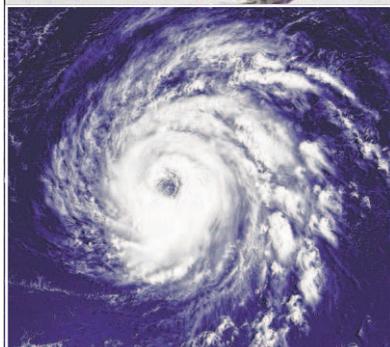


THE DAYTONA BEACH
NEWS-JOURNAL

[MAY 18, 2014]



NEWS-JOURNAL



VOLUSIA / FLAGLER DISASTER

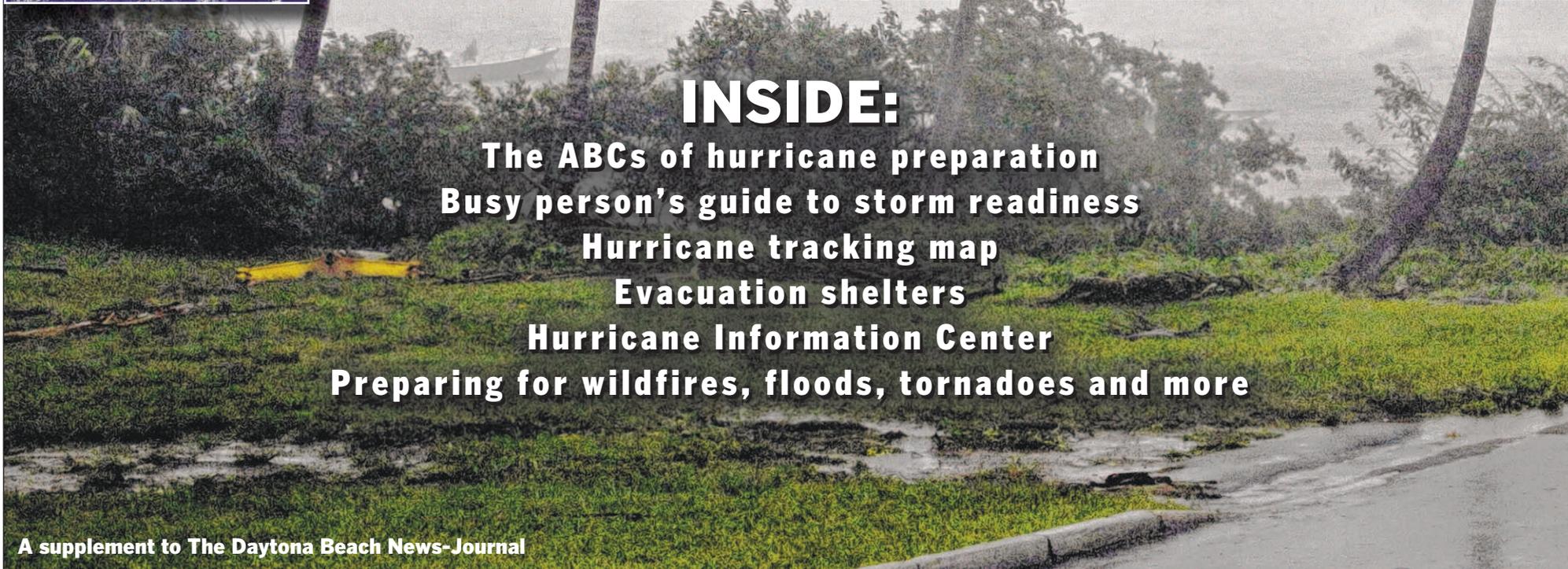
**PREPAREDNESS
GUIDE 2014**



INSIDE:

- The ABCs of hurricane preparation**
- Busy person's guide to storm readiness**
- Hurricane tracking map**
- Evacuation shelters**
- Hurricane Information Center**
- Preparing for wildfires, floods, tornadoes and more**

A supplement to The Daytona Beach News-Journal



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Readiness is bliss

The historic hurricane season a decade ago caught many residents of Volusia and Flagler counties off guard. After many years with relatively little impact from named storms, in 2004 the area was visited by three — Charley, Frances and Jeanne. Because the media loves anniversaries, there's bound to be a lot of looking back as the June 1 start of the Atlantic hurricane season approaches this year.

That's not what this special section is about. The Daytona Beach News-Journal's Volusia/Flagler Disaster Preparedness Guide 2014 looks ahead to this season, and all the things readers can do to get their homes and families ready for tropical storms, hurricanes, or any other challenges Mother Nature might throw our way. With the confidence that comes with knowing you're prepared, you'll be free to enjoy a blissful summer.



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BE PREPARED FOR ...

