



SHELTER DEVELOPMENT REPORT

STATE OF FLORIDA 2022

Outlines the **State of Florida's** current hurricane evacuation shelter capacity and provides a recommendation on retrofit projects utilizing State funds to strengthen existing structures and increase the capacity to support Florida's vulnerable populations.

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EXECUTIVE SUMMARY

The Florida Division of Emergency Management (Division), as directed by section 252.385, Florida Statutes, annually publishes the *Shelter Development Report*. This report provides a list of facilities recommended to be retrofitted using State funds for use as public hurricane evacuation shelters.

The 2022 *Statewide Emergency Shelter Plan* (SESP), published in January 2022, has identified 1,027,763¹ hurricane evacuation shelter spaces available in Florida. An additional 48,999 spaces are expected to become available within the next 5 years through the retrofitting of previously identified buildings that are actively under contract and undergoing modifications, bringing the statewide total to 1,126,543¹ spaces.

This report recommends 262 shelter retrofit projects at an estimated cost of \$31,181,782, adding an estimated 100,350 new shelter spaces to the State's shelter inventory. If all recommended projects were completed, the statewide cumulative total spaces could increase to 1,226,893¹ spaces.

While the inventory of hurricane evacuation shelter space has increased statewide since the inception of the of Shelter Development Program, inventory fluctuates and will continue to decrease statewide with the aging of the current stock of public facilities and the approaching end of the useful life of products in older retrofit projects, unless the program continues. As existing buildings constructed to older building codes continue to age, replacement facilities, such as new construction or retrofit of recently constructed facilities, will be needed to ensure that State evacuation space capacities meet both current and future needs. Furthermore, changes in FEMA flood maps and National Weather Service (NWS) storm surge inundation maps have reduced the previously recognized quantity of hurricane evacuation shelter space in some regions. As the population of Florida continues to grow and development continues in risk-prone areas, the need for suitable hurricane evacuation facilities will continue to increase.

Each year, \$3 million is dedicated for shelter development projects through the Hurricane Loss Mitigation Program (HLMP) from part of the Florida Hurricane Catastrophe Fund (215.555(7)(c), F.S.). Since the establishment of the program in the early 1990s, the amount allocated to retrofit projects has not increased, while inflation and rising construction costs has decreased the number of projects able to be completed. Retrofit costs have increased by approximately \$299 per space (20 sq. ft.), resulting in a decreasing number of shelter spaces created each year. Additionally, shelter planners are preparing for an increase in demand for Special Needs Shelter (SpNS) spaces, which are larger and more expensive, increasing the costs for new spaces statewide. To keep pace with increasing retrofit/new construction costs and demand for larger space allocations, the Division recommends an increase in funding for the Hurricane Loss Mitigation Program (HLMP) Shelter Retrofit Program from \$3 million in 2022-2023 to \$10 million in 2023-2024.

¹ Information was provided prior to sustained impacts from Hurricane Ian. Information is subject to change.

I. OVERVIEW

A. PURPOSE

In 1993, following Hurricane Andrew which made landfall in 1992 as a Category 5 hurricane, chapter 252, Florida Statutes (F.S.) added, “It is the intent of the Legislature that this State not have a deficit of safe public hurricane evacuation shelter space ...”. (Sec.252.385 (1), Florida Statutes). By the late 1990’s, the State’s deficit of safe public hurricane evacuation spaces exceeded one million. The concern for an adequate amount of space to accommodate the expected evacuating populations led to a statewide program of surveying and inventorying facilities that could house evacuees when hurricanes threaten. By direction of the legislation, the Division annually issues the *Shelter Development Report* (“report”), providing a list of facilities recommended to be retrofitted or constructed using State funds. The objective of development is to improve relative safety and reduce the State’s hurricane evacuation space deficit.

Based on the biennial *Statewide Emergency Shelter Plan* (SESP), the assessments of available spaces in this report reflect only those listed in the SESP that meet the State’s minimum hurricane safety guidelines, which include protection from high winds, coastal storm surge, and inland flood waters. Florida recognizes the square footage space recommendations for General Populations set by the American Red Cross (ARC) in order to standardize the need and evaluate adequacy of spaces (20 sq. ft./space). Special Needs spaces, which by practice in Florida are increased to accommodate equipment and caregiving needs, are three times the single client space at 60 sq. ft./space. During a public health emergency, the minimum space requirement for both General Population and Special Needs hurricane evacuation shelters is increased to 60 sq. ft./evacuee.

The report is provided to the President of the Senate, the Speaker of the House of Representatives, and Governor, and recommends and prioritizes development projects based on each Regional Planning Council (RPC) public hurricane evacuation space status.

B. CURRENT SITUATION

In Florida, every county is at risk for hurricanes and hurricane-related hazards, including flooding, storm surge, high winds, and power outages. These hazards place specific physical, geographical, and infrastructure limitations on what is recognized as a suitable and safe hurricane evacuation space. Florida is particularly vulnerable to tropical systems, with three (3) major hurricanes making landfall in the past five (5) years (Irma, Michael, Ian). These large systems result in impacts well inland, to include non-coastal counties, and further underscores the need for shelter spaces in all regions.

Most Florida hurricane evacuation shelters are buildings which serve another public purpose during day-to-day operations, such as schools and publicly owned civic or recreation centers. Cumulatively, the State has sufficient space available for the general population during evacuations, but deficits remain in both individual counties, RPC regions, and when the public health emergency metric is applied.

The Legislature (HB 705) also requires one General Population shelter per county that can accept pets. 14 counties do not have facilities adequate to accommodate pets. Development of additional space is needed for individuals who would not otherwise evacuate an unsafe area during a storm without bringing their pet with them.

Following the 2020 public health emergency, evacuation shelter space requirements were updated to 60 sq. ft./evacuee to support social distancing, effectively cutting the available General Population spaces by two thirds. Statewide, there are insufficient spaces to meet General Population demand during a public health emergency in all 67 counties. Through [SB 2006](#), the Legislature requires the Division to track space availability in the event of any potential public health emergency and factoring in public health emergency spacing requirements into evacuation planning further underscores the importance of increasing available shelter spaces through development projects.

For the past two decades, the deficit in hurricane evacuation shelter space has decreased statewide, due to newer constructed public-school buildings meeting the Enhanced Hurricane Protection Area (EHPA) code provisions, additional buildings identified with as-is space, and others retrofitted when needed.

To accomplish development projects, a dedicated State funding source in the amount of \$3 million was specified by the Governor and Legislature within the Hurricane Loss Mitigation Program (HLMP) in 215.555(7)(c), F.S., from part of the Florida Hurricane Catastrophe Fund. Since the dedication of the program, the amount allocated to retrofit projects has not increased, while inflation and rising construction costs has decreased the number of projects able to be completed. The future safety of all our vulnerable citizens relies on the funding provided to increase the statewide public hurricane evacuation space inventory.

C. IMPACTS OF FUNDING CESSATION

The State retrofit program is the only reliable source of hurricane evacuation shelter space development funds and is needed to support shelter deficit reduction. In RPC regions where the deficit of hurricane evacuation shelter space has been eliminated, by statute and code, additional EHPA-compliant structures are not required to be built. This may leave individual counties currently having shelter space deficits with no other options for developing additional space within new or existing facilities. Also, the preference for larger rooms with more square footage (e.g., a gymnasium as compared to a classroom) and the need for standby electrical system support for Special Needs spaces has increased costs per hurricane evacuation shelter space.

The cost to retrofit each space has increased incrementally during the life of the program, and exponentially in the last two years, while the annual allocation has never increased since its initial dedication. Prior to 2008, the running average to develop each 20 sq. ft. space was about \$165. This average is now closer to \$547.20 per 20 Sq. Ft. space (Table 1-1). Accordingly, development of space for Special Needs Shelters (SpNS) require three times the average cost of a General Population space.

Per the IRS Information Letter referencing Index No. 61.00-00, dated November 21, 1994, obligations under contract cannot exceed the moneys in the Florida Hurricane Catastrophe Fund, which obligates \$3 million of HLMP funding to the Shelter Retrofit Program. To keep pace with increasing construction costs and demand for larger space allocations and using the number of spaces created in 2008 as a baseline, the HLMP shelter development program should be increased from current annual funding to \$10 million (Table 1-2).

Table 1-1: Decrease in Spaces Added Over Time with Fixed HLMP Allocation			
Year	Cost/Space	Funding Allocation	# Spaces Created
2008	\$165.00	\$3,000,000	18,181
2022	\$547.20	\$3,000,000	5,482 (-12,699)

Table 1-2: Justification for Raising Annual HLMP Allocation			
Year	Cost/Space	Maintain 2008 # Spaces Added	Funding Allocation Required
2008	\$165.00	18,181	\$3,000,000
2022	\$547.20	18,181	\$9,948,643.20

As illustrated in Table 1-3, from 1999 to 2013 about \$80 million in federal and State funds were committed toward retrofitting suitable facilities, which funded about 486,000 hurricane evacuation shelter spaces. It is noted that the federal funding was allowed through a separate program in years 1999-2002. Subsequent changes in the federal guidelines and definitions of the term “shelter” has meant that federal funding for hurricane evacuation shelter development is no longer available. Beginning in 2003, State funds allocated from the HLMP alone have been used for shelter space development. At this writing, with currently allocated funds of \$3 million annually through 2032, an estimated 54,824 (5,482/year) general population spaces will be added to the inventory of safe shelter space for Florida’s residents and visitors. With the continued growth of Florida’s population, the need for shelter space will continue. If the funding is not increased, the preparedness of Florida’s hurricane response will be severely diminished at both the State and local levels.

Table 1-3: Historical Summary of Florida's Hurricane Shelter Retrofit Program

Report Year	Annual Recommended Projects	Potential Spaces if Funded	Federal & State Funded Completed Projects	Spaces Gained
1999	\$16,185,193	88,679	\$8,473,341	72,230
2000	\$36,399,457	250,362	\$25,572,795	119,087
2001	\$26,943,516	119,905	\$5,233,731	20,574
2002	\$26,959,668	157,326	\$4,735,113	41,710
2003	\$23,349,714	137,985	\$3,000,000	33,381
2004	\$13,457,737	93,967	\$7,500,000	68,765
2005	\$11,882,722	68,882	\$3,000,000	24,481
2006	\$8,683,049	54,415	\$3,000,000	13,820
2007	\$10,956,377	82,930	\$6,607,263 ^b	25,645 ^a
2008	\$13,432,213	85,997	\$0	0 ^c
2009	\$11,777,884	69,465	\$3,000,000	14,427
2010	\$15,634,282	120,447	\$1,750,000	7,920 ^d
2011	\$20,337,203	109,308	\$2,250,000	14,974
2012	\$14,707,717	110,394	\$3,000,000	14,408
2013	\$12,745,072	87,150	\$3,000,000	14,810
2014	\$13,994,180	107,236	\$3,000,000	12,691 ^e
2015	\$15,188,945	117,609	\$3,000,000	11,165 ^e
2016	\$13,465,342	69,541	\$3,000,000	6,250 ^e
2017	\$13,794,763	65,303	\$3,000,000	6,250 ^e
2018	\$23,189,218	108,104	\$3,000,000	6,250 ^e
2019	\$30,864,820	141,050	\$3,000,000	6,250 ^e
2020	\$27,068,133	114,226	\$3,000,000	6,250 ^e
2021	\$31,181,782	100,350	\$3,000,000	6,250 ^e
2022	\$6,489,792	11,860	\$1,587,909	3,308
TOTAL	\$438,688,779	2,472,491	\$105,710,152	550,896

^a- \$6,607,263 was based on federal funds plus state match for FY 2007/2008 HB7121 and non-federal matched projects from Special Appropriation 1621X

^b- 25,645 spaces were gained from HB 7121 & 1621X shelter retrofit projects

^c- For Fiscal Year 08-09, no funds were appropriated for the Shelter Development Report

^d- 7,920 reflects gain from FY 2010/2011 Specific Appropriation 1617 at \$1,750,000

^e- FY 14-15 through FY 21-22 funding partially allocated (funding is obligated or under contract). Total spaces gained are estimated to be 50,000 (\$3 million annually / \$480 per space)

II. STRATEGY FOR PUBLIC SHELTER DEFICIT REDUCTION

Per Section 252.35, Florida Statutes, the Division is responsible for developing a strategy to eliminate the deficit of public hurricane evacuation shelter space in Florida. To accomplish this task, the Division developed the following multifaceted approach:

A. Develop and Implement the Model Hurricane Evacuation Shelter Survey Guidelines

The Division is responsible for administering a survey program of existing schools, universities, community colleges, and other State, county, and municipally owned public buildings. Survey criteria include coastal, riverine, and lake storm surge; rainfall flooding and high wind hazards; and a basic Least-Risk Decision Making (LRDM) model and report format. The survey reports give preference to building qualities or features that performed well during Hurricane Andrew and avoids (or mitigates) those that performed poorly, and are updated to accommodate modern building codes, standards, guidelines, and practices.

B. Implement Hurricane Evacuation Shelter Survey Program

The Division completed development and implementation of the LRDM survey and report procedures by 1997 and completed the first statewide baseline survey in 2005. The survey program continues as new facilities are constructed and older existing facilities require resurveying and updating. The Hurricane Evacuation Shelter Survey Program continues to improve accuracy and capture changes in the statewide inventory of hurricane evacuation shelters. The results of the surveys are used by State and local agencies to prepare and implement strategies to reduce and eliminate the deficit of recognized hurricane evacuation shelter space.

C. Retrofit/Construct Appropriate Facilities to Meet Public Shelter Guidelines

Since 1999, the State Legislature has provided recurring funds for retrofit projects listed in the annual *Shelter Development Report*. The retrofit projects identified through the survey program are recommended only when the retrofit can create spaces that meet the minimum safety criteria upon completion of the project.

For Fiscal Year 2022-2023, the State Legislature appropriated \$3 million to construct or retrofit public hurricane evacuation shelters, which will create an estimated 5,482 additional General Population spaces at current construction rates. The useful lifespan of retrofit products is expected to be about 15 years. Even with regular maintenance, products subject to harsh conditions will deteriorate over that span of time. Considering the aforementioned increase in construction cost, the lack of funding increase since its initial dedication and the lifespan of products, an increase in dedicated funding for the Shelter Development Program is recommended.

D. Incorporate Hurricane Evacuation Shelter Design Criteria into New Public Building Construction Projects

The Florida Department of Education (FDOE) appointed a committee to develop a public shelter design criterion for use in new school facility construction projects. The committee included representatives from many stakeholder agencies (e.g., State and local emergency management, school boards, community college and university officials, the American Red Cross, architects, engineers, etc.). The charge of the committee was to develop a set of practical and cost-effective design criteria to ensure that appropriate new educational facilities can serve the public for emergency management purposes. The final criterion recommended by the committee was consistent with the current safety criteria expressed in the LRDM surveys used by the Division.

Schools are funded primarily by State and local capital outlay funds, and school districts are reporting that the EHPA construction cost premium is about 3-9%. Since 1997, EHPA construction has created 461,715 spaces which accounts for about 44% of the statewide risk recognized space inventory.

E. Improve Methods Utilized to Determine Shelter Demand

Hurricane evacuation studies have historically indicated that at least 25% of a vulnerable population would seek public shelter during an evacuation event. However, a 2021 evacuation and demand study indicated that less than 10% will seek public shelter. This is consistent with the findings of recent post-storm assessments that indicate less than 10% of vulnerable populations sought public shelter. Although the

percentage reduction in shelter use changes the demand formula, the growth of the population in the State offsets some of the reduction in space needs. As of this writing, percentage demand is stable but increasing proportionally with vulnerable population numbers despite the observed behavioral change. Consequently, inventories of evacuation spaces will need to keep pace.

Also, changes in FEMA flood maps and NWS storm surge maps, coupled with recent population and demographic trends reflected in evacuation studies, created a significant increase in space demand beginning in 2016, which continues to impact demand currently. Forecasting for the five-year period indicates higher demand for special needs shelters, specifically. These demand figures do not account for the aging of the current stock of public shelters nor the approaching end of the useful life of the original retrofit products. The 2021 *Statewide Regional Evacuation Studies* (SRES) and the 2022 audit of SESP resulted in changes in the demand for sheltering by county. Florida’s aggregate statewide hurricane evacuation shelter space demand found in Table B-1 (see Appendix B) is 862,036 spaces for 2022.

III. STATEWIDE PROGRESS IN SHELTER DEFICIT REDUCTION

A. PROGRESS REPORT

Since 1995, Florida has made significant progress toward improving the safety and availability of public hurricane evacuation shelter space. The combination of comprehensive strategy of surveys, retrofitting of existing buildings, new construction, evacuation studies, and educating counties on the criteria to consider when retrofitting an existing building as a shelter or designing a new shelter is the basis for the success. An expansion in storm surge/evacuation zones, aging building stock, and decommissioned school buildings plus changes in planned local school room use has resulted in a decrease of nearly 20% of the inventory of available spaces since 2012. The chart below compares the findings of the studies conducted between 2012 and 2022.

Year	General Population	Special Needs	Public Health Emergency
2012	125,205	-20,829	n/a
2014	88,601	-14,218	n/a
2016	74,567	-23,431	n/a
2018	100,027	-19,956	n/a
2020 ^a	113,989	-9,139	37,996
2022 ₁	144,071	-3,312	-1,466,581

^a FY 2020-2021 statewide evacuation study identified reduction in shelter demand from 25% to 10%

For a more in-depth look at the spaces created through retrofitting of existing facilities using state funds and spaces created through design and construction of new public-school facilities to EHPA code provisions while showing the estimated shelter demand for 2021, please review *Hurricane Evacuation Space Deficit Reduction Progress 1995-2021* in Appendix B.

In Fiscal Year 2020-2021, the statewide evacuation study was updated. It employed anonymous, smart location-based services data for analysis of evacuations trends. Behavior observed from recent storms since 2016, including Hurricanes Matthew, Irma, and Michael, continue to show an overall reduction in potential shelter demand. The continuing success of retrofitting existing buildings, construction of newer schools, changes in the building code requiring impact resistance, and the ongoing shelter survey program at the Division continues to reduce demand on public facilities at the regional level; however, there is still more work to be done regarding reduction of the evacuation space deficit.

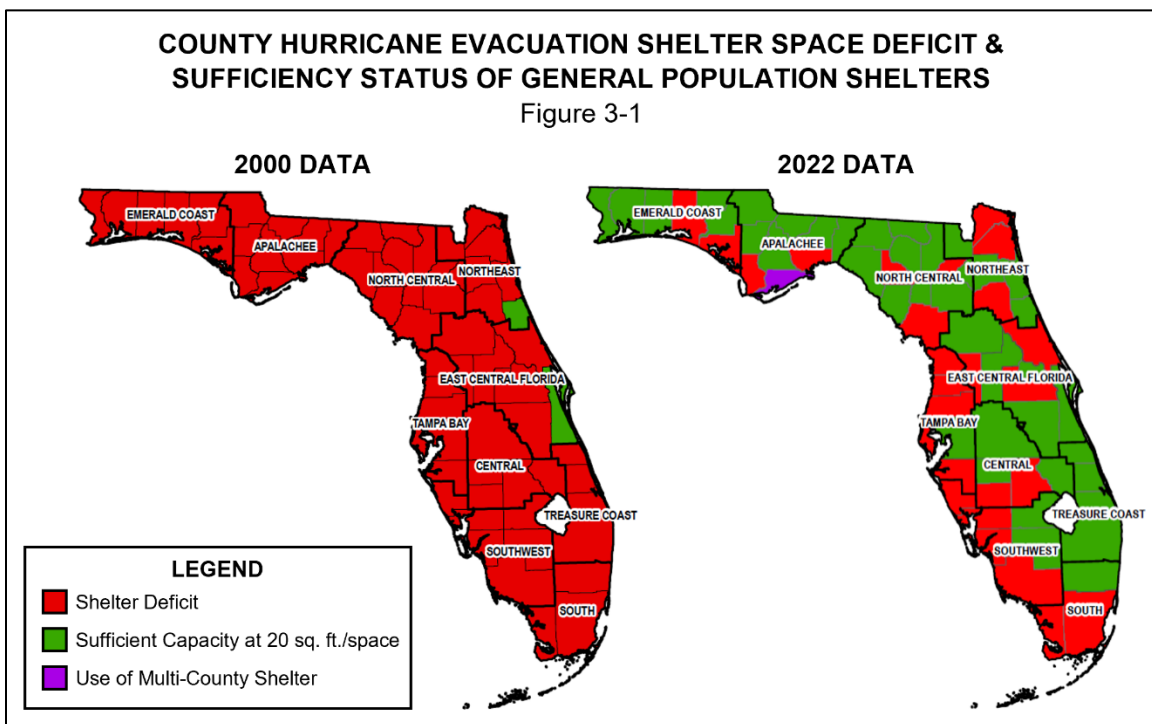
B. AREAS OF CONCERN

1. The Shelter Development Program must continue to create new spaces. Without the sustainment of this program and the additional spaces added each year, the overall statewide sufficiency would revert to deficit levels. For a list of retrofitted spaces completed or under construction after 2012 in this program, see Appendix B, Table B-1.

2. Spaces for special populations, such as people with pets that need shelter or individuals who are medically or electrically dependent, are still in deficit in almost half of Florida's counties (38 of 67) despite space additions over the same period¹.

3. A detailed audit of the Statewide Emergency Shelter Plan inventory completed by the Division in April 2022 revealed that, two (2) regions, Tampa Bay and Southwest Florida, still have General Population demand deficits. Southwest Florida remains the region with the largest deficit in spaces¹. Although there are on-going retrofit projects in the region, factors such as geographically large storm surge areas and few opportunities to retrofit buildings have prevented the region from attaining more space. The statewide sufficiency itself does not reflect the need in these regions of concern. Currently, the State has five (5) regions with deficits in buildings and spaces equipped to evacuate individuals with Special Needs¹.

The maps presented in Figure 3-1 underscore the value of this program for the State of Florida.



IV. METHODOLOGY FOR PRIORITIZATION

The hurricane evacuation shelter space deficit information used for this report was published in the 2022 SESP. The 2022 SESP determined that eight out of ten regions had no hurricane evacuation shelter space deficits. However, even though there may be sufficient cumulative capacity within regions, many individual counties still have deficits. The 2022 SESP determined that only four regions of the State have adequate special needs spaces. The remaining six regions have deficits.

In prioritizing projects, the Division based its recommendations on the criteria found in statute and described below. All projects - at completion - must meet the minimum safety standards set by the Division in its Least

Risk Decision Making (LRDM) reports. Projects are not recommended when a condition exists that would exclude the building as a shelter. The following is a listing of the specific criteria used by Division staff to recommend each project based upon information provided with each project report.

Recommended project is located within an RPC Region with a deficit of General Population Hurricane Evacuation Risk Shelter Space:

Section 252.385(3), F.S., directs that priority be given to regions of the State where shelter deficits are greatest. Regional hurricane evacuation shelter space deficit data was provided by the 2022 SESP.

Recommended project is located within a County with a deficit of General Population Hurricane Evacuation Risk Shelter Space:

Though regions are the highest priority in ranking, evacuations are generally local with emergency managers recommending that evacuees travel tens of miles instead of hundreds of miles. County hurricane evacuation shelter space deficit data was provided by the 2022 SESP.

Recommended project is located within an RPC Region with a deficit of Special Needs Shelter (SpNS) Hurricane Evacuation Risk Shelter Space:

The 2022 SESP identified that even when there may be sufficient General Population shelter space, there may still be a deficit in SpNS space.

Recommended project is located within a County with a deficit of Special Needs Shelter (SpNS) Hurricane Evacuation Risk Shelter Space:

Though regions are the highest priority in statute, evacuations are generally local with emergency managers recommending that evacuees travel tens of miles instead of hundreds. The 2022 SESP noted that even when there may be sufficient General Population shelter space, there may still be a deficit in SpNS space.

Recommended project is located within a County without a pet friendly Hurricane Evacuation Risk Shelter Space

In 2019, the Legislature required that each county have at least one (1) shelter that accepts pets. Therefore, this new priority has been added to validate this type of retrofit project.

OTHER CONSIDERATIONS:

Building Ownership and Availability for Use as a Public Hurricane Evacuation Risk Shelter:

Public buildings by statute may be activated for use as an emergency shelter. Public facilities are generally those that are subject to inclusion in the Division's public hurricane evacuation shelter survey program. Private facilities, such as religious, civic, or fraternal organizations' multi-purpose buildings, private schools, arenas, stadiums, convention, or conference centers were recommended for retrofit based upon local need for public shelter space, previous history as a public shelter, and/or existing written agreements and endorsement by the local emergency management director. Full availability means that, during a declared local state of emergency and upon request by local emergency management, the public shelter function will take priority over all other activities.

Cost-Effectiveness of Project(s):

Recommended projects, upon completion, must increase the number of shelter spaces available in the county and region. This item serves to maximize use of State funds.

Age of Building:

Structures are evaluated to shelter individuals during a severe windstorm or major hurricane; therefore, the lifespan of the building, construction, and structural and envelope characteristics are considered when determining retrofit eligibility. Typically, unreinforced masonry walls, flat lightweight roofs over uncertified long spans, pre-engineered metal buildings, lack of load-path connectors, etc. will disqualify a building from consideration. Additionally, buildings designed and constructed to the Florida Building Code (2003-present) are expected to perform better than those built to an older code with less stringent wind design. In some counties, where the availability of newer buildings is rare, this priority is waived.

Hazard and Building Design and Construction Criteria:

There is only nominal value to installing window protection systems on a shelter building if there are other “weak links” that are limiting factors for the building’s hurricane performance. Storm surge and rainfall are important factors when reviewing and prioritizing a building as a potential hurricane evacuation shelter.

Critical building envelope features (exterior wall and roof construction, percentage of glass in exterior walls, long span roof, etc.), year built to determine design wind code requirements, presence of interior core area or storm room, and other construction factors must be included in the decision to utilize the building as a hurricane evacuation shelter and establish its priority for retrofitting.

Recommendation for retrofit cannot be justified if the given facility is subject to the below hazards that cannot be overcome through retrofitting:

1. The facility is in a Sea, Lake, and Overland Surges from Hurricanes (SLOSH) or Storm Surge evacuation zone. The point system used for this item is generally consistent with Section 1013.372(1), F.S., that exempts educational facilities from the public shelter design criteria if located within a Category 1, 2, or 3 Evacuation Zone.
2. The facility is in a flood zone according to the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM) flood zone (as established in the most recently published FIRM). Exception is given on occasion to those counties (such as Miami-Dade and Collier) whose populations live in areas that are extremely flat and provide very limited natural drainage.

V. RECOMMENDATIONS

A. PROJECT IDENTIFICATION PROCEDURES

While the Division’s hurricane evacuation shelter survey work product acts as the basis for data used to compile the report, the Division recognizes local professionals are aware of public spaces and are positioned to make the best recommendations to serve their communities. The *Shelter Development Report* is a collaborative effort between the local school boards, public and private agencies, and county emergency managers. County emergency managers report changes or updates annually to their local shelter planning department and to the Division as a contribution to the report’s data. Other information is provided by the Florida Department of Management Services (DMS) and Florida Department of Education (DoE), whose buildings are the primary cohort of public evacuation shelter space.

Data is compiled into a potential project list to determine if a facility could meet the Division’s LRDM safe shelter guidelines once completed. Division staff review the potential projects, from the current and previous years, and prioritize projects according to statute to address the need for additional shelter space in the RPC regions and counties with deficits. The State’s criteria consist of the following:

- Regional and Local Shelter Space Deficits
- Structural and Hazard Vulnerability Review, Including Flood and Storm Surge
- Shelter Capacity Increase, Building Ownership and Availability, and Cost-Effectiveness Considerations

- Other Considerations / Demonstration of Impact upon the State and Regional Shelter Deficit Situation and Special Populations (e.g., medical needs, electrically dependent, and pet-friendly availability).

For more details on each criterion, please review Section IV: Methodology for Prioritization.

B. PROJECTS RECOMMENDED

The Division has identified 262 projects able to meet the hurricane evacuation shelter standard after retrofitting. Each proposed project is required to rank as either “preferred” or “less preferred/marginal” for all survey criteria on the respective LRDM report when the project is complete. All projects were evaluated using factors such as: regional and local (county) hurricane evacuation shelter space deficit; greatest provision of space; cost efficiency per space; and vulnerability to high winds and storm surge. For the complete list of recommended projects see Appendix A.

Table 5-1 provides a summary of the proposed shelter development projects; the RPC and county served; the construction-related estimated costs of the proposed projects; and the total hurricane evacuation shelter space capacity that will be created upon completion.

Table 5-1: 2022 Shelter Development Report Recommended Projects (08/31/2022)			
RPC	County	SDR Project Cost Estimate	Spaces Added
Emerald Coast			
Emerald Coast	Bay	\$991,740.00	1,837
Emerald Coast	Walton	\$1,181,112	2,871
Emerald Coast Totals:		\$2,172,852	4,708
Apalachee			
Apalachee	Calhoun	\$500,000	1,000
Apalachee	Gadsden	\$900,613	2,795
Apalachee	Jackson	\$225,000	100
Apalachee	Jefferson	\$225,000	509
Apalachee	Leon	\$1,071,325	4,343
Apalachee	Liberty	\$361,000	937
Apalachee	Suwannee	\$175,000	0
Apalachee	Wakulla	\$1,695,525	5,217
Apalachee Totals:		\$5,153,463	14,901
North Central Florida			
North Central Florida	Alachua	\$913,852	2,521
North Central Florida	Columbia	\$417,822	1,147
North Central Florida	Hamilton	\$973,700	2,996
North Central Florida	Taylor	\$879,700	2,385
North Central Florida Totals:		\$3,185,074	9,049
Northeast Florida			
Northeast Florida	Clay	\$160,000	285
Northeast Florida	Duval	\$1,217,125	3,745
Northeast Florida	Flagler	\$650,800	1,464
Northeast Florida	Nassau	\$811,602	3,850
Northeast Florida Totals:		\$2,839,527	9,344
East Central Florida			
East Central Florida	Lake	\$389,265	1,355

East Central Florida	Marion	\$16,000	295
East Central Florida	Orange	\$1,651,968	10,434
East Central Florida	Osceola	\$2,280,250	3,961
East Central Florida	Seminole	\$175,780	799
East Central Florida	Sumter	\$345,600	1,565
East Central Florida	Volusia	\$2,193,805	7,833
East Central Florida Totals:		\$7,052,668	26,242
Central Florida			
Central Florida	DeSoto	\$490,825	1,859
Central Florida	Hardee	\$234,900	220
Central Florida	Highlands	\$721,875	1,735
Central Florida	Okeechobee	\$190,000	1,160
Central Florida	Polk	\$603,675	1,259
Central Florida Totals:		\$2,241,275	6,233
Tampa Bay			
Tampa Bay	Citrus	\$452,130	1,479
Tampa Bay	Hernando	\$377,579	1,510
Tampa Bay	Manatee	\$93,329	1,325
Tampa Bay	Pasco	\$3,357,875	9,383
Tampa Bay	Pinellas	\$624,970	2,063
Tampa Bay Totals:		\$4,905,883	15,760
Southwest Florida			
Southwest Florida	Charlotte	\$561,250	1,050
Southwest Florida	Glades	\$52,875	235
Southwest Florida	Lee	\$850,290	5,015
Southwest Florida	Sarasota	\$215,100	706
Southwest Florida Totals:		\$1,679,515	7,006
Treasure Coast			
Treasure Coast	Indian River	\$40,800	184
Treasure Coast	Martin	\$605,725	2,881
Treasure Coast	Palm Beach	\$111,500	500
Treasure Coast	St. Lucie	\$230,000	882
Treasure Coast Totals:		\$988,025	4,447
South Florida			
South Florida	Broward	\$770,000	1,800
South Florida	Miami-Dade	\$193,500	860
South Florida Totals:		\$963,500	2,660
Statewide Total		\$31,181,782	100,350

If funded, the projects listed in this report will provide an estimated increase of 100,350 hurricane evacuation shelter spaces at a cost of \$31,181,782 (estimated construction-related costs). Projects that include a standby electrical system power source add to the overall functionality and sustainability of a shelter, but do not increase shelter space capacity. Standby electrical system projects will decrease the special needs space deficits in counties and regions where sufficient general population shelters are already in place.

¹ Information was provided prior to sustained impacts from Hurricane Ian. Information is subject to change.

**APPENDIX A:
2022 SHELTER DEVELOPMENT REPORT RECOMMENDED PROJECTS**

RPC	County	Site Name/Bldg ID	Year Built	Spaces Added	Project Description	SRR Project Estimate
Emerald Coast						
Emerald Coast	Bay	Jinks MS Music CR 6	2003	125	Fenestration Protection	\$63,125
Emerald Coast	Bay	Jinks MS Band CR 10	2000	125	Fenestration Protection	\$63,125
Emerald Coast	Bay	Moseley HS Media	2004	736	Fenestration Protection	\$261,280
Emerald Coast	Bay	Mowat MS Gym	2009	851	Fenestration Protection	\$302,105
Emerald Coast	Bay	Mowat MS 11 CR	2009	851	Fenestration Protection	\$302,105
Emerald Coast	Walton	Mossy Head D CR	2006	307	Fenestration Protection	\$162,450
Emerald Coast	Walton	Mossy Head E Caf	2006	336	Fenestration Protection	\$175,650
Emerald Coast	Walton	Walton MS AB CR	2012	194	Fenestration Protection	\$145,875
Emerald Coast	Walton	Walton MS C CR	2012	194	Fenestration Protection	\$88,950
Emerald Coast	Walton	Walton MS DE Gym	2012	744	Fenestration Protection	\$203,112
Emerald Coast	Walton	Walton MS FG CR	2012	157	Fenestration Protection	\$96,300
Emerald Coast	Walton	Walton MS FHJ Media	2012	266	Fenestration Protection	\$89,700
Emerald Coast	Walton	Walton MS MQ CR	2012	236	Fenestration Protection	\$56,400
Emerald Coast	Walton	Walton MS NP CR	2012	159	Fenestration Protection	\$46,800
Emerald Coast	Walton	Walton MS R CR	2012	90	Fenestration Protection	\$25,650
Emerald Coast	Walton	Walton MS S Admin	2012	107	Fenestration Protection	\$58,275
Emerald Coast	Walton	Walton MS T CR	2012	81	Fenestration Protection	\$31,950
Apalachee						
Apalachee	Calhoun	Altha ES 2 CR	2015	422	Fenestration Protection/GenSet	\$211,000
Apalachee	Calhoun	Altha ES 5 CR	2015	449	Fenestration Protection/GenSet	\$224,500
Apalachee	Calhoun	Blountstown HS	2011	129	Fenestration Protection/GenSet	\$64,500
Apalachee	Gadsden	Gadsden County HS 2 Media	2001	525	Fenestration Protection	\$210,000
Apalachee	Gadsden	Gadsden County HS 3 CR	2001	525	Fenestration Protection	\$210,000
Apalachee	Gadsden	West Gadsden MS 6 Music	2005	104	Fenestration Protection	\$41,600
Apalachee	Gadsden	Greensboro ES (aka HS) 2 CR	1994	454	Fenestration Protection	\$68,061
Apalachee	Gadsden	Greensboro ES (aka HS) 3 Caf	1994	187	Fenestration Protection	\$45,952
Apalachee	Gadsden	Gadsden Community Hospital	tbd	628	Fenestration Protection/GenSet	\$460,000
Apalachee	Jackson	Graceville HS	tbd	100	Need LRDM	\$225,000
Apalachee	Leon	FAMU DRS 3 CR	2007	672	Fenestration Protection	\$183,975
Apalachee	Leon	FAMU DRS 5 CR	2007	532	Fenestration Protection	\$119,700
Apalachee	Leon	FAMU DRS 6 CR	2007	557	Fenestration Protection	\$40,500
Apalachee	Leon	FAMU Campus / 029-Recreation Center - Phase 1 - 2004 Fitness & Multipurpose *upper-level(s)*	2004	tbd	Fenestration Protection	tbd
Apalachee	Leon	FAMU Campus / 029-Recreation Center - Phase 2 - 2008 Basketball Gym (South Addition)	2009	tbd	Fenestration Protection	tbd
Apalachee	Leon	Lawton Chiles HS 9 CR	2004	344	Fenestration Protection	\$40,275
Apalachee	Leon	Augusta RAA MS 4 CR	2004	227	Fenestration Protection	\$51,075
Apalachee	Leon	Augusta RAA MS 6 CR	2007	186	Fenestration Protection	\$41,850
Apalachee	Leon	Lawton Chiles HS 14 CR	2007	180	Fenestration Protection	\$40,500
Apalachee	Leon	Lawton Chiles HS 6 Gym	1998	618	Engineering / Fenestration Protection	\$139,050
Apalachee	Leon	Woodville ES 8 Cafeteria	2015	154	Fenestration Protection	\$34,650
Apalachee	Leon	Augusta RAA MS 18 Cafeteria	2004	148	Fenestration Protection	\$33,300
Apalachee	Leon	Lawton Chiles HS 7 CR	1998	307	Fenestration Protection	\$69,075
Apalachee	Leon	Lawton Chiles HS 8 CR	1998	227	Fenestration Protection	\$51,075
Apalachee	Leon	Lawton Chiles HS 5 Aud	1998	105	Engineering/ Fenestration Protection	\$136,125
Apalachee	Leon	Lawton Chiles HS 3 Cafeteria	1997	46	Engineering/ Fenestration Protection	\$73,575
Apalachee	Leon	FAMU DRS 2 Admin/Media	2007	40	Fenestration Protection	\$16,600
Apalachee	Liberty	New HS 1 CR	2020	395	Fenestration Protection	\$158,000
Apalachee	Liberty	New HS 2 Admin & Art	2020	147	Fenestration Protection	\$45,000
Apalachee	Liberty	New HS 3 CR	2020	395	Fenestration Protection	\$158,000
Apalachee	Suwanee	Suwanee ES - for pets	2008	0	Fenestration Protection	\$175,000
Apalachee	Wakulla	Crawfordville ES 2 CR	2002	330	Fenestration Protection	\$107,250
Apalachee	Wakulla	Crawfordville ES 3 CR	2002	243	Fenestration Protection	\$78,975
Apalachee	Wakulla	Crawfordville ES 5 CR	2002	255	Fenestration Protection	\$82,875
Apalachee	Wakulla	Crawfordville ES 6 CR	2002	294	Fenestration Protection	\$95,550
Apalachee	Wakulla	Crawfordville ES 7 CR	2002	270	Fenestration Protection	\$87,750
Apalachee	Wakulla	Riversink ES 2 CR	2007	435	Fenestration Protection	\$141,375
Apalachee	Wakulla	Riversink ES 3 Cafeteria	2007	312	Fenestration Protection	\$101,400
Apalachee	Wakulla	Riversink ES 5 CR	2007	446	Fenestration Protection	\$144,950
Apalachee	Wakulla	Riversink ES 6 CR	2007	398	Fenestration Protection	\$129,350
Apalachee	Wakulla	Shadeville ES 3A CR	2002	78	Fenestration Protection	\$25,350
Apalachee	Wakulla	Shadeville ES 3B CR	2002	77	Fenestration Protection	\$25,025
Apalachee	Wakulla	Crawfordville ES 4 CR	2002	27	Fenestration Protection	\$8,775
Apalachee	Wakulla	Riversink ES 4	2007	27	Fenestration Protection	\$8,775
Apalachee	Wakulla	Shadeville ES 1A	1989	473	Fenestration Protection	\$153,725
Apalachee	Wakulla	Shadeville ES 8 CR	1992	312	Fenestration Protection	\$101,400
Apalachee	Wakulla	Riversprings MS 1A	1999	223	Fenestration Protection	\$72,475
Apalachee	Wakulla	Riversprings MS 1B	1999	227	Fenestration Protection	\$73,775
Apalachee	Wakulla	Riversprings MS 1C	1999	268	Fenestration Protection	\$87,100
Apalachee	Wakulla	Shadeville ES 1B	1989	249	Fenestration Protection	\$80,925

RPC	County	Site Name/Bldg ID	Year Built	Spaces Added	Project Description	SRR Project Estimate
Apalachee	Wakulla	Shadeville ES 1C	1989	249	Fenestration Protection	\$80,925
Apalachee	Wakulla	Riversprings MS 1D	1999	24	Fenestration Protection	\$7,800
North Central Florida						
North Central Florida	Alachua	W.S. Talbot ES 4 CR	2005	379	Fenestration Protection	\$127,344
North Central Florida	Alachua	H. Bishop MS 31 CR	2004	186	Fenestration Protection	\$62,496
North Central Florida	Alachua	W.T. Loftin SHS 24 Cafeteria / CR	2007	670	Fenestration Protection	\$300,160
North Central Florida	Alachua	M.K. Rawlings ES 4 Cafeteria	2006	207	Fenestration Protection	\$69,552
North Central Florida	Alachua	Santa Fe SHS 34 CR (west)	2008	414	Fenestration Protection	\$206,850
North Central Florida	Alachua	Duval Academy 4 Cafeteria	1997	225	Fenestration Protection	\$23,250
North Central Florida	Alachua	J. Williams ES 6 CR	1997	230	Fenestration Protection	\$62,100
North Central Florida	Alachua	J. Williams ES 7 Cafeteria	1999	210	Genset Protect Enclosure	\$62,100
North Central Florida	Columbia	Fort White HS 5 Gym	1999	510	Fenestration Protection	\$136,082
North Central Florida	Columbia	Fort White HS 9 Cafeteria	1999	367	Fenestration Protection	\$71,932
North Central Florida	Columbia	Fort White MS 27 Multipurpose	2007	162	Fenestration Protection	\$87,000
North Central Florida	Columbia	Fort White MS 26 CR	2007	108	Fenestration Protection	\$122,808
North Central Florida	Hamilton	Hamilton County ES 28 Cafeteria	2015	2250	Fenestration Protection	\$731,250
North Central Florida	Hamilton	Hamilton County HS 8 Cafeteria	2003	746	Fenestration Protection	\$242,450
North Central Florida	Taylor	Steinhatchee School 5 CR	1996	509	Fen. Protection& Genset	\$270,000
North Central Florida	Taylor	Taylor County ES 3 CR	2002	672	Fenestration Protection	\$218,400
North Central Florida	Taylor	Taylor County ES 6 CR	2002	571	Fenestration Protection	\$185,575
North Central Florida	Taylor	Taylor County ES 5 CR	2002	341	Fenestration Protection	\$110,825
North Central Florida	Taylor	Taylor County ES 4 CR	2002	292	Fenestration Protection	\$94,900
Northeast Florida						
Northeast Florida	Clay	Argyle ES 3 CR	2003	285	Fenestration Protection	\$160,000
Northeast Florida	Duval	Don Brewer ES 1D CR	2001	801	Fenestration Protection	\$260,325
Northeast Florida	Duval	Kernan Trail ES 1D CR	2002	839	Fenestration Protection	\$272,675
Northeast Florida	Duval	Oceanway ES 1D CR	2001	827	Fenestration Protection	\$268,775
Northeast Florida	Duval	Bartram Springs ES 1A CR	2009	374	Fenestration Protection	\$121,550
Northeast Florida	Duval	Bartram Springs ES 1B CR	2009	455	Fenestration Protection	\$147,875
Northeast Florida	Duval	Waterleaf ES 1B CR	2011	449	Fenestration Protection	\$145,925
Northeast Florida	Flagler	Belle Terre ES 3 CR	2004	464	Fenestration Protection	\$150,800
Northeast Florida	Flagler	Matanzas HS	2004	1000	Genset	\$500,000
Northeast Florida	Nassau	Wildlight ES 3	2016	386	Fenestration Protection	\$86,850
Northeast Florida	Nassau	Wildlight ES 4	2016	351	Fenestration Protection	\$78,975
Northeast Florida	Nassau	Wildlight ES 5	2016	393	Fenestration Protection	\$88,425
Northeast Florida	Nassau	Wildlight ES 6	2016	359	Fenestration Protection	\$80,775
Northeast Florida	Nassau	Yulee HS 4 Gym	2005	350	Fenestration Protection	\$77,000
Northeast Florida	Nassau	Yulee HS 6 Cafeteria	2005	350	Fenestration Protection	\$77,000
Northeast Florida	Nassau	Callahan IS 7 CR	2009	190	Fenestration Protection	\$32,490
Northeast Florida	Nassau	Yulee PS 10 CR	2009	190	Fenestration Protection	\$43,130
Northeast Florida	Nassau	Bryceville ES 2 CR	2005	177	Fenestration Protection	\$35,931
Northeast Florida	Nassau	Bryceville ES 7 CR	2007	167	Fenestration Protection	\$36,072
Northeast Florida	Nassau	Callahan IS 3 CR	1999	215	Fenestration Protection	\$45,365
Northeast Florida	Nassau	Callahan IS 4 CR	1999	265	Fenestration Protection	\$43,195
Northeast Florida	Nassau	Callahan IS 5 CR	1999	263	Fenestration Protection	\$43,132
East Central Florida						
East Central Florida	Lake	Pine Ridge ES 4 Cafeteria	2002	213	Fenestration Protection and Genset	\$47,925
East Central Florida	Lake	Lake Minneola HS Caf	2010	327	Fenestration Protection	\$80,115
East Central Florida	Lake	Lake Minneola HS Gym	2010	415	Fenestration Protection	\$93,375
East Central Florida	Lake	South Lake SHS 15 Cafeteria	2004	400	Genset	\$167,850
East Central Florida	Marion	Saddlewood ES 4 CR	2010	295	Fenestration Protection	\$16,000
East Central Florida	Orange	Meadowbrook MS 6 CR	2005	532	Fenestration Protection	\$43,262
East Central Florida	Orange	Meadowbrook MS 7 CR	2005	528	Fenestration Protection	\$61,534
East Central Florida	Orange	Wekiva HS 4 CR	2007	807	Fenestration Protection	\$178,836
East Central Florida	Orange	Wekiva HS 8 Aud/CR	2007	776	Fenestration Protection	\$108,121
East Central Florida	Orange	West Orange HS 4 CR	2008	710	Fenestration Protection	\$176,229
East Central Florida	Orange	West Orange HS 5 CR	2008	1,628	Fenestration Protection	\$247,726
East Central Florida	Orange	West Orange HS 6 CR	2008	792	Fenestration Protection	\$170,537
East Central Florida	Orange	West Orange HS 8 Aud/CR	2008	777	Fenestration Protection	\$127,198
East Central Florida	Orange	Avalon MS 2 CR	2006	335	Fenestration Protection	\$47,464
East Central Florida	Orange	Avalon MS 6 CR	2006	425	Fenestration Protection	\$60,595
East Central Florida	Orange	Avalon MS 7 CR	2006	491	Fenestration Protection	\$60,922
East Central Florida	Orange	Avalon MS 8 CR	2006	433	Fenestration Protection	\$60,868
East Central Florida	Orange	Legacy MS 2 CR	2005	345	Fenestration Protection	\$47,481
East Central Florida	Orange	Legacy MS 6 CR	2005	466	Fenestration Protection	\$60,681
East Central Florida	Orange	Legacy MS 7 CR	2005	489	Fenestration Protection	\$60,921
East Central Florida	Orange	Legacy MS 8 CR	2005	430	Fenestration Protection	\$60,598
East Central Florida	Orange	Meadowbrook MS 8 CR	2005	470	Fenestration Protection	\$60,681
East Central Florida	Osceola	Chestnut ES 1 Cafeteria	2005	322	Fenestration Protection	\$104,650
East Central Florida	Osceola	Kenansville Community Center	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Holopaw Community Center	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Marydia Community Center	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Robert Guevara Community Center	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Buenaventura Lakes Library	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Hart Memorial Library	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Kenansville Library	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Poinciana Library	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	St. Cloud Library	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	West Osceola Library	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Westside K-8 School -1 main		2439	Fenestration Protection	\$975,600
East Central Florida	Osceola	Kissimmee Civic Center	TBD	100	Fenestration Protection	\$100,000
East Central Florida	Osceola	Osceola Heritage Park Event Center	TBD	100	Fenestration Protection	\$100,000

RPC	County	Site Name/Bldg ID	Year Built	Spaces Added	Project Description	SRR Project Estimate
East Central Florida	Seminole	Oviedo SHS 7 Gym	2007	799	Fenestration Protection	\$175,780
East Central Florida	Sumter	South Sumter SHS 38 CR	2002	352	Fenestration Protection	\$66,150
East Central Florida	Sumter	South Sumter MS	2000	332	Fenestration Protection	\$68,850
East Central Florida	Sumter	South Sumter MS 24 CR	1999	332	Fenestration Protection	\$68,850
East Central Florida	Sumter	Wildwood MS/HS 29 CR	1999	318	Fenestration Protection	\$68,850
East Central Florida	Sumter	Lake Panasoffkee ES 11 CR	1999	231	Fenestration Protection	\$72,900
East Central Florida	Volusia	Creekside MS 2 Cafeteria	2003	309	Fenestration Protection	\$119,583
East Central Florida	Volusia	Deland SHS 1 Aud	2003	639	Fenestration Protection	\$143,775
East Central Florida	Volusia	Deland HS 14 CR	2003	585	Fenestration Protection	\$131,625
East Central Florida	Volusia	Deland HS 15 CR	2003	592	Fenestration Protection	\$133,200
East Central Florida	Volusia	Mainland SHS 2B CR	2006	1,341	Fenestration Protection	\$301,725
East Central Florida	Volusia	Deland HS 5 Cafeteria	2003	391	Fenestration Protection	\$87,975
East Central Florida	Volusia	Southwestern MS 5A Gym	2006	385	Fenestration Protection	\$86,625
East Central Florida	Volusia	Deland HS 17 CR	1999	614	Fenestration Protection	\$138,150
East Central Florida	Volusia	Deland HS 2 Gym	1999	773	Fenestration Protection	\$173,925
East Central Florida	Volusia	Heritage MS CR	2003	353	Fenestration Protection	\$136,611
East Central Florida	Volusia	Mainland SHS 3 Gym	2006	244	Fenestration Protection	\$54,900
East Central Florida	Volusia	Daytona Beach CC-Deland 8 CR	2002	130	Fenestration Protection	\$29,250
East Central Florida	Volusia	Mainland SHS 5 CR	2006	129	Fenestration Protection	\$29,025
East Central Florida	Volusia	Pride ES b1	2007	903	Fenestration Protection	\$349,461
East Central Florida	Volusia	Pride ES	2007	445	Fenestration Protection	\$104,575
East Central Florida	Volusia	Mainland SHS 2A Cafeteria	2006	tbd	Fenestration Protection	\$173,400
East Central Florida	Volusia	Pine Ridge HS - bldg 3 ESE Classroom	1994	340	Fenestration Protection	\$186,048
East Central Florida	Volusia	Pine Ridge HS - bldg 4 Vocational	1994	160	Fenestration Protection	\$87,552
East Central Florida	Volusia	Pine Ridge HS - bldg 5 Classroom	1994	574	Fenestration Protection	\$314,093
East Central Florida	Volusia	Pine Ridge HS - bldg 6 Classroom	1994	267	Fenestration Protection	\$146,102
East Central Florida	Volusia	Pine Ridge HS - bldg 7 Classroom	1994	708	Fenestration Protection	\$387,418
East Central Florida	Volusia	Pine Ridge HS - bldg 9 Music	1994	102	Fenestration Protection	\$55,814
East Central Florida	Volusia	Pine Ridge HS - bldg 10 Auditorium	1994	15	Fenestration Protection	\$8,208
East Central Florida	Volusia	Atlantic HS - bldg 1 Admin/Dining	1992	212	Fenestration Protection	\$116,006
East Central Florida	Volusia	Atlantic HS - bldg 2 Vocational	1992	137	Fenestration Protection	\$74,966
East Central Florida	Volusia	Atlantic HS - bldg 4 Vocational	1992	168	Fenestration Protection	\$91,930
East Central Florida	Volusia	Atlantic HS - bldg 5 Classroom	1992	295	Fenestration Protection	\$161,424
East Central Florida	Volusia	Atlantic HS - bldg 6 Classroom	1992	164	Fenestration Protection	\$89,741
East Central Florida	Volusia	Atlantic HS - bldg 7 Classroom	1992	705	Fenestration Protection	\$385,776
East Central Florida	Volusia	Atlantic HS - bldg 8 Gym	1992	642	Fenestration Protection	\$351,302
East Central Florida	Volusia	Atlantic HS - bldg 9 Music	1992	96	Fenestration Protection	\$52,531
East Central Florida	Volusia	Atlantic HS - bldg 10 Auditorium	1992	26	Fenestration Protection	\$14,227
Central Florida						
Central Florida	DeSoto	DeSoto SHS 1C Cafeteria	1977/2010 2005	511	Fenestration Protection	\$114,750
Central Florida	DeSoto	DeSoto SHS 1F Gym	1977/2010 2005	511	Fenestration Protection	\$114,750
Central Florida	DeSoto	Nocatee ES 8 CR	2008	148	Fenestration Protection	\$33,300
Central Florida	DeSoto	West ES 8 CR	2008	148	Fenestration Protection	\$33,300
Central Florida	DeSoto	South Florida State College 3 CR	2003	41	Fenestration Protection	\$9,225
Central Florida	DeSoto	Nocatee ES 4 CR	1999	275	Fenestration Protection	\$61,875
Central Florida	DeSoto	DeSoto County Library	1997/2008	120	Fenestration Protection	\$100,000
Central Florida	DeSoto	Memorial ES 15 CR	1999	105	Fenestration Protection	\$23,625
Central Florida	Hardee	Zolfo ES 10 CR (3rd Grade)	2001	0	Engineering	\$20,000
Central Florida	Hardee	Wauchula ES 5 ESE CR	1998	111	Fenestration & MEP/Genset	\$54,900
Central Florida	Hardee	Wauchula ES 6 Media	1998	109	Fenestration & MEP/Genset	\$160,000
Central Florida	Highlands	MLK Jr Memorial Field Gym	2002	415	Engineering Study	\$15,000
Central Florida	Highlands	Reflections on Silver Lake Comm Center	2005	75	Fenestration Protection	\$16,875
Central Florida	Highlands	Avon Park ES CR3	2002	415	Fenestration Protection	\$230,000
Central Florida	Highlands	Avon Park ES CR5	2002	415	Fenestration Protection	\$230,000
Central Florida	Highlands	Avon Park Rec Center	2002	415	Fenestration Protection	\$230,000
Central Florida	Okeechobee	Osceola MS 7 Gym	1995	1160	Fenestration Protection	\$190,000
Central Florida	Polk	Mobile Home Activity Center Main	1999	133	Fenestration Protection	\$29,925
Central Florida	Polk	Frostproof Middle School 7,8,9	1998	300	Fenestration Protection	\$42,975
Central Florida	Polk	Fort Meade MS / HS 19 CR	1998	160	Fenestration Protection	\$36,000
Central Florida	Polk	McKeel Academy 14 Gym SPN	1999	200	Fenestration Protection	\$189,925
Central Florida	Polk	Fort Meade MS /HS 17A CR	1998	191	Fenestration Protection	\$42,975
Central Florida	Polk	Ridge Community SPN	1998	160	Electrical for SpN	\$236,000
Central Florida	Polk	Fort Meade MS / HS 17B CR	1998	115	Fenestration Protection	\$25,875
Central Florida	Polk	Lake Gibson MS 1761 / Bldg 05	1996	256	Fenestration Protection	\$140,083
Central Florida	Polk	Kathleen MS 1191 / Bldg 03 Class	2004	173	Fenestration Protection	\$94,666
Central Florida	Polk	Kathleen MS 1191 / Bldg 02 Cafeteria	1960/2003	80	Engineering Study	\$43,776
Central Florida	Polk	Kathleen MS 1191 / Bldg 07 Gym	1954/2003	261	Engineering Study	\$142,819
Central Florida	Polk	Socrum ES 1901 / Bldg 01	1990	72	Fenestration Protection	\$39,398
Central Florida	Polk	Socrum ES 1901 / Bldg 02	1990	112	Fenestration Protection	\$61,286
Central Florida	Polk	Socrum ES 1901 / Bldg 03	1990	104	Fenestration Protection	\$56,909
Central Florida	Polk	Socrum ES 1901 / Bldg 04	1990	172	Fenestration Protection	\$94,118
Central Florida	Polk	Socrum ES 1901 / Bldg 05	1990	94	Fenestration Protection	\$51,437
Central Florida	Polk	Socrum ES 1901 / Bldg 06	1990	139	Fenestration Protection	\$76,061
Central Florida	Polk	Socrum ES 1901 / Bldg 07	2007	105	Fenestration Protection	\$57,456
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 01	1990	69	Fenestration Protection	\$37,757
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 02	1990	116	Fenestration Protection	\$63,475
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 03	1990	104	Fenestration Protection	\$56,909
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 04	1990	178	Fenestration Protection	\$97,402
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 05	1990	87	Fenestration Protection	\$47,606
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 06	1990	134	Fenestration Protection	\$73,325

RPC	County	Site Name/Bldg ID	Year Built	Spaces Added	Project Description	SRR Project Estimate
Central Florida	Polk	Wendell H Watson ES 1881 / Bldg 09	2009	90	Fenestration Protection	\$49,248
Central Florida	Polk	Southwest ES 0231 / Bldg 06	1999	105	Fenestration Protection	\$57,456
Central Florida	Polk	Southwest MS 0051 / Bldg 20	1992	39	Fenestration Protection	\$21,341
Central Florida	Polk	Mulberry MS 1161 / Bldg 10	1994/2011	93	Fenestration Protection	\$50,890
Central Florida	Polk	Mulberry MS 1161 / Bldg 11 POD B	1998	80	Fenestration Protection	\$43,776
Central Florida	Polk	Mulberry MS 1161 / Bldg 12	1982/2011	50	Fenestration Protection	\$27,360
Central Florida	Polk	Mulberry MS 1161 / Bldg 13 POD A	1998	62	Fenestration Protection	\$33,926
Central Florida	Polk	Mulberry_MS_1161 / Bldg_16-A 1st Floor Admin, Clinic	2011	62	Fenestration Protection	\$33,926
Central Florida	Polk	Mulberry_MS_1161 / 16-B LRDM Media Classrooms 2nd-FLR	2011	67	Fenestration Protection	\$36,662
Central Florida	Polk	Mulberry MS 1161 / Bldg 18	2011	89	Fenestration Protection	\$48,701
Central Florida	Polk	Scott Lake ES 1681 / Bldg 02 POD A	1998	105	Fenestration Protection	\$57,456
Central Florida	Polk	Eagle Lake ES 1701 / Bldg 03 POD A type-Prefab	1999	67	Fenestration Protection and Engineering Study	\$36,662
Central Florida	Polk	Eagle Lake ES 1701 / Bldg 05	2007	164	Fenestration Protection	\$89,741
Central Florida	Polk	Eagle_Lake_ES_1701 / Bldg_06	1989	60	Fenestration Protection and Engineering Study	\$32,832
Tampa Bay						
Tampa Bay	Citrus	Central Ridge ES 1 East Wing/CR	2006	733	Fenestration Protection	\$115,768
Tampa Bay	Citrus	Crest School 2 Main	1999	621	Fenestration Protection	\$292,130
Tampa Bay	Citrus	Central Ridge ES 1 Main/Admin & Media	2006	125	Fenestration Protection	\$44,232
Tampa Bay	Hernando	Suncoast ES 8 CR	2010	552	Engineering & Fenestration	\$115,476
Tampa Bay	Hernando	Nature Coast Tech HS 2 CR	2001	261	Engineering & Fenestration	\$72,540
Tampa Bay	Hernando	Chocachatti ES 6 CR	2005	241	Engineering & Fenestration	\$33,113
Tampa Bay	Hernando	Hernando SHS 30 CR	2008	230	Engineering & Fenestration	\$113,250
Tampa Bay	Hernando	West Hernando MS 6 Cafeteria	1993	226	Engineering & Fenestration	\$43,200
Tampa Bay	Manatee	Gullett ES 1 CR/Clinic 2nd Floor	2007	934	Fenestration Protection	\$80,700
Tampa Bay	Manatee	Lee MS 1G CR	2000	391	Fenestration & genset	\$12,629
Tampa Bay	Pasco	Wiregrass Ranch SHS 7 Cafeteria	2006	350	Harden exterior doors	\$10,000
Tampa Bay	Pasco	Wesley Chapel SHS 7 Gym	1998	865	Fenestration Protection	\$194,625
Tampa Bay	Pasco	Wesley Chapel SHS 8 Aud	1998	3184	Fenestration Protection	\$716,400
Tampa Bay	Pasco	Connerton ES 1 Admin / Media	2010	125	Fenestration Protection	\$28,125
Tampa Bay	Pasco	Connerton ES 2 CR	2010	125	Fenestration Protection	\$28,125
Tampa Bay	Pasco	Double Branch ES 1 Admin	2007	125	Fenestration Protection	\$28,125
Tampa Bay	Pasco	Double Branch ES 3 Cafeteria/Multipurpose	2007	125	Fenestration Protection	\$28,125
Tampa Bay	Pasco	Double Branch ES 2 CR	2007	125	Fenestration Protection	\$28,125
Tampa Bay	Pasco	Double Branch ES 4 CR	2007	125	Fenestration Protection	\$28,125
Tampa Bay	Pasco	Wesley Chapel SHS 5 Cafeteria	1998	350	Harden exterior doors	\$10,000
Tampa Bay	Pasco	Cypress M/HS 1 - Admin	2017	294	Fenestration Protection	\$151,275
Tampa Bay	Pasco	Cypress M/HS2 - Gym	2017	679	Fenestration Protection	\$151,275
Tampa Bay	Pasco	Cypress M/HS5 - Cafeteria & Art and Music	2017	547	Fenestration Protection	\$151,275
Tampa Bay	Pasco	Longleaf ES 1-Library & Classrooms	2005	289	Fenestration Protection	\$150,375
Tampa Bay	Pasco	Longleaf ES 2- Admin & ESE	2005	119	Fenestration Protection	\$150,375
Tampa Bay	Pasco	Longleaf ES 3- Multipurpose Dining & Stage	2005	185	Fenestration Protection	\$150,375
Tampa Bay	Pasco	New River ES 1 - CR	2007	110	Fenestration Protection	\$150,525
Tampa Bay	Pasco	New River ES 2-Media Room & CR	2007	367	Fenestration Protection	\$150,525
Tampa Bay	Pasco	New River ES 3-Dining & Multipurpose	2007	184	Fenestration Protection	\$150,525
Tampa Bay	Pasco	Oakslead ES 1 -ESE CR	2006	295	Fenestration Protection	\$150,450
Tampa Bay	Pasco	Oakslead ES 2-Admin & Classrooms	2006	111	Fenestration Protection	\$150,450
Tampa Bay	Pasco	Oakslead ES 3 - Multipurpose	2006	184	Fenestration Protection	\$150,450
Tampa Bay	Pasco	Trinity Oaks ES 1 CR	2001	201	Fenestration Protection	\$150,075
Tampa Bay	Pasco	Trinity Oaks ES 2 Admin & art	2001	122	Fenestration Protection	\$150,075
Tampa Bay	Pasco	Trinity Oaks ES 3 CR	2001	197	Fenestration Protection	\$150,075
Tampa Bay	Pinellas	McMullen Boothe ES 4 CR	1996	455	Fenestration Protection	\$106,925
Tampa Bay	Pinellas	McMullen Boothe ES 45CR	1996	455	Fenestration Protection	\$106,925
Tampa Bay	Pinellas	Fairmount ES 6 CR	2001	476	Fenestration Protection	\$111,860
Tampa Bay	Pinellas	Palm Harbor Senior Center	1999	257	Fenestration Protection	\$89,260
Tampa Bay	Pinellas	UPARC Long Center	1988	420	Fenestration Protection	\$210,000
Southwest Florida						
Southwest Florida	Charlotte	Charlotte County Airport Baggage Claims	TBD	800	Fenestration Protection	\$180,000
Southwest Florida	Charlotte	Charlotte Preparatory School	TBD	250	Fenestration Protection and Genset	\$381,250
Southwest Florida	Glades	Glades County Health Dept 1 Main	2011	235	Fenestration Protection	\$52,875
Southwest Florida	Lee	Veteran's Park Academy 3 Caf	2003	2763	Genset Protection	\$265,000
Southwest Florida	Lee	Veteran's Park Academy 9 Cafeteria	2003	990	Fenestration Protection	\$222,750
Southwest Florida	Lee	East Lee County HS 1 Multipurpose / PE	2005	250	Fenestration Protection	\$58,240
Southwest Florida	Lee	East Lee County HS 1 Aud	2005	200	Fenestration Protection	\$44,000
Southwest Florida	Lee	East Lee County HS 1 CR	2005	200	Fenestration Protection	\$0
Southwest Florida	Lee	East Lee County HS 1 Cafeteria	2005	200	Fenestration Protection	\$44,000
Southwest Florida	Lee	Sunshine ES 5 CR	2006	212	Fenestration Protection	\$111,300
Southwest Florida	Lee	Varsity Lakes MS 2 Cafeteria / Art	2003	200	Fenestration Protection	\$105,000
Southwest Florida	Sarasota	State College of Florida - Lakewood Ranch	2011	450	Fenestration Protection	\$157,500
Southwest Florida	Sarasota	Woodland MS	2007	256	Fenestration Protection	\$57,600
Treasure Coast						
Treasure Coast	Indian River	Liberty Magnet 1 Main	2005	184	Fenestration Protection	\$40,800
Treasure Coast	Indian River	Treasure_Coast_ES_0341 / B-01_A Wing_0100	1990	42	Fenestration Protection	\$22,982
Treasure Coast	Indian River	Treasure_Coast_ES_0341 / B-01_B Wing_0200	1990	139	Fenestration Protection	\$76,061
Treasure Coast	Indian River	Treasure_Coast_ES_0341 / B-01_C Wing_0300	1990	10	Fenestration Protection	\$5,472

RPC	County	Site Name/Bldg ID	Year Built	Spaces Added	Project Description	SRR Project Estimate
Treasure Coast	Indian River	Treasure_Coast_ES_0341 / B-01_D Wing_0400	1990	192	Fenestration Protection	\$105,062
Treasure Coast	Indian River	Treasure Coast ES 0341 / B-05 Wing_0500	1990	12	Fenestration Protection	\$6,566
Treasure Coast	Indian River	Treasure Coast ES 0341 / B-06 Wing_0600	1990	203	Fenestration Protection	\$111,082
Treasure Coast	Indian River	Treasure Coast ES 0341 / B-07 Wing_0700	2009	187	Fenestration Protection	\$102,326
Treasure Coast	Indian River	Treasure Coast ES 0341 / B-08 Wing_0800	2009	41	Fenestration Protection	\$22,435
Treasure Coast	Martin	Indiantown MS 5 Cafeteria	2010	600	GenSet	\$80,000
Treasure Coast	Martin	Port Salerno ES 1 Main	2002	1,300	GenSet	\$160,000
Treasure Coast	Martin	Willoughby Learning Center	1998	600	GenSet	\$280,000
Treasure Coast	Martin	Warfield ES 8 Cafeteria	2006	231	Common Space Protection	\$51,975
Treasure Coast	Martin	Cassidy Rec Center	2003	150	Fenestration Protection	\$33,750
Treasure Coast	Palm Beach	Florida Atlantic University - Business	2004	500	Fenestration Protection	\$111,500
Treasure Coast	St. Lucie	Dannn McCarty MS 20 CR	2001	882	Fenestration Protection	\$230,000
South Florida						
South Florida	Broward	Floranada ES a	1999	900	Fenestration Protection	\$385,000
South Florida	Broward	Floranada ES b	1999	900	Fenestration Protection	\$385,000
South Florida	Miami-Dade	Marjory Stoneman Douglas ES 10 CR / Media	1990	324	Fenestration Protection	\$72,900
South Florida	Miami- Dade	Marjory Stoneman Douglas ES 3 CR	1990	171	Fenestration Protection	\$38,475
South Florida	Miami- Dade	Marjory Stoneman Douglas ES 1/2 Admin / CR	1990	51	Fenestration Protection	\$11,475
South Florida	Miami-Dade	Marjory Stoneman Douglas ES 7/8 ESE	1990	101	Fenestration Protection	\$22,725
South Florida	Miami-Dade	Marjory Stoneman Douglas ES 9 CR	1990	136	Fenestration Protection	\$30,600
South Florida	Miami- Dade	Marjory Stoneman Douglas ES 4 CR	1990	49	Fenestration Protection	\$11,025
South Florida	Miami-Dade	Marjory Stoneman Douglas ES 8 ESE	1990	28	Fenestration Protection	\$6,300

**APPENDIX B:
HURRICANE EVACUATION SHELTER DEFICIT REDUCTION PROGRESS**

RPC	County	2022 Maximum Shelter Demand In Spaces	2022 SESP Inventory spaces	Cumulative School EHPA Capacity	1995–8/2021 Retrofit & As-Is Spaces	Retrofit Shelter Capacity Under Contract	Is the County/Region in Deficit?
Emerald Coast	Bay	8,449	6,285	0	6,285	1,093	Yes
Emerald Coast	Escambia	10,976	35,296	1,215	34,081	0	No
Emerald Coast	Holmes	962	1,623	910	713	0	No
Emerald Coast	Okaloosa	7,389	142	0	142	0	Yes
Emerald Coast	Santa Rosa	6,904	1,069	0	1,069	0	Yes
Emerald Coast	Walton	3,916	195	0	195	0	Yes
Emerald Coast	Washington	1,312	172	172	0	0	Yes
Emerald Coast Subtotals		39,908	44,782	2,297	42,485	1,093	No
Apalachee	Calhoun	660	0	0	0	0	Yes
Apalachee	Franklin	487	0	0	0	0	Yes
Apalachee	Gadsden	2,296	3,808	1,443	2,365	0	No
Apalachee	Gulf	714	418	186	232	0	Yes
Apalachee	Jackson	1,454	2,865	2,264	601	0	No
Apalachee	Jefferson	903	2,197	689	1,508	0	No
Apalachee	Leon	7,757	20,936	1,223	19,713	0	No
Apalachee	Liberty	422	2,302	955	1,347	0	No
Apalachee	Wakulla	1,883	443	0	443	0	Yes
Apalachee Subtotals		16,576	32,969	6,760	26,209	0	No
North Central Florida	Alachua	9,304	13,675	2,536	11,139	100	No
North Central Florida	Bradford	1,160	2,174	0	2,174	0	No
North Central Florida	Columbia	3,763	6,244	4,419	1,825	0	No
North Central Florida	Dixie	1,271	6,212	0	6,212	0	No
North Central Florida	Gilchrist	873	3,013	0	3,013	0	No
North Central Florida	Hamilton	638	1,143	811	332	0	No
North Central Florida	Lafayette	418	387	0	387	0	Yes
North Central Florida	Levy	3,095	1,788	0	1,788	0	Yes
North Central Florida	Madison	999	2,894	0	2,894	0	No
North Central Florida	Suwannee	2,660	4,818	3,774	1,044	0	No
North Central Florida	Taylor	1,184	3,045	0	3,045	0	No
North Central Florida	Union	561	432	0	432	0	Yes
North Central Florida Subtotals		25,926	45,825	11,540	34,285	100	No
Northeast Florida	Baker	1,737	3,227	1,829	1,398	0	No
Northeast Florida	Clay	10,238	12,041	4,796	7,245	2,896	No
Northeast Florida	Duval	40,441	37,867	9,701	28,166	0	Yes
Northeast Florida	Flagler	5,683	13,071	909	12,162	0	No
Northeast Florida	Nassau	4,745	4,677	3,340	1,337	0	Yes
Northeast Florida	Putnam	4,003	3,820	80	3,740	0	Yes
Northeast Florida	St. Johns	11,328	22,850	4,136	18,714	0	No
Northeast Florida Subtotals		78,175	97,553	24,791	72,762	2,896	No
East Central Florida	Brevard	26,492	51,040	10,839	40,201	0	No
East Central Florida	Lake	18,474	24,404	19,575	4,829	6,908	No
East Central Florida	Marion	14,449	15,359	6,713	8,646	7,698	No
East Central Florida	Orange	32,863	30,037	24,168	5,869	5,650	Yes
East Central Florida	Osceola	8,797	36,728	8,420	28,308	0	No
East Central Florida	Seminole	12,447	25,074	2,554	22,520	1,914	No
East Central Florida	Sumter	6,876	1,987	0	1,987	0	Yes
East Central Florida	Volusia	28,710	20,130	5,812	14,318	0	Yes
East Central Florida Subtotals		149,108	204,759	78,081	126,678	22,170	No
Central Florida	DeSoto	2,925	2,860	0	2,860	733	Yes
Central Florida	Hardee	1,680	4,158	2,681	1,477	0	No
Central Florida	Highlands	8,477	7,907	4,152	3,755	0	Yes
Central Florida	Okeechobee	2,779	4,717	684	4,033	0	No
Central Florida	Polk	31,217	40,790	33,491	7,299	3,986	No
Central Florida Subtotals		47,078	60,432	41,008	19,424	4,719	No
Tampa Bay	Citrus	10,046	4,545	1,276	3,269	0	Yes
Tampa Bay	Hernando	9,783	4,406	2,628	1,778	0	Yes
Tampa Bay	Hillsborough	63,451	83,717	51,184	32,533	0	No
Tampa Bay	Manatee	20,378	19,584	8,814	10,770	0	Yes
Tampa Bay	Pasco	26,287	25,158	7,576	17,582	0	Yes
Tampa Bay	Pinellas	43,760	30,444	6,483	23,961	0	Yes
Tampa Bay Subtotals		173,705	167,854	77,961	89,893	0	Yes
Southwest Florida	Charlotte	10,671	0	0	0	0	Yes
Southwest Florida	Collier	25,423	4,953	0	4,953	0	Yes
Southwest Florida	Glades	1,099	2,228	303	1,925	0	No

RPC	County	2022 Maximum Shelter Demand In Spaces	2022 SESP Inventory spaces	Cumulative School EHPA Capacity	1995–8/2021 Retrofit & As-Is Spaces	Retrofit Shelter Capacity Under Contract	Is the County/Region in Deficit?
Southwest Florida	Hendry	2,725	3,830	0	3,830	0	No
Southwest Florida	Lee	36,576	18,195	0	18,195	0	Yes
Southwest Florida	Sarasota	25,578	13,915	4,721	9,194	7,262	Yes
Southwest Florida Subtotals		102,072	43,121	5,024	38,097	7,262	Yes
Treasure Coast	Indian River	4,984	14,558	0	14,558	0	No
Treasure Coast	Martin	6,516	15,079	3,791	11,288	0	No
Treasure Coast	Palm Beach	42,840	82,973	82,973	0	0	No
Treasure Coast	St. Lucie	9,566	17,515	0	17,515	0	No
Treasure Coast Subtotals		63,906	130,125	86,764	43,361	0	No
South Florida	Broward	23,687	69,898	69,898	0	0	No
South Florida	Miami-Dade	129,672	96,052	17,196	78,856	0	Yes
South Florida	Monroe	3,512	714	0	714	0	Yes
South Florida Subtotals		156,871	166,664	87,094	79,570	0	No