34947	100	0	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	411	8,220	100
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
Lakewood Park Elementary School	1	7800 Indrio Road	Ft. Pierce	34951	150	215	4,300	200
Lincoln Park Academy		1806 Avenue	Ft. Pierce	34950	100	0	0	100
Manatee Elementary School	1	1450 SW Heatherwood	Port St. Lucie	34986	300	215	4,300	350
Mariposa Elementary School	1	2620 SE Maripose Avenue	Port St. Lucie	34952	400	225	4,500	475
Morningside Elementary School	1	2300 SE Gowin Drive	Port St. Lucie	N/A	160	215	4,300	200
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	220	4,400	150
Port St. Lucie Community Center		2195 SE Airoso Boulevard	Port St. Lucie	34984	120	0	0	120
Port St. Lucie High School		1201 SE Leennard Road	Port St. Lucie	34952	150	0	0	150
Savanna Ridge ES	café	6801 Lennard Rd	Port St. Lucie	34982	516	516	10,320	
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 School	1	1700 Lennard Road	Port St. Lucie	34952	100	220	4,400	150
Weatherbee ES	café	800 E. Weatherbee Rd	Port St. Lucie	34982	576	576	11,520	
Westwood High School	1	1801 Panther Lane	Ft. Pierce	34947	500	632	12,640	500
White City Elementary School		905 W 2nd Street	Ft. Pierce	34982	50	0	0	50
Windmill Point Elementary School	1	700 Darwin Boulevard	Port St. Lucie	34983	100	220	4,400	150
TOTALS FOR ST. LUCIE COUNTY					4,742	4,297	85,940	4,465

Year 2004	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	4,297	6,662	-2,365	85,940	133,240	-47,300	DEFICIT

County Shelter Information

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)
Avalon Middle School	37	5445 King Arthur's Way	Milton	32583	2832	1,846	36,911	2832
Dixon Intermediate School	33	5540 Education Road	Pace	32571	2,656	2,193	43,855	2,656
King Middle School		5928 Stewart Street	Milton	32570	1,717	0	0	1,717
Milton High School		5445 NW Stewart Street	Milton	32570	1,653	214	0	1,653
Thomas L. Sims Middle School	31	5500 Education Drive	Pace	32571	2,567	1,898	25,329	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	1,000	20,000	
Milton Disaster Center						0	0	
TOTALS FOR SANTA ROSA COUNTY					12,287	7,151	126,095	11,675

Year 2004	Shelter Capacity In People	Shelter Demand In People	Surplus/ Deficit In People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Results
Storm Category 4/5	7,151	8,957	-1,806	126,095	179,140	-53,045	DEFICIT

County Shelter Information

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)
Alta Vista Elementary School		1050 South Euclid Avenue	Sarasota	34237	310	0	0	
ARC Chapter		2001 Cantu Court	Sarasota	34232	200	0	0	200
Ashton Elementary School	2	5101 Aston Road	Sarasota	34223	793	793	13,900	
Ashton Elementary School	1	5101 Aston Road	Sarasota	34223	844	844	16,880	
Booker Elementary School	6	2350 Martin Luther King Way	Sarasota	34234		0	0	544
Booker High School		3201 N Orange Avenue	Sarasota	34234	469	0	0	460
Booker Middle School	6	2250 Myrtle Street	Sarasota	34234	475	475	9,500	
Booker Middle School	7	2250 Myrtle Street	Sarasota	34234	400	400	8,000	
Brookside Middle School	4	3636 S Shade Avenue	Sarasota	34293	2,189	1,459	7,100	
Brookside Middle School	5	3636 S Shade Avenue	Sarasota	34293		730	3,500	
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	
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	750	15,000	
Glennallen Elementary	#1, Sec 400	7050 Glenallen Boulevard	North Port	34287	1221	428	8,078	
Glennallen Elementary	#1, Sec300	7050 Glenallen Boulevard	North Port	34287		428	8,547	
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	Several	6500 Lockwood Ridge Rd	Sarasota	34231	2,113	2,470	49,000	
Gulf Gate Elementary School	Cafeteria	6500 Lockwood Ridge Rd	Sarasota	34231		270	5,338	
Lakeview Elementary School	#1, Sec 300	7299 Proctor Road	Sarasota	34241	1,404	428	8,547	
Lakeview Elementary School	#1, Sec 400	7299 Proctor Road	Sarasota	34241		404	8,078	
Lakeview Elementary School	#1, Sec 500	7299 Proctor Road	Sarasota	34241		398	7,949	
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 Glenallen Elementary School		7050 Glenallen Boulevard	North Port	34287	1,100	0	0	
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	
Oak Park School	2A	7285 Proctor Road	Sarasota	34241		210	8,407	1,597

County Shelter Information

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)
Oak Park School	2B	7285 Proctor Road	Sarasota	34241		166	6,655	
Oak Park School	3A	7285 Proctor Road	Sarasota	34241		253	10,125	
Oak Park School	3B	7285 Proctor Road	Sarasota	34241		226	9,056	
Oak Park School	4	7285 Proctor Road	Sarasota	34241		162	6,480	
Pineview School	1	501 Old Venice Road	Osprey	34229	1,932	325	6,507	1,932
Pineview School	2	501 Old Venice Road	Osprey	34229		290	5,426	
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		350	6,814	
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	2,828	56,551	
Sarasota High School	14	1000 South School Avenue	Sarasota	34237		2,505	50,094	
Sarasota Middle School	4	4826 Ashton Road	Sarasota	34233		350	7,012	
Sarasota Middle School	6	4826 Ashton Road	Sarasota	34233		464	9,265	
Sarasota Middle School	7	4826 Ashton Road	Sarasota	34233		389	7,780	
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	
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		251	5,033	
Taylor Ranch Elementary School	6	2500 Taylor Ranch Road	Venice	34293		416	8,320	
The Tabernacle		4141 Desoto Road	Sarasota	34235	300	0	0	300
Toledo Blade ES	1	1201 Geranium Avenue	North Port	34287		320	6,400	
Toledo Blade ES	3	1201 Geranium Avenue	North Port	34287		199	3,978	
Toledo Blade ES	4	1201 Geranium Avenue	North Port	34287		306	6,125	

County Shelter Information

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)
Toledo Blade ES	5	1201 Geranium Avenue	North Port	34287		425	8,500	
Toledo Blade ES	6	1201 Geranium Avenue	North Port	34287		416	8,320	
Toledo Blade ES	7	1201 Geranium Avenue	North Port	34287		306	6,125	
Toledo Blade ES	10	1201 Geranium Avenue	North Port	34287		322	6,400	
Tuttle Elementary School	1&2	925 N Brink Avenue	Sarasota	34237		3,493	69,868	
Venice Area Middle School		1900 Center Road	Venice	34293	800	0	0	600
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
			Totals for Sarasota County		39,404	30,286	643,053	9,285

Year 2004	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	30,286	49,040	-18,754	643,053	980,800	-337,747	DEFICIT

County Shelter Information

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)
English Estates Elementary School	100	299 Oxford Road	Fern Park	32370		500	21,277	
Bentley Elementary	1	2190 Oregon Avenue	Sanford	32771		100	2,000	
Geneva Elementary School	4	275 1st Street	Geneva	32372		500	5,426	
Highlands Elementary School	1	1600 Shepard Road	Winter Springs	32708	500	212	8,479	
John Evans Elementary	1	141 Academy Drive	Oviedo	32765	500	424	8,479	
Lake Brantley High School	6,7, &8	991 Sand Lake Road	Altamonte Springs	32714		0	0	
Lake Mary High School	Gym/Café	655 Longwood/Lake Mary Rd	Lake Mary	32746	2,000	1,169	23,388	
Lawton Chiles Elem School	4&5`	3225 Lockwood Boulevard	Oviedo	32765	1,000	1,000	13,046	
Lyman High School	7	865 CR 427 South	Longwood	32750	2,000	2,198	43,952	
Winter Springs High School	5	130 Tuskawilla Road	Winter Springs	32708		873	17,460	
Winter Springs High School	6	130 Tuskawilla Road	Winter Springs	32708		873	17,460	
Millenium MS	3&5				2,000	648	12,961	
				TOTALS FOR SEMINOLE COUNTY	8,000	8,497	173,928	0

Year 2004	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	8,497	3,405	5,092	173,928	68,100	105,828	SURPLUS

County Shelter Information

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)
Bushnell Community Center		Highway 301& Belt Avenue	Bushnell	33513	60	0	0	100
Bushnell Elementary School		218 W Flannery	Bushnell	33513	125	0	0	125
Croom Road Baptist Church		12016 CR 681	Webster	33597	100	0	0	100
DAV Building		CR 489	Lk Panasoffkee	33538	200	0	0	200
First Baptist Church of Oxford		Creek Road & Highway 301	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	3,560	150
North Sumter Primary School	18	104 North Warfield Street	Wildwood	34785	125	178	3,560	125
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 466	Villages	32162	200	200	4,000	0
Webster Elementary School	14	349 South Market Blvd	Webster	33597	150	138	2,760	150
Wildwood Community Center	1	700 Huey Street	Wildwood	34785	150	477	9,540	81
Wildwood High School		700 Huey Street	Wildwood	34785	450	0	0	450
Wildwood Middle School		200 Cleveland Street	Wildwood	34785	250	0	0	200
				TOTALS FOR SUMTER COUNTY	3,425	1,171	23,420	3,171

Year 2004	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	1,171	7,919	-6,748	23,420	158,380	-134,960	DEFICIT

County Shelter Information

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)
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 Place	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	203	4,067	
Suwannee Elementary School West	361/004	Pinewood Drive	Live Oak	32060	300	152	3,042	
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	
				TOTALS FOR SUWANNEE COUNTY	6,600	355	7,109	0

Year 2004	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	355	4,461	-4,106	7,109	89,220	-82,111	DEFICIT

County Shelter Information

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)
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			
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 Vocational School		3233 S US Highway 19	Perry	32348	200	0	0	200
Covenant Christian Fellowship Church		6050 Pucket Rd	Perry	32348	80			
Taylor County Elementary (NEW)	3,4,5,6	1600 East Green Street	Perry	32347	300	600	24,000	
				TOTALS FOR TAYLOR COUNTY	2,275	600	24,000	1,395

Year 2004	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	600	2281	-1,681	24,000	45620	-21,620	DEFICIT

County Shelter Information

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)
Lake Butler Elementary School		800 SW 6th Street	Lake Butler	32054	400	0	0	0
Lake Butler High School		1000 S Lake Avenue	Lake Butler	32054	1,000	1,000	20,000	0
Lake Butler High School Gym		850 S Lake Avenue	Lake Butler	32054	200	0	0	0
Lake Butler High School Physical Ed Bldg		150 SW 6th Street	Lake Butler	32054	424	60	3,200	0
Lake Butler Middle School		120 SW 6th Street	Lake Butler	32054	150	824	16,480	150
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
UCI-DOC Training Buliding		Hwy 121 South	Worthington	32697	50	0	0	50
TOTALS FOR UNION COUNTY					2,489	1,884	39,680	355

Year 2004	Shelter Capacity in People	Shelter Demand in People	Surplus/ Deficit in People	Shelter Capacity (ft2)	Shelter Demand (ft2)	Surplus/ Deficit (ft2)	Results
Storm Category 4/5	1,884	1210	674	39,680	24200	15,480	SURPLUS

County Shelter Information

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)
Atlantic High School	1250	1250 Reed Canal	Port Orange	32171	424	424	16,960	
Blue Lake Elementary School		282 North Blue Lake Ave	DeLand	32724	249	249	4,980	249
Creekside Middle School	6901	6801 Airport Road	Port Orange	32171	397	397	15,880	
Daytona Beach Community College East	16	1200 West Intl Speedway	Daytona Beach	32114	322	322	6,440	0
Daytona Beach Community College West	16	1155 County Road 4139	DeLand	32724	145	145	2,900	0
DeBary Elementary School	88	88 W Highbanks Road	DeBary	32713	313	313	6,260	0
DeLand High School	800	800 N Hill Avenue	DeLand	32724	800	628	12,560	0
DeLand Middle School		1400 S Aquarius Avenue	DeLand	32724	792	792	15,840	2,376
Deltona Lakes Elementary School		2022 Adelia Boulevard	Deltona	32728	274	152	3,040	274
Discovery Elementary School		975 Abigail Drive	Deltona	32725	252	207	4,140	252
Forest Lake Elementary School	1600	1600 Doyle Road	Deltona	32725	250	250	5,000	0
Freedom Elementray School	1395	1395 South Blue Lake	DeLand	32724	127	127	5,080	
Friendship Elementary School		2746 Fulford Street	Deltona	32725	255	409	8,180	255
Galaxy Middle School	2 &10	2400 Eustace Avenue	Deltona	32725	416	1,060	25,760	
Heritage Middle Schol	1001	1001 Parnell Court	Deltona	32725	397	397	15,880	
Horizon Elementary School	4751	4751 Hidden Lake Drive	Port Orange	32127	251	126	5,020	0
James Park Youth Action Center		1700 James Street	South Daytona	32111	80	80	1,600	0
Osteen Elementary School		Doyle Road	Osteen	32764	249	137	2,740	249
Palm Terrace Elementary School	1825	1825 Dunn Avenue	Daytona Beach	32124	330	330	6,600	
Pathways Elementary School	2100	2100 Airport Road	Ormond Beach	32714	250	250	5,000	0
Piggotte Center		504 Big Tree Road	South Daytona	32111	100	100	2,000	0
Pine Ridge High School		925 Howland Boulevard	Deltona	32725	848	327	6,540	848
Pine Trail Elementray School		300 Airport Road	Ormond Beach	32714	254	0	0	254
Port Orange YMCA	4701-PE	4701 City Center Pkwy	Port Orange	32127	325	200	4,000	0
Port Orange YMCA	4701-Day	4701 City Center Pkwy	Port Orange	32127		125	2,500	0
Sunrise Elementary School		3155 Phonetia Drive	Deltona	32725	255	274	5,480	255
Sweetwater Elementary School	5800	5800 Victoria Gardens	Port Orange	32127	250	250	5,000	0
Timbercrest Elementary School	2401	2401 Eustace Avenue	Deltona	32725	255	255	5,100	0
Volusia county Fairground	Tommy Lawr	3150 E. NY Ave	Deland	32724	250	250	0	250
Volusia Pines Elementray School	500	500 Kicklighter Road	Lake Helen	32744	250	250	5,000	0
TOTALS FOR VOLUSIA COUNTY					9,360	8,826	205,480	5,262

County Shelter Information

VOLUSIA							
Year 2004	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	8,826	30,193	-21,368	205,480	603,860	-398,380	DEFICIT

County Shelter Information

WAKULLA								
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)
Crawforville Elementary School	200	69 Aaron Road	Crawfordville	32327	400	650	13,000	200
Medart Elementary School		2558 Coastal Highway	Crawfordville	32327	400	0	0	300
Mormon Church		US Highway 319 South	Crawfordville	32327	100	0	0	100
River of Life		10 Faith Ave	Sopchoppy	32358	150			
Ochlockonee Bay United Methodist Church		45 Warrior Way	Crawfordville	32327	0	0	0	125
Shadeville Elementary School		3237 Coastal Highway	Crawfordville	32327	350	0	0	0
Sopchoppy School		Surf Road	Panacea	32346	200	0	0	200
Wakulla County High School		164 Yellow Jacket Avenue	Sopchoppy	32358	290	0	0	290
				TOTALS FOR WAKULLA COUNTY	1,890	650	13,000	1,215

Year 2004	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	650	757	-107	13,000	15,140	-2,140	DEFICIT

County Shelter Information

WALTON								
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)
DeFuniak Springs Civic Center		361 N 10th Street	DeFuniak Springs	32433	1,000	0	0	286
Freeport Community Center		16040 US Hwy 331 South	Freeport	32439	100	0	0	0
Freeport High School		380 Kylea Laird Drive	Freeport	32439	2,080	2,080	41,600	0
Maude Saunders Elementary School		416 John Baldwin Road	DeFuniak Springs	32433	500	0	0	454
Paxton High School		21893 US Hwy 331 North	Laurel Hill	32567	250	0	0	581
Van R Butler		6694 W County Hwy 30-A	Santa Rosa Bch	32459	0	0	0	0
Walton High School		555 Walton Road	DeFuniak Springs	32433	500	0	0	667
Walton Middle School		625 Park Avenue	DeFuniak Springs	32435	450	225	9,000	0
West DeFuniak Elementary School		815 Lincoln Avenue	DeFuniak Springs	32435	0	0	0	0
South Walton High School		645 Greenway Trail	Santa Rosa Bch			2,080	41,600	
DeFuniak Springs Civic Center		361 N 10th Street	DeFuniak Springs	32433		0	0	96
						0	0	
Childrens Home Community Center					60	60	1,200	
				TOTALS FOR WALTON COUNTY:	4,940	4,445	93,400	2,084

Year 2004	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	4,445	4,861	-416	93,400	97,220	-3,820	DEFICIT

County Shelter Information

WASHINGTON								
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)
Chipley High School	corridors	680 2nd Street	Chipley	32428	800	0	0	100
Chipley High School/Rouhlac Middle School		1535 Brickyard Road	Chipley	32428	1,358	0	0	356
Chipley High School/Rouhlac Middle School	8	1535 Brickyard Road	Chipley	32428		153	3,076	
Chipley High School/Rouhlac Middle School	7	1535 Brickyard Road	Chipley	32428		161	3,231	
Chipley High School/Rouhlac Middle School	6	1535 Brickyard Road	Chipley	32428		453	9,059	
Chipley High School/Rouhlac Middle School	5	1535 Brickyard Road	Chipley	32428		153	3,076	
Chipley High School/Rouhlac Middle School	2	1535 Brickyard Road	Chipley	32428		244	4,893	
Vernon Middle School		3206 Moss Hill Road	Vernon	32462	1,436	0	0	232
Vernon Middle School	2	3206 Moss Hill Road	Vernon	32462		208	4,161	
Vernon Middle School	3	3206 Moss Hill Road	Vernon	32462		404	8,092	
Vernon Middle School	4	3206 Moss Hill Road	Vernon	32462		301	6,023	
Vernon Middle School	5	3206 Moss Hill Road	Vernon	32462		279	5,592	
Vernon High School		1 Yellow Jacker Drive	Vernon	32462	550	0	0	0
Washington County Ag Center		800 W Washington Avenue	Chipley	32428	410	0	0	0
				TOTALS FOR WASHINGTON COUNTY:	4,554	2,356	47,203	688

Year 2004	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	2,356	1568	788	47,203	31360	15,843	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.

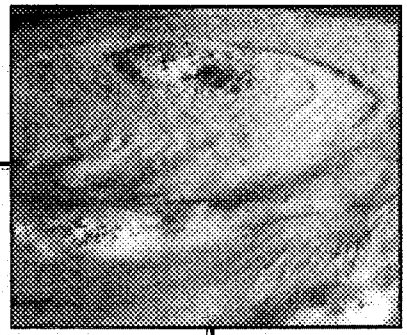
§423.25.6.1 Construction of EHPAs shall be inspected during the construction process by certified building code inspectors or the design architect/engineer(s) certified pursuant to Part XII Chapter 468 F.S. and threshold inspectors for compliance with applicable rules and laws.

§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

Acronyms
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ARC – American Red Cross

ARC 3041- American Red Cross publication : *Mass Care - Preparedness and Operations*

ARC 4496 - American Red Cross publication: *Standards for Hurricane Evacuation Shelter Selection*

ASCE - American Society of Civil Engineers

ASCE 7 - *Minimum Design Loads for Buildings and Other Structures*

ASTM - American Society for Testing and Materials

ASTM E 1886 and E 1996 - ASTM standards for windborne debris impact

DCA/DEM - Department of Community Affairs/ Division of Emergency Management

DOE - Department of Energy

DOE-STD-1020 – U.S. Department of Energy- standard – 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 361 – *Design and Construction Guidance for Community Shelters* **-** Federal Emergency Management Agency Publicantion 361 **-** construction standard for "near-absolute protection" for tornado and hurricane shelters.
http://www.fema.gov/fima/fema361.shtm

F.S. – Florida Statutes

HMG - Hazard Management Group

HMGP - Hazard Mitigation Grant Program

LEPC - Local Emergency Planning Committee

Acronyms (Continued)

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

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

D-2

Appendix E:
Glossary

Appendix E: Glossary

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.

Core Facilities: Means the media center, cafeteria, toilet facilities, and circulation space of an educational plant.

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.

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. The shelter population may include evacuees who flee from the threat of a hurricane or severe storm in their home counties. 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

Hurricane Evacuation Shelter: A building or facility that conforms to the hurricane evacuation guidelines 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 safety criteria. See also Storm Shelter and Risk Shelter.

Hurricane Evacuation Zones: 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 and isolated by flooded areas, and the need to be easily communicated to the public.

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.

Glossary (continued)

Long Span : 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.

Open Span: 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 cleared 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 allow for furnishings, 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, **Glossary (continued)**

including replacement of membrane or structure. As used in this subsection, the term "materials" does not include instructional materials.

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 Guidelines for Hurricane Evacuation Shelter Selection (ARC 4496, July 1992). Facilities designated as Risk Shelters lie in the projected path of an approaching hurricane or severe storm and who have been
directed to evacuate. 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 safety criteria. A total of 20 square feet of usable floor space per person is recommended in the calculation of shelter capacity. See Hurricane Evacuation Shelter and Storm Shelter.

Saffir-Simpson HurricaneScale : 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.

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

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: Means a space of ground occupied or to be occupied by an educational facility or program.

SLOSH modeling: A modeling methodology that predicts the maximum envelope and depth of coastal and inland storm surge inundation with respect to categories of hurricane.

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, was 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, 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

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 demonstrated that the potential exists for hundreds of shelterees to find themselves scrambling for safety as the structural envelope of a designated public shelter progressively disintegrates in a "design level event." 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 EHPAs 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. EHPAs 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, using the importance factor (*I*) for a Category III or IV (essential facility) building occupancy. 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 a 50-year recurrence level, which presumes that 50 years is the useful life expectancy of a facility. The Category III/IV importance factor (1.15) is used to adjust the wind speed design up to a 100+ 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 EHPAs, 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 200 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**					
	Hurricane Category 1	Hurricane Category 2	Hurricane Category 3	Hurricane Category 4	Hurricane Category 5	Extreme Hurricane Category 5
3-second Gust (ASCE 7 and 2001 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 DOE-STD-1020 and 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.

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 EHPAs, 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 EHPAs, 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. The Department also considers products and assemblies acceptable that have been tested and certified to equivalent requirements of the American Society for Testing and Materials (ASTM) Standards E 1886 and E 1996, and the High Velocity Hurricane Zone Testing Protocols TAS 201, 202 and 203. Construction assemblies that are "deemed to comply" with section 1626, FBC, are also considered acceptable.

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 breaks apart 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. DOE-STD-1020 requires that the facility's exterior envelope components, cladding materials and assemblies resist penetration by a nominal 2"x4" lumber plank weighing 15 pounds propelled at 50 miles per hour and striking "end-on" and perpendicular to the assembly. This is about 360 percent of the impact energy of SSTD 12's 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.

FEMA 361 can be viewed at the following web address:

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

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

Performance Category	**X**	**0**	**1**	**2** (EHPA min)	**3** (EHPA rec)	**4** (FEMA 361)
Wind Hazard Return Period (yrs)	< 50	50	50	100	1,000	10,000
Design Wind Speed	Does not meet ARC 4496	Code & meets ARC 4496	ASCE 7 or Code & ARC 4496	ASCE 7, essential facility & 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	140-200 (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 ½" plywood; max. height 30* ft.	2x4 timber plank, 9 lb @ 34 mph; max. height 30* ft.	2x4 timber plank, 9 lb @ 34 mph; max. height 60* ft.	2x4 timber plank, 15 lb @ 50 mph; max. height 60* ft	2x4 timber plank, 15 lb @ 50 mph; max. height 60* ft
Tornado Windborne Debris Impact Criteria	N/A	N/A	N/A	2x4 timber plank, 15 lb @ 50 mph; max. height 60* 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 resist penetration to small missile standards.
Note: PC 2 ≈ EHPA minimum requirement, PC 3 ≈ EHPA recommended requirement, and PC 4 ≈ FEMA 361 "near absolute protection" requirement

G.2.3 Foundations and Floor Slabs. The finished floor elevation of EHPAs 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 EHPAs is ASCE 7 Building Category IV. That is, the minimum elevation must be at least one (1) foot above base flood elevation (BFE). However, where practical, 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 wind design is per ASCE 7 with year of revision specified
3. Basic wind speed, mph
4. Wind importance factor (*I*)
5. Wind exposure
6. Internal pressure coefficient (*GCpi*)
7. Provide documentation that windows, doors and other exterior components comply with SSTD 12 or an equivalent performance standard (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.

8. 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 professional-of-record sign and seal the certification document(s), and forward the certification to the board, local emergency management agency and Division.

G.3 Location and Site Requirements

G.3.1 Emergency Access. EHPAs 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 utilites, including, electricity, telecommunications, potable and waste water, 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. Trees and shrubs within 50 feet of an EHPA should be limited to hurricane tolerant species with trunk diameters that do not exceed about six (6) inches. 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.4 Hurricane Shelter Capacity

Fifty percent of the net square feet of new educational facilities is 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 infrastructure-related requirements (potable water, toilets, sinks, parking, etc.) EHPAs may be 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, 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, 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. - $\sum$ Excluded Floor Areas, sq.ft.) / 20 = Occupant Capacity

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

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

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.

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 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 100 persons (includes both shelterees and management staff) will require a minimum of 167 gallons of potable water. This is a relatively small quantity of water if it must be extended for up to 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 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.

G.5.3 Showers. Given that the EHPA criteria assumes 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 Waste Water. The EHPA criteria requires that the plumbing system be capable of containing (or otherwise disposing of) the waste water generated by the design capacity occupant load. This can be accomplished through installation of storage tanks, a waste water treatment package plant, or other suitable measure. It is critical that waste water be prevented from backing up into the EHPA.

For those facilities with an on-site waste water lift station, the lift station reservoir can be sized to meet the storage requirement. If this method is selected, 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). The lift station reservoir must be set at a lower elevation than the EHPA to prevent back-up of waste water 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 waste water can be drained and properly disposed of by a mobile unit.

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, EHPAs 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 "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. 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 EHPAs. 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.

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.

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

G.7.2 Food Service. The EHPA criteria states that "where feasible, include counter tops for food distribution functions in the EHPAs." 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 the general 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 100 persons (includes both shelterees and management staff) will require a minimum of 117 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.7.3 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.7.4 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

CONTACT PERSON
NAME: Jon Hamrick
PHONE: (850) 487-1130
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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

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)(a)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. 69-305; 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

Category 5 -Shelter Demand Study Table

County	Cat5 Vulnerable Population (estimated)	HES Publication Year	2000 Population	Average Annual Population Growth	2004 Cat5 Vulnerable Population (estimated)	2009 Cat5 Vulnerable Population (estimated)	Shelter Demand from HES	2004 Shelter Demand	2009 Shelter Demand	% of Demand/ Vuln Pop	Derived Data
Alachua	25,300	1996	217,955	0.020	29,859	32,392	7,500	8,851	9,602	30	Cedar Key Basin HES, pg 3-5
Baker	9,300	1998	22,259	0.020	10,629	11,578	1,850	2,114	2,303	20	Northeast FL HES, pgs T-20-21
Bay	163,188	2000	148,217	0.017	174,097	187,733	14,022	14,959	16,131	9	Northwest FL HES, YR 2000 Census Update Disk
Bradford	6,700	1996	26,088	0.016	7,657	8,189	1,809	2,067	2,211	27	Cedar Key Basin HES, pg 3-5
Brevard	226,680	2000	476,230	0.019	248,625	270,571	16,500	18,097	19,695	7	East Central FL HES, Trans. Summary pg 3-5
Broward	434,475	2001	1,623,018	0.029	485,342	548,927	36,120	40,349	45,635	8	Broward County HES: Model Support, pg C-4
Calhoun	3,300	1997	13,017	0.018	3,901	4,202	1,180	1,395	1,502	36	Apalachee Bay HES, pg 3-5
Charlotte	177,669	2001	141,627	0.028	197,298	221,835	26,699	29,649	33,336	15	Southwest FL HES, pg II-A-16
Citrus	73,100	1996	118,085	0.026	90,387	99,991	12,000	14,838	16,414	16	Cedar Key Basin HES, pg 3-5
Clay	60,780	1998	140,814	0.033	74,761	84,747	8,400	10,332	11,712	14	Northeast FL HES, pgs T-20-21
Collier	276,637	2001	251,377	0.065	348,864	439,147	33,196	41,863	52,697	12	Southwest FL HES, pg II-C-9
Columbia	16,200	1996	56,513	0.033	20,956	23,598	4,374	5,658	6,371	27	Cedar Key Basin HES, pg 3-5
DeSoto	14,218	1995	32,209	0.035	19,189	21,675	4,754	6,416	7,247	33	Central FL HES, pg 11
Dixie	14,700	1996	13,827	0.031	18,752	21,003	2,100	2,679	3,000	14	Cedar Key Basin HES, pg 3-5

Category 5 -Shelter Demand Study Table

County	Cat5 Vulnerable Population (estimated)	HES Publication Year	2000 Population	Average Annual Population Growth	2004 Cat5 Vulnerable Population (estimated)	2009 Cat5 Vulnerable Population (estimated)	Shelter Demand from HES	2004 Shelter Demand	2009 Shelter Demand	% of Demand/ Vuln Pop	Derived Data
Duval	280,220	1998	778,879	0.016	311,089	333,139	29,490	32,739	35,059	11	Northeast FL HES, pgs T-20-21
Escambia	130,686	2000	294,410	0.012	136,974	144,834	14,611	15,314	16,193	11	Northwest FL HES, YR 2000 Census Update Disk
Flagler	56,950	1998	49,832	0.074	77,915	98,879	4,400	6,668	8,287	9	Northeast FL HES, pgs T-20-21
Franklin	11,300	1997	11,057	0.023	13,934	15,251	150	185	202	1	Apalachee Bay HES, pg 3-5
Gadsden	11,400	1997	45,087	0.010	12,501	13,052	3,560	3,904	4,076	31	Apalachee Bay HES, pg 3-5
Gilchrist	5,300	1996	14,437	0.049	7,654	8,961	1,431	2,066	2,420	27	Cedar Key Basin HES, pg 3-5
Glades	14,995	2001	10,576	0.039	17,354	20,302	5,098	5,900	6,902	34	Southwest FL HES, pg II-F-18
Gulf	12,400	1997	13,332	0.016	14,370	15,356	730	846	904	6	Apalachee Bay HES, pg 3-5
Hamilton	4,500	1996	13,327	0.022	5,388	5,882	1,215	1,455	1,588	27	Cedar Key Basin HES, pg 3-5
Hardee	11,452	1995	26,938	0.038	15,821	18,006	6,989	9,655	10,989	61	Central FL HES, pg 11
Hendry	15,749	2001	36,210	0.040	18,300	21,489	5,355	6,222	7,307	34	Southwest FL HES, pg II-E-16
Hernando	76,500	1996	130,802	0.029	96,714	107,944	13,700	17,320	19,331	18	Cedar Key Basin HES, pg 3-5
Highlands	31,650	1995	87,366	0.028	40,407	44,786	17,424	22,245	24,655	55	Central FL HES, pg 11
Hillsborough	468,701	2000	998,948	0.020	515,033	561,364	122,587	134,705	146,823	26	Tampa Bay HES, pg 9
Holmes	5,080	2000	18,564	0.018	5,529	5,977	1,300	1,415	1,530	26	Northwest FL HES, pgs 3-10
Indian River	83,154	2003	112,947	0.025	85,250	95,731	6,633	6,800	7,636	8	Treasure Coast HES, Trans. Summary pg 3-5

Category 5 -Shelter Demand Study Table

County	Cat5 Vulnerable Population (estimated)	HES Publication Year	2000 Population	Average Annual Population Growth	2004 Cat5 Vulnerable Population (estimated)	2009 Cat5 Vulnerable Population (estimated)	Shelter Demand from HES	2004 Shelter Demand	2009 Shelter Demand	% of Demand/ Vuln Pop	Derived Data
Jackson	10,300	1997	46,755	0.013	11,639	12,309	3,530	3,989	4,219	34	Apalachee Bay HES, pg 3-5
Jefferson	5,400	1997	12,902	0.014	6,168	6,552	770	879	934	14	Apalachee Bay HES, pg 3-5
Lafayette	2,700	1996	7,022	0.026	3,329	3,679	729	899	993	27	Cedar Key Basin HES, pg 3-5
Lake	91,600	2000	210,528	0.038	109,192	126,784	13,700	16,331	18,962	15	East Central FL HES, Trans. Summary pg 3-6
Lee	466,740	2001	440,888	0.032	525,669	599,330	93,348	105,134	119,866	20	Southwest FL HES, pg II-B-9
Leon	40,000	1997	239,452	0.024	49,758	54,637	10,100	12,564	13,796	25	Apalachee Bay HES, pg 3-5
Levy	22,600	1996	34,450	0.033	29,302	33,025	4,000	5,186	5,845	18	Cedar Key Basin HES, pg 3-5
Liberty	2,700	1997	7,021	0.026	3,404	3,756	915	1,154	1,273	34	Apalachee Bay HES, pg 3-5
Madison	5,500	1996	18,733	0.013	6,146	6,506	1,485	1,660	1,757	27	Cedar Key Basin HES, pg 3-5
Manatee	152,622	2000	264,002	0.025	171,472	190,322	37,761	42,425	47,089	25	Tampa Bay HES, pg 9
Marion	71,000	1996	258,916	0.033	92,017	103,693	21,750	28,188	31,765	31	Cedar Key Basin HES, pg 3-5
Martin	98,759	2003	126,731	0.026	101,287	113,929	8,060	8,266	9,298	8	Treasure Coast HES, Trans. Summary pg 3-5
Miami-Dade	689,321	2003	2,253,362	0.016	700,571	756,823	58,525	59,480	64,256	8	Miami-Dade HES Restudy, pg 3-5
Monroe	97,100	2001	79,589	0.002	97,490	98,463	4,855	4,894	4,943	5	FL Keys HES, pg 14
Nassau	50,480	1998	57,663	0.031	61,515	69,397	4,100	4,996	5,636	8	Northeast FL HES, pgs T-20-21

Category 5 -Shelter Demand Study Table

County	Cat5 Vulnerable Population (estimated)	HES Publication Year	2000 Population	Average Annual Population Growth	2004 Cat5 Vulnerable Population (estimated)	2009 Cat5 Vulnerable Population (estimated)	Shelter Demand from HES	2004 Shelter Demand	2009 Shelter Demand	% of Demand/ Vuln Pop	Derived Data
Okaloosa	122,014	2000	170,498	0.019	131,085	142,423	12,050	12,946	14,066	10	Northwest FL HES, YR 2000 Census Update Disk
Okeechobee	23,354	1995	35,910	0.021	28,307	30,783	16,072	19,480	21,185	69	Central FL HES, pg 11
Orange	80,200	2000	896,344	0.032	93,154	106,107	12,000	13,938	15,876	15	East Central FL HES, Trans. Summary pg 3-5
Osceola	50,700	2000	172,493	0.060	65,940	81,180	7,600	9,885	12,169	15	East Central FL HES, Trans. Summary pg 3-6
Palm Beach	425,617	2003	1,131,184	0.031	438,811	504,780	40,751	42,014	48,331	10	Treasure Coast HES, Trans. Summary pg 3-5
Pasco	223,396	2000	344,765	0.023	248,679	273,962	57,373	63,866	70,359	26	Tampa Bay HES, pg 9
Pinellas	589,416	2000	921,482	0.008	613,578	637,739	123,971	129,053	134,135	21	Tampa Bay HES, pg 9
Polk	72,224	1995	483,924	0.019	86,217	93,214	35,049	41,840	45,235	49	Central FL HES, pg 11
Putnam	53,520	1998	70,423	0.008	56,602	58,803	8,970	9,487	9,856	17	Northeast FL HES, pgs T-20-21
St. Johns	136,840	1998	123,135	0.047	181,753	213,834	7,400	9,829	11,564	5	Northeast FL HES, pgs T-20-21
St. Lucie	77,377	2003	192,695	0.028	79,568	90,524	6,479	6,662	7,580	8	Treasure Coast HES, Trans. Summary pg 3-5
Santa Rosa	73,654	2000	117,743	0.044	86,699	103,006	7,609	8,957	10,641	10	Northwest FL HES, YR 2000 Census Update Disk
Sarasota	229,289	2001	325,957	0.017	245,197	265,083	45,858	49,040	53,017	20	Southwest FL HES, pg II-D-14

Category 5 -Shelter Demand Study Table

County	Cat5 Vulnerable Population (estimated)	HES Publication Year	2000 Population	Average Annual Population Growth	2004 Cat5 Vulnerable Population (estimated)	2009 Cat5 Vulnerable Population (estimated)	Shelter Demand from HES	2004 Shelter Demand	2009 Shelter Demand	% of Demand/ Vuln Pop	Derived Data
Seminole	20,200	2000	365,196	0.027	22,929	25,657	3,000	3,405	3,810	15	East Central FL HES, Trans. Summary pg 3-6
Sumter	18,100	1996	53,345	0.069	29,330	35,568	4,887	7,919	9,603	27	Cedar Key Basin HES, pg 3-5
Suwannee	13,000	1996	34,844	0.030	16,523	18,480	3,510	4,461	4,990	27	Cedar Key Basin HES, pg 3-5
Taylor	11,800	1996	19,256	0.013	13,131	13,871	2,050	2,281	2,410	17	Cedar Key Basin HES, pg 3-5
Union	13,000	1996	13,442	0.031	16,641	18,663	945	1,210	1,357	7	Cedar Key Basin HES, pg 3-5
Volusia	272,430	2000	443,343	0.020	299,107	325,783	27,500	30,193	32,886	10	East Central FL HES, Trans. Summary pg 3-5
Wakulla	15,550	1997	22,863	0.061	25,033	29,775	470	757	900	3	Apalachee Bay HES, pg 3-5
Walton	52,509	2000	40,601	0.046	62,226	74,372	4,102	4,861	5,810	8	Northwest FL HES, YR 2000 Census Update Disk
Washington	5,588	2000	20,973	0.024	6,257	6,927	1,400	1,534	1,702	25	Northwest FL HES, pgs 3-10
Statewide	7,108,884		15,984,378	0.024	7,920,275	8,816,275	1,097,851	1,236,369	1,369,872	16	

Emergency Service Function 8 (ESF 8) Health and Medical

Florida's Strength of Response

Nancy Humbert, A.R.N.P., M.S.N.
Deputy Secretary for Health
State Director of Public Health Nursing
Women's Health Strategy Officer

ESF 8 Health and Medical Purpose

- The purpose of Florida Emergency Support Function 8 (ESF8) is to coordinate the State's health and medical resources, capabilities, capacities, and response in an "All Hazards" environment during natural or man-made disasters.
- To develop an integrated and comprehensive statewide ESF 8 health and medical response SYSTEM.

ESF 8 Major Partners

- Department of Health (Lead)
- Agency for Health Care Administration
- Department of Elder Affairs
- Department of Agriculture
- Department of Children & Families
- Florida Hospital Association
- Florida Health Care Association
- Florida Home Health Care Association
- Florida Nursing Association
- Federal Partners

ESF 8 Key Support Partners

- ESF 4 & 9 EMS deployment and SAR
- ESF 5 Information & Planning
- ESF 6 Mass Care
- ESF 7 Resource Support (Logistics)
- ESF 10 Hazmat
- ESF 11 Food & Water
- ESF 13 Military Support
- ESF 14 Media Relations
- ESF 15 Volunteers & Donations
- ESF 16 Law Enforcement

ESF 8 Responsibilities

- Mass Casualty Systems
- Epidemiology/Disease Control
- Immunizations
- Facility Assessments
- Evacuation/Relocation
- Risk Communications
- Nutritional Services
- Statistical Reporting
- Behavioral Health/CISD
- Rapid Impact Assessment/Urban Search & Rescue Teams
- DEET (Bug Spray)
- Renal Facility Support

ESF 8 Responsibilities

- Environmental Health Services
- County Health Dept. Support
- Lab Services
- FEMORS/DMORT
- SanPacs
- Oxygen
- EMS Services
- Hospital Infrastructure/staffing
- Disaster Medical Assessment Teams
- Special Needs Shelters (Equipping & Staffing)
- Pharmaceutical Deployment

Florida Strengths

- Utilize Incident Command System.
- Health and Medical response is predicated on strong relationships.
- Emphasis is on health and medical "systems" which are integrated, interdependent, and focused on the mission.
- Focus on continuous planning and analysis
- Pre-staging resources for deployment.
- Rapid damage assessments.
- Aggressive communications with facilities

Florida Strengths

- Focused on local support.
- Collaborative planning, training, and exercising with federal, state, and county partners.
- Federal partners are integrated into the management structure.
- System of continuous improvement.
- Model sheltering and discharge system.
- Transportable to other areas.

ESF 8 Katrina Response

- Area of Operations - lower 6 counties of Mississippi (most severely impacted)
- ESF 8 part of first-in command team and managed ESF 8 system.
- Instrumental in re-establishing the health and medical system.
- Established communications linkages.

ESF 8 Katrina Response

- Conducted damage assessments of over 60 health care facilities (AHCA).
- Provided immunizations for first responders and victims.
- Provided Critical Incident Stress Debriefings
- Established and managed shelters.
- Still providing services to Internally Displaced Persons (IDP's).
- Worked to establish and implement a system to manage mass fatalities.
- Seamless hand-off to Kentucky.

ESF 8 Katrina Deployments

- 384 ESF 8 personnel deployed (including 140 EMS personnel and 56 Advanced Life Support Units. (with ESF 4&9)
- Three teams of architects, engineers, and industrial hygienists. (AHCA)
- Coordinated 88 hospital patients transported out of disaster area to Miami, Tampa, Orlando, and Jacksonville (NDMS)
- 200 SEOC staff to support personnel in the field.
- Acquired and managed health and medical supplies for logistical staging area in Miss.

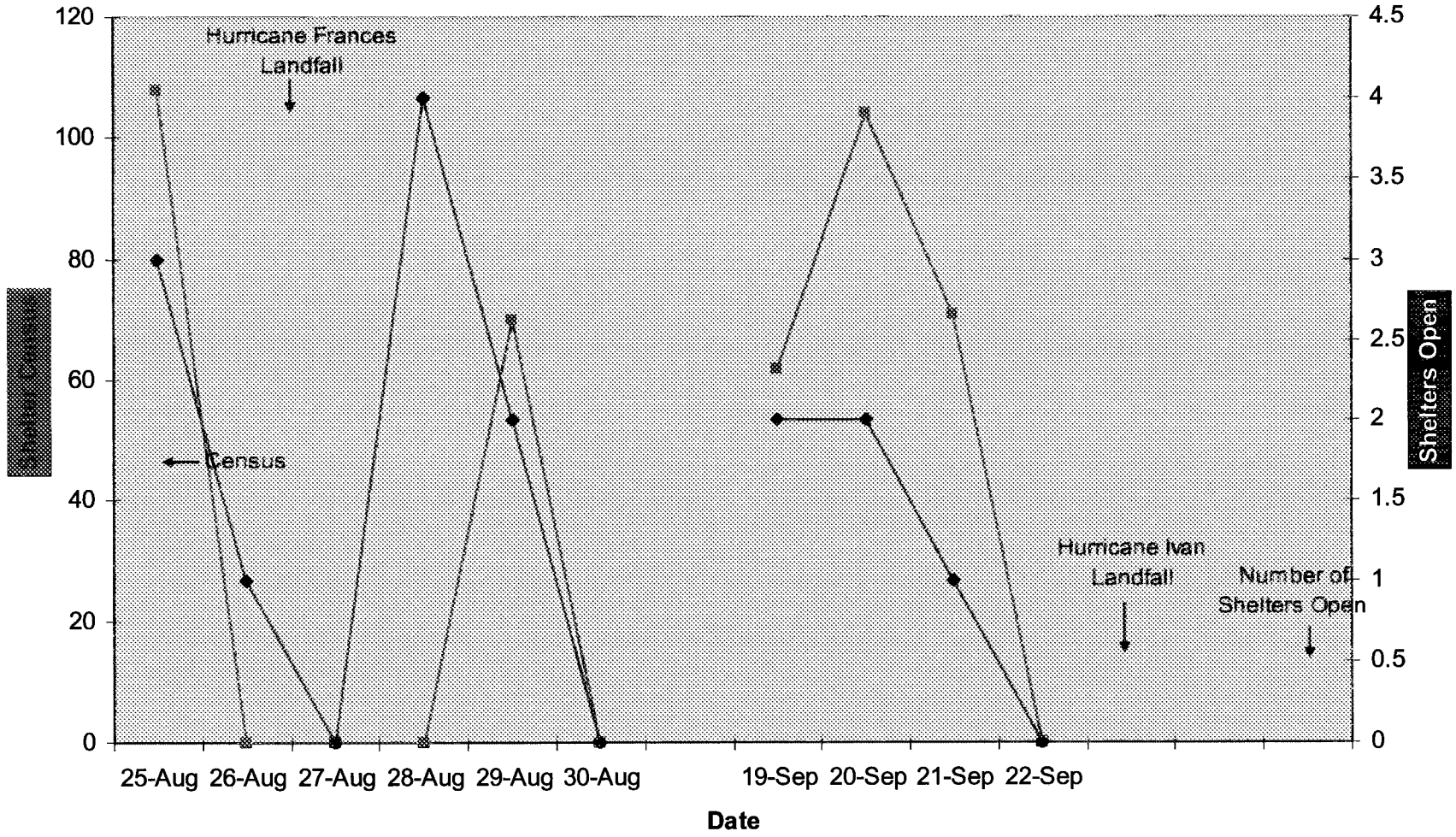
Thank You

Questions?

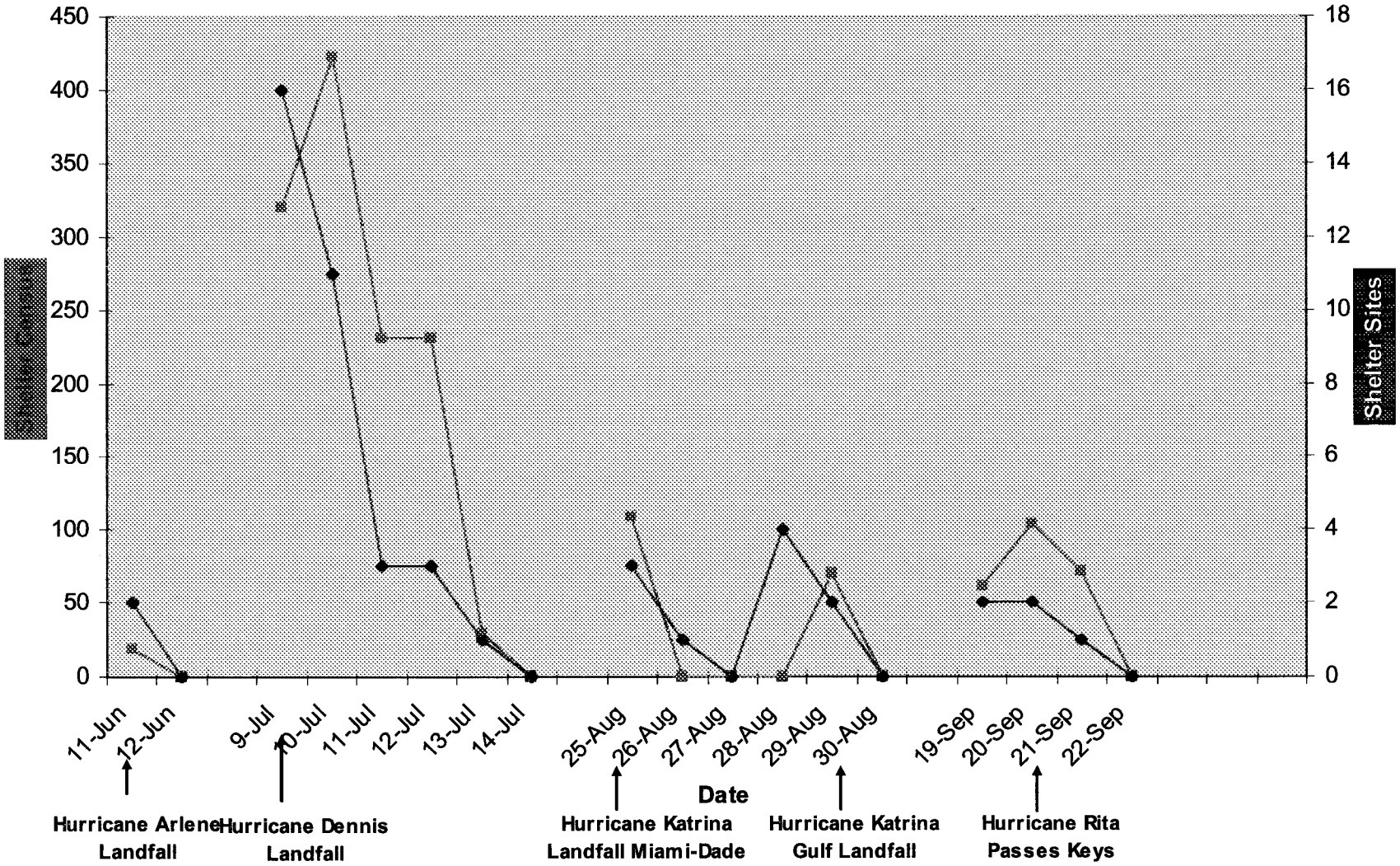
If you have any additional questions, or need any additional information, please e-mail Ray Runo at the following e-mail address:

Raymond_Runo@doh.state.fl.us

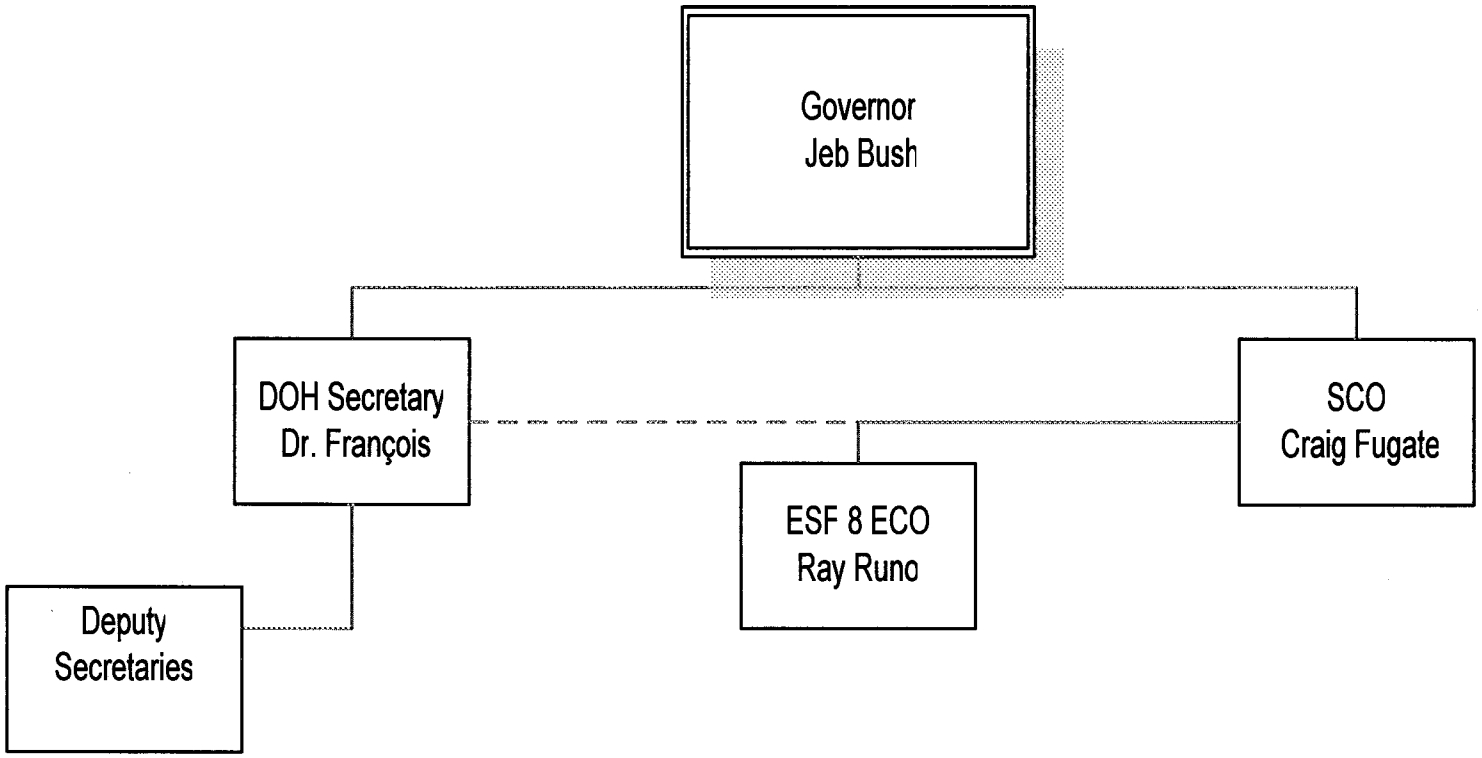
Florida Department of Health
Cumulative Special Needs Shelter (SpNS) Census and Site Statistics

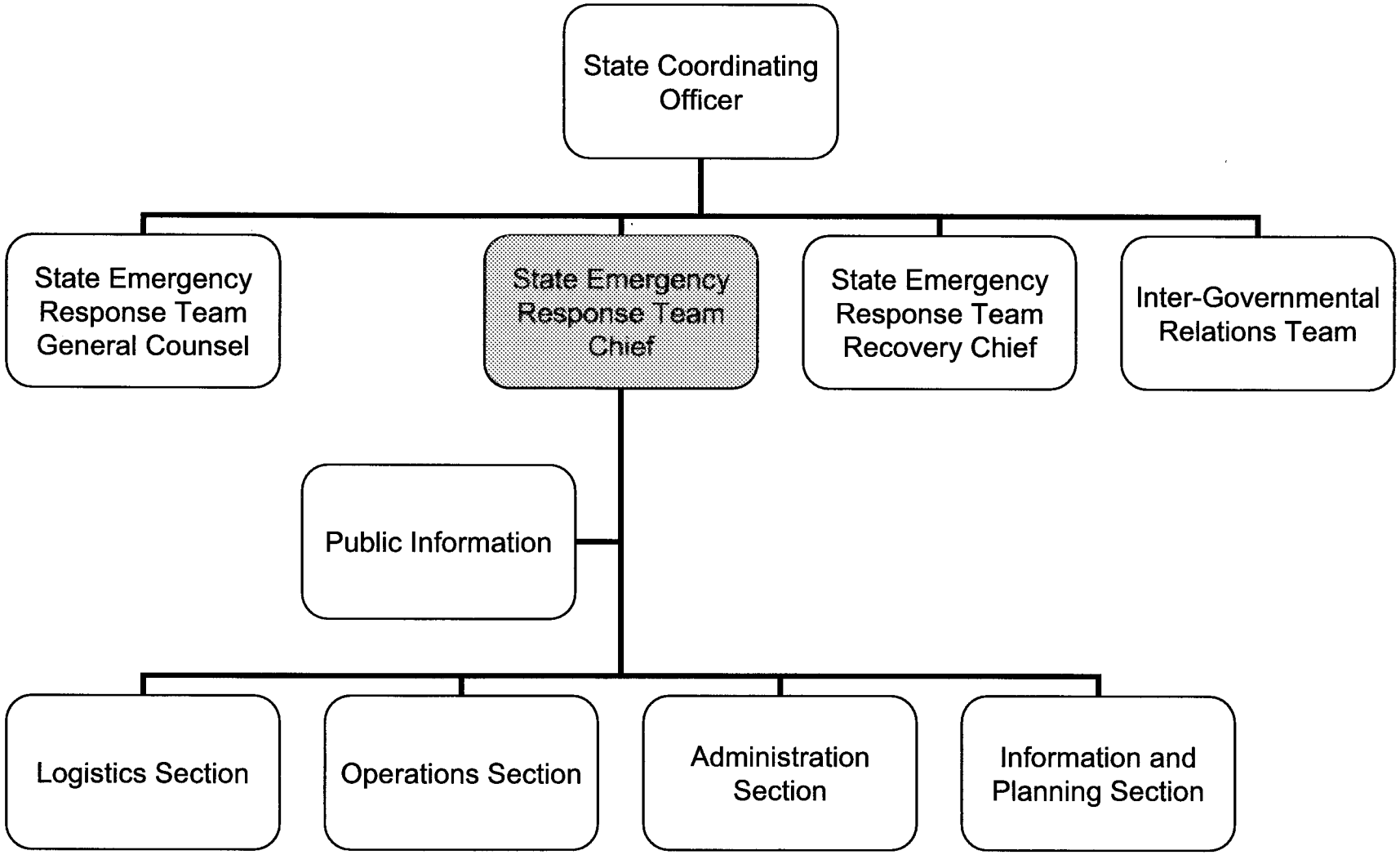


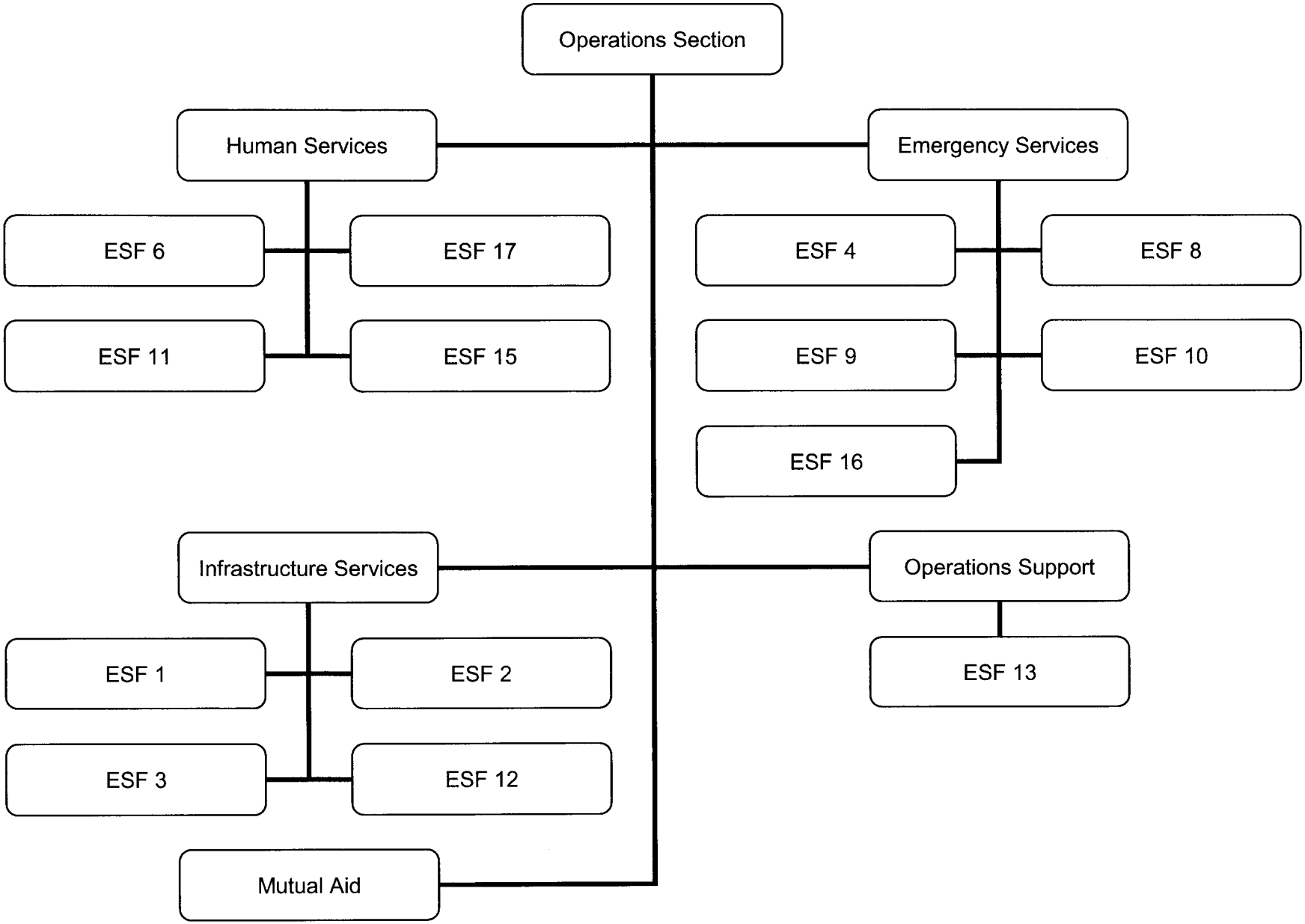
Florida Department of Health
Special Needs Shelter (SpNS) Census and Site Statistics



ESF8 Organizational Chart




State Coordinating Officer
State Emergency Response Team General Counsel
State Emergency Response Team Chief
State Emergency Response Team Recovery Chief
Inter-Governmental Relations Team
Public Information
Logistics Section
Operations Section
Administration Section
Information and Planning Section


Operations Section
Human Services
Emergency Services
ESF 6
ESF 17
ESF 11
ESF 15
ESF 4
ESF 8
ESF 9
ESF 10
ESF 16
Infrastructure Services
Operations Support
ESF 1
ESF 2
ESF 3
ESF 12
ESF 13
Mutual Aid