... Severe thunderstorms and lightning **20**
 ... Tornadoes **21**
 ... Wildfires **22**
 ... Flooding **23**

0002070313



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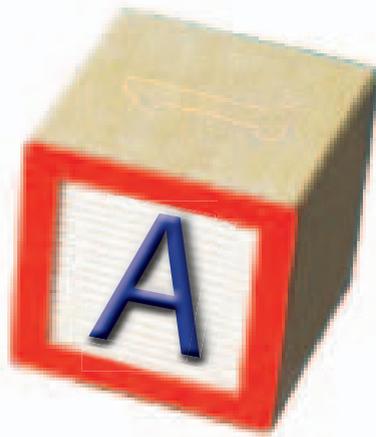
* Flood Insurance is provided by Auto Club South Insurance Company and is written through the National Flood Insurance Program. Source: Floodsmart.gov. According to the NFIP, your home has a 26% chance of being damaged by a flood compared with a 9% chance of being damaged by a fire. Percentage based on a 30-year mortgage period.

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BR80-0006A

The ABCs of hurricane preparation

Here's an alphabetical reminder of some matters that deserve your attention, either right away or when a storm may be on the way:



■ ANIMALS

Be sure to consider pets and livestock in storm season planning and preparations. Detailed advice from Volusia Animal Preparation can be found at tinyurl.com/DBNJ-pet-planning.



■ EVACUATION

Whether to stay or go is perhaps the most important decision one must make when a big storm brews. For Volusia and Flagler counties' emergency managers' official guidance on the matter, see page 17. For the state's fun approach to step-by-step instructions for both options, go to tinyurl.com/DBNJ-evacuation.



■ INSURANCE

Review your coverage before hurricane season starts to make sure your insurance — including windstorm and flood policies — meets your current needs. Experts also recommend keeping an inventory of your home's contents. Home inventory software may be downloaded at knowyourstuff.org.

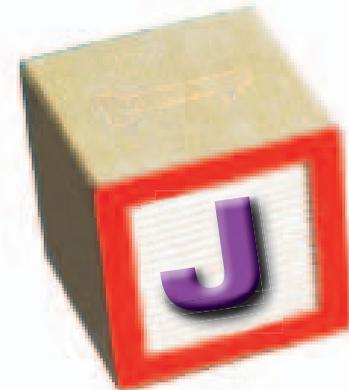
■ BOATS

Whether in the water or on a trailer, boats should be properly secured when a storm's on the way to reduce chances of either sustaining damage or causing harm. Learn more at tinyurl.com/DBNJ-boats.



■ FOOD

Have on hand enough meals and snacks that need neither refrigeration or cooking to last you and yours for three to seven days, and take it with you if you evacuate. For ideas on what to buy, go to tinyurl.com/DBNJ-food.



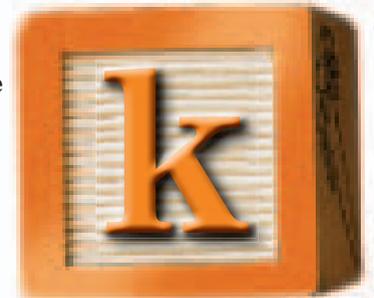
■ JOURNALISTS

Emergency managers recommend turning to local media outlets for the latest information on storm watches and warnings, evacuation orders, shelter openings and such. The News-Journal will deliver such information at news-journalonline.com.



■ KIT

A disaster supplies kit is simply a collection of items your household may need in the event of an emergency, whether you stay put or evacuate. In addition to food and water, it should contain hygiene and comfort supplies you'd need to manage without electricity or other basic services. For a suggested checklist, see page 9.



■ CELLPHONES

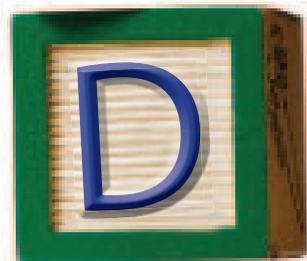
Ensure cellphones are fully charged and emergency contact numbers are pre-programmed. Have a back-up plan for recharging, such as a car charger. Don't talk when you can text. To prepare to use your cellphones and other mobile devices effectively, safely and considerately in a disaster situation, go to ready.gov/get-tech-ready.

■ GASOLINE

Fill up your vehicles before a storm and make sure you have plenty of gasoline to power your back-up generator, if you have one. For tips on safely storing gasoline and using generators, go to tinyurl.com/DBNJ-gasoline.

■ DISASTER PLANNING

Though we have hurricane season on our minds as its June 1 start approaches, the Federal Emergency Management Agency advocates an all-hazards approach to disaster preparedness: be informed; make a plan; build a kit; get involved. Go to ready.gov for details.



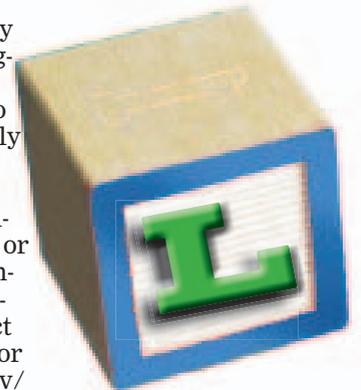
■ HARDENING

That's the latest term for improvements intended to keep wind and water out of homes and other buildings — storm shutters, hurricane doors, roof straps and the like. To learn about what you can do in time for hurricane season, go to tinyurl.com/DBNJ-harden.



■ LOVED ONES

The Federal Emergency Management Agency suggests selecting an out-of-town relative or friend to be kept informed of family members' whereabouts and well-being. If family members affected by a disaster become separated or lose touch with other concerned loved ones, everybody will know to contact the designated person. For more tips, go to ready.gov/family-communications.



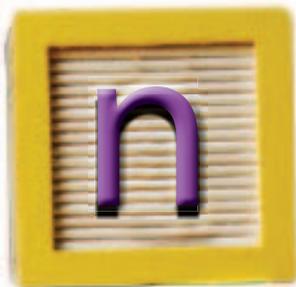


■ **MOBILE HOMES**

All mobile homes should be anchored to resist hurricane-force winds. (Go to tinyurl.com/DBNJ-mobilehomes for details.) Nonetheless, when such winds are expected, no one should stay in a mobile home. Emergency managers say residents of mobile homes everywhere in Volusia and Flagler counties should plan for the possibility they will be ordered to evacuate.

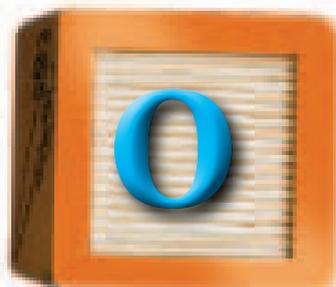
■ **NEIGHBORS**

Check now with neighbors, especially older adults and people with disabilities or health conditions, to see who may need help to prepare and evacuate in case of a hurricane threat. Createthegood.org/toolkit/operation-hurricane-prepare has other suggestions on being neighborly this storm season.



■ **OUTDOOR FURNISHINGS**

When a storm is on the way, bring patio furniture, grills, lawn ornaments, potted plants, etc., inside for storage. For more advice on getting your surroundings ready for a hurricane, go to tinyurl.com/DBNJ-outdoors.



■ **POOLS**

Never completely drain your swimming pool. You do not need to lower the water level in the pool when a storm is approaching, but if you decide to, be sure to close your skimmer valve to prevent damage to the pump when the power is turned on. For other tips from the University of Florida, go to tinyurl.com/DBNJ-pools.



■ **QUESTIONS**

Add these numbers to your phone list so you'll have them if you have urgent questions during a disaster situation: Volusia County Citizens Information Center, 866-345-0345; Flagler County Emergency Information Line, 386-586-5111. Use 9-1-1 only for true emergencies.



■ **ROOFS**

Before hurricane season, roofs should be inspected for loose or damaged shingles and other weaknesses. Find a roof inspection checklist at tinyurl.com/DBNJ-roofs.



■ **VOLUNTEERS**

Well-trained volunteers are essential for local hurricane preparation and response. To learn about opportunities, go to tinyurl.com/DBNJ-volusia-volunteers or tinyurl.com/DBNJ-flagler-volunteers.

■ **SHELTERS**

Volusia and Flagler counties are prepared to open public shelters as needed for hurricanes or other emergencies that require evacuations. Complete lists of potential shelters are on pages 18-19. While public shelters are ideal for people with no other place to go, officials encourage planning to stay with friends or relatives or in hotels.



■ **WATER**

A rule of thumb is to stockpile 1 gallon per person per day for three to seven days or more in anticipation of an impending storm. For more information, go to ready.gov/water.



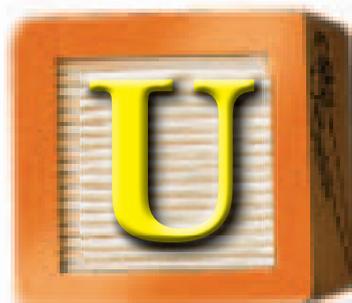
■ **TREES**

Experts advise hiring a professional in advance of storm season to trim off weak branches, remove branches that are positioned over structures and trim away any limbs close to utility lines. If a storm approaches, trees should not be trimmed unless there is adequate time for all debris to be removed.



■ **X, THE UNKNOWN VARIABLE**

Though experts make predictions each year, the number of named storms to be expected this year still equals X. But all it takes is one. Don't worry. Be ready.



■ **UNPLUGGED**

That's what you'll be if you lose power, so plan for entertaining activities to pass the time. Some ideas can be found at tinyurl.com/DBNJ-games.



■ **YOUNGSTERS**

Children feel safer if they know what they are supposed to do during a hurricane. It helps them to know that their families have a plan to keep them safe. Go to tinyurl.com/DBNJ-youngsters to learn more.

■ **ZERO**

That's the number of windows that should be taped up when a storm threatens. It does nothing to keep them intact, and may result in larger, potentially deadly shards of glass. For details, go to greathurricaneblowout.org/protect_tapeless.php.



Too busy?

Experts suggest tackling readiness tasks one at a time

By **TAYLOR ASHLEY**
Correspondent

With today's busy schedules, taking the time for disaster preparedness can be daunting.

Volusia County Emergency Management Director Jim Judge advises that spreading out preparedness can go a long way, and that staying informed on weather conditions and having a family plan are all important to consider.

"I tell people that they can take \$15 to \$25 from each paycheck and start buying the necessary supplies well in advance because waiting until days before a storm watch is given means long lines at the stores and a shortage of supplies," Judge said.

Flagler County Public Safety Emergency Manager Kevin Guthrie advises that residents sign up for Code Red, a community notification system on the

county website, flagleremergency.com. He also promotes the Federal Emergency Management Agency's readiness program, by not just being three days' prepared but rather keeping a five-day supply on hand.

"(Waiting until) one day (out) is realistically too late, and not the way to go," Guthrie said. Additionally, because of the county's large retiree population, voluntary evacuation can be an option for them to go to family and friends' homes three days in advance.

According to the Federal Alliance for Safe Homes, FLASH.org, one hour, one day or one weekend can help homeowners prepare for a hurricane with DIY activities. For instance, in one hour a checklist of items to bring in from the patio and yard can be made. In one day a home insurance inventory with descriptions and photographs of

household items can be made. In one weekend plywood shutters can be cut to order and fitted for easy installation.

FLASH suggests a neighborhood block party can be held to determine flying item risks such as garden ornaments and tools, and is also a good way to check on neighbors who might need assistance getting their homes ready.

Dave Cohen, owner of Batteries Plus Bulbs in Daytona Beach and Port Orange, suggests putting shopping for back-up power supplies — such as LED batteries that will last longer in flashlights and extra computer batteries — high on the to-do list.

"In the event of a power outage you can power your cellphone, laptop and tablet for several full charges with a portable power unit," Cohen said.

For Joani Jones, Port Orange, pre-registering with a

special-needs shelter for her 31-year-old daughter is part of the preparation.

"We fill out paperwork every year and make sure medication, emergency info and all important documents are ready to go as well as portable oxygen," Jones said.

With three dogs, Kathy Blackman from Sophie's Circle, a free pet food pantry, has a disaster plan in place as well as an SUV that can fit the food, water, bowls and other supplies she has ready in the garage.

"We could load up the car in a heartbeat and I have every motel/hotel headed north as far as Georgia that is pet-friendly — that way, we can drive as far as we need to and not have to worry about where to take the dogs," Blackman said. "Pretty simple; hopefully we will never have to put the plan to the test."



"I tell people that they can take \$15 to \$25 from each paycheck and start buying the necessary supplies well in advance because waiting until days before a storm watch is given means long lines at the stores and a shortage of supplies."

— Volusia County
Emergency Management
Director Jim Judge

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The days and hours leading up to a possible hurricane strike are no time to be at the store buying necessities or scrambling to find important documents. Whether you hit the road or stay home during a storm threat, emergency management officials say you should have with you everything you'll need to be self-sufficient for three, five or even seven days or more, possibly without basic utilities such as electricity and safe running water. Opinions vary on what specific supplies that means, but here are some common recommendations.

BASICS

- Water (one gallon per person per day for three to seven days)
- Food (nonperishable and ready-to-eat meals and snacks, enough for three to seven days)
- Manual can opener
- Battery-powered or hand-crank AM/FM radio and NOAA weather radio with tone alert and extra batteries for both
- Flashlight and extra batteries
- First aid kit
- Whistle
- Moist towelettes, paper towels, toilet paper
- Hand sanitizer
- Garbage bags and plastic ties

ADDITIONAL ITEMS

- Prescription medications and glasses
- Infant formula and diapers
- Pet food and extra water for pets
- Important family documents such as copies of insurance policies, identification and bank account records in a waterproof, portable container
- Cash or traveler's checks and change
- Emergency reference materials such as a first-aid book
- Household chlorine bleach and medicine dropper (when diluted nine parts water to one part bleach, bleach can be used as a disinfectant for cleaning. Or in an emergency, you can use it to treat water by using 16 drops of regular household liquid bleach per gallon of water.)
- Fire extinguisher
- Matches in a waterproof container
- Feminine supplies and personal hygiene items
- Mess kits, paper cups, plates and plastic utensils
- Paper and pencil/pen
- Books, games, puzzles or other activities for children
- Battery-powered fans
- Sunscreen
- Mosquito repellent
- Tools
- Grill or portable stove and charcoal or propane for outdoor cooking in case power is out after the storm

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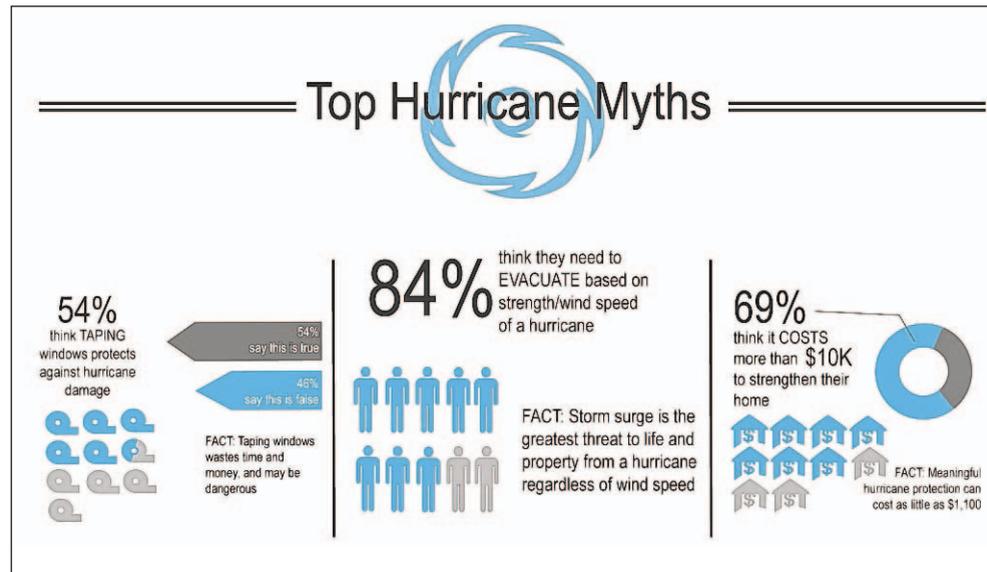
Poll: Americans fear high winds, but don't appreciate dangers of storm surge

Special to The News-Journal

A national Harris Interactive Survey commissioned by the Federal Alliance for Safe Homes has identified what the nonprofit organization described as "frightening" perceptions regarding hurricane evacuation. The survey found that a vast majority of Americans, 84 percent, mistakenly base their life-or-death evacuation decisions on the hurricane category and/or wind speed. In fact, hurricane evacuation boundaries are based on the threat of water, not wind, and nearly all evacuation orders are issued due to threat of inland flooding and storm surge.

At the National Hurricane Conference in April, the alliance, known as FLASH, launched a campaign called bustamyth, an initiative to overcome Americans' confusion regarding when to evacuate in a tropical storm or hurricane and to dispel other hurricane myths.

"Most people think of wind with a hurricane, but in recent years, water



from storm surge and inland flooding has done the most damage and killed the most people," said Rick Knabb, director

of the National Hurricane Center. "Families need to find out if they live in an evacuation zone today, have a plan in

place and immediately follow evacuation orders when issued."

Tropical storms, Category 1 and 2 hurricanes, post-tropical cyclones and even Nor'easters can all cause life-threatening storm surge. In 2008, Hurricane Ike made landfall as a Category 2 hurricane, bringing storm surge of 15 to 20 feet above normal tide levels. In 2012, Tropical Storm Debby produced storm surge of 7 feet in the Florida Panhandle. Often, heavy rains from hurricanes and tropical storms cause flooding well inland from the initial strike zone.

"People underestimate the force and power of water," said FLASH President and CEO Leslie Chapman-Henderson. "During Superstorm Sandy, the Sochacki family of Union Beach, N.J., lost their home when it was broken apart and swept out to sea. In the middle of the storm, they were forced to take shelter

SEE **SURGE**, PAGE 15G

0002070111



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Hurricane Information Center

Here's a refresher on the basics and terminology of tropical weather, as well as a list of resources to help Volusia and Flagler counties' residents.

GLOSSARY

- Tropical wave or disturbance** — Area of thunderstorms moving in the tropics with wind speeds of less than 39 mph and no organized circulation
- Tropical depression** — Area of low pressure with an organized circulation and wind speeds of less than 39 mph
- Tropical storm** — Organized, named storm with defined circulation and winds from 39-74 mph
- Hurricane** — Named tropical storm with surface winds of 74 mph or more
- Storm surge** — The rise of the sea level, and associated coastal flooding, when a hurricane or other intense storm is nearby
- Warning** — Issued by the National Weather Service for a hurricane or tropical storm when associated sustained winds and weather is expected in an area within 24 hours
- Watch** — Issued by the National Weather Service for a hurricane or tropical storm when associated conditions are expected in an area within 36 hours

RESOURCES

Official Disaster Preparedness Information

These include county-specific informa-

tion on shelters and likely evacuation zones.

Volusia County — volusia.org/emergency

Flagler County — flagleremergency.com

Emergency Management Offices

County-specific general information online or during regular office hours.

•**Volusia County** — volusia.org/emergency; 386-258-4088, 386-736-5980 or 386-423-3395

•**Flagler County** — flagleremergency.com, 386-313-4200

Emergency Management Hot Lines

Answered live around-the-clock during disaster events to help residents with specific concerns without tying up police, fire and emergency medical lines.

•**Volusia County Citizens Information Center** — 866-345-0345

•**Volusia County telecommunications device for the deaf** — 386-248-1792

•**Flagler County Emergency Information Line** — 386-586-5111

State and National Resources

•**National Hurricane Center** — nhc.noaa.gov

•**Florida Department of Emergency Management** — floridadisaster.org

•**Federal Emergency Management Agency (preparedness)** — ready.gov

•**Federal Emergency Management Agency (assistance)** — disasterassistance.gov or 800-621-3362

How to register for help

Volusia and Flagler counties have programs to assist elderly, physically or mentally disabled, visually or hearing-impaired residents or others with hindered ability to evacuate or care for themselves in a shelter.

Officials in both counties emphasize these programs work best if those who need help register in advance.

•**Volusia County residents** may download a Special Needs Shelter registration form at tinyurl.com/volusia-specialneeds, which links directly to the correct page of the volusia.org/

emergency website. If you prefer to have the form mailed you may request one by contacting: Volusia County Emergency Management, Attn: Special Needs, 49 Keyton Drive, Daytona Beach, FL 32124, 386-258-4088.

•**Flagler County residents** may download a People with Special Needs form by going to flagleremergency.com and clicking on People with Special Needs under IMPORTANT INFORMATION. You also may call 386-313-4200 or write to People with Special Needs, 1769 E. Moody Blvd. No. 3, Bunnell, FL 32110.

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The Atlantic hurricane season runs from June 1 through Nov. 30

TRACKING THE STORMS

You can use this map to chart the paths of all Atlantic tropical storms and hurricanes that approach the United States this season. When a hurricane threatens, weather reports will mention its latest position in latitude (the numbers on the vertical scale at right) and longitude (the scale across the top and bottom). Mark a point each time a new position is announced, then connect the points to follow the storm track. Try using a different color for each named storm for an ongoing record of 2014 storm activity.

Saffir-Simpson Scale

Category 1

Wind: 74-95 mph
Pressure: greater than 28.94 inches
Surge: 4-5 feet

Category 2

Wind: 96-110 mph
Pressure: 28.50-28.93 inches
Surge: 6-8 feet

Category 3

Wind: 111-130 mph
Pressure: 27.91-28.49 inches
Surge: 9-12 feet

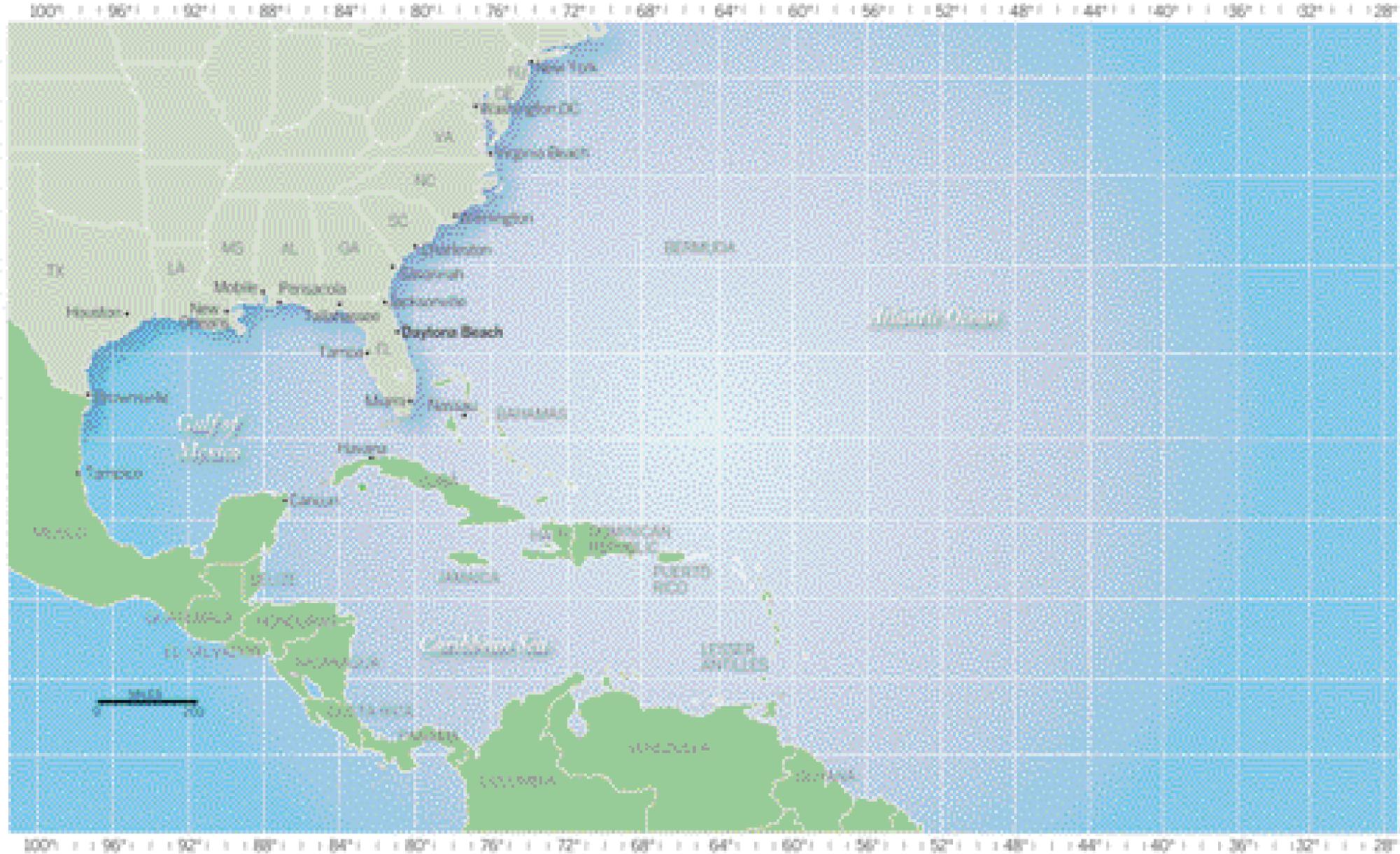
Category 4

Wind: 131-155 mph
Pressure: 27.17-27.90 inches
Surge: 13-18 feet

Category 5

Wind: greater than 155 mph
Pressure: less than 27.16 inches
Surge: greater than 18 feet

Source: National Hurricane Center



2014 Storm Names

(with pronunciation guide)

- Arthur (AR-thur)
- Bertha (BUR-thuh)
- Cristobal (krees-TOH-bahl)
- Dolly (DAH-lee)
- Edouard (eh-DWARD)
- Fay (fay)
- Gonzalo (gohn-SAH-loh)
- Hanna (HAN-uh)
- Isaias (ees-ah-EE-ahs)
- Josephine (JOH-seh-feen)
- Kyle (KY-ull)
- Laura (LOOR-ruh)
- Marco (MAR-koe)
- Nana (NA-na)
- Omar (OH-mar)
- Paulette (pawl-LET)
- Rene (re-NAY)
- Sally (SAL-ee)
- Teddy (TEHD-ee)
- Vicky (VIH-kee)
- Wilfred (WILL-fred)

Window Protection 101

Keeping wind and water out is critical for your home's survival in a hurricane. According to the Insurance Institute for Business and Home Safety, protective barriers over windows and doors help save your roof by preventing wind pressure from building up inside your home, reduce the chance of breaking glass and block wind-driven rain from soaking the home's interior.

If you wait until a storm is predicted to strike, your protection options may be limited. Here's a quick rundown of choices, prices, pros and cons compiled with information from the institute, legendslifestyle.com, which provided the photos, and other sources. All price ranges include professional installation.

ACCORDION SHUTTERS

Price: \$12 to \$28 per square foot.

Description: Folding shutters that move horizontally to both sides of the opening when not deployed.

Made from: Aluminum.

Pros: Easy operation from inside or outside; strong; can be locked for security.

Cons: Ugly and bulky when open; needs yearly cleaning and lubrication.



ACCORDION SHUTTERS



ROLLING SHUTTERS

ROLLING SHUTTERS

Price: \$16 to \$50 per square foot, plus \$200-\$500 per opening if motorized.

Description: Slatted shutters that roll down for deployment and roll up into a permanently mounted box or built-in space for storage when not deployed.

Made from: Aluminum, aluminum filled with high-density foam or PVC.

Pros: Very easy and convenient, motorization available; can be operated from inside or outside; ideal for hard-to-reach areas; motorized shutters can be automated with timers.

Cons: Expensive, box can be unsightly if not built in.

COLONIAL SHUTTERS

Price: \$12 to \$50 per square foot.

Description: Hinged swinging shutters that fold back to the sides of the window.

Made from: Aluminum, aluminum-reinforced PVC

or fiberglass.

Pros: Side-hinged and easy to use; strong and attractive — enhances beauty of your home.

Cons: Can only be opened and closed from the outside.

BAHAMA AWNING SHUTTERS

Price: \$12 to \$50 per square foot.

Description: Louvered shutters permanently mounted and held open at an angle with telescoping arms when not deployed.

Made from: Aluminum.

Pros: Easy to open and close from outside, some can be made with special inside closure; strong and attractive; provides shade, security.

Cons: Most Bahama shutters cannot be opened and closed from inside; obscures view permanently; louvered design can allow water penetration.

STORM PANELS

Price: \$7 to \$18 per square foot for metal, \$12 to \$20 per square foot for clear.



COLONIAL SHUTTERS

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0002070022



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Description: Sturdy removable panels anchored during deployment to permanently mounted tracks.

Made from: Steel, aluminum or clear polycarbonate.

Pros: Strong and inexpensive; clear panels allow light and visibility through window; some systems allow clear and metal to be mixed for economy with light.

Cons: Time consuming to put up and remove; panels must be stored and can get lost; metal panels have sharp edges; steel panels are very heavy, aluminum are lighter but still heavy.

HURRICANE SCREENS

Price: \$6 to \$20 per square foot

Description: Flexible screen attached with straps and buckles to permanently attached anchors.

Made from: Lightweight geo-synthetic fabric with properties similar to Kevlar.

Pros: Simple to install, no heavy lifting; economical; allows light and visibility; folds easily for storage in included bag.

Cons: Protects structure, but windows can break if struck with wind-borne missile; impractical for small windows.

IMPACT-RESISTANT GLASS

Price: \$28 to \$150 per square foot.

Description: Doors and window frames fitted with reinforced glass.

Made from: Layered glass with laminate between panes.

Pros: Attractive, permanent, adds security.

Cons: Expensive, can dent.



HURRICANE SCREENS

SURGE FROM PAGE 10G

in an elevated, concrete home next door.”

In attempt to more clearly warn people of that threat, beginning this hurricane season, the National Hurricane Center will issue an experimental Potential Storm Surge Flooding Map for areas along the Gulf and Atlantic coasts of the United States that are at risk of storm surge from a tropical cyclone. These real-time maps will show areas where storm surge could occur and how high above ground the water could reach in those areas. The interactive map will be available at hurricanes.gov when hurricane or, in some cases, tropical storm, watches or warnings are in effect.

OTHER CAUSES FOR CONCERN

The annual Harris Interactive survey commissioned by FLASH tests homeowners' hurricane beliefs regarding safety and property protection. In addition to Americans' unestimating of storm surge threats, officials from the nonprofit group also were disturbed by findings regarding perceptions of the cost of hurricane preparation measures the practice of taping windows during hurricane threats.

The survey found 69 percent of Americans believe it costs more than \$10,000 to make a home stronger against hurricanes. In response, FLASH suggested the following affordable methods and products that could minimize damage:

- Garage doors, often the most vulnerable opening on a home in a hurricane, can be braced for as little as \$150;
- Windows and sliding glass doors can be protected from flying debris with temporary plywood shutters for \$275 to \$750 or with corrugated steel or aluminum shutters from \$7 to \$15 per foot;
- Water intrusion through the roof deck joints is a common source of damage; however, peel and stick water barrier can be applied during re-roofing for as little as \$750.

The survey found 54 percent of Americans believe taping windows helps prevent hurricane damage. According to FLASH, however, taping windows wastes preparation time, does not stop windows from breaking in a hurricane, and does not make clean-up easier. In fact, taping windows may create larger shards of glass that could cause serious injuries. Masking tape, duct tape, window film and specially marketed "hurricane tape" are insufficient and potentially dangerous.

FLASH recommended using tested and approved hurricane shutters or other opening protection instead.

0002070626

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AN EMERGENCY POWER PRIMER

How much does it cost to ensure emergency power in the aftermath of a storm? It depends on how much juice you want and how easily you want it to start up. Here's an overview of available options.

RECREATIONAL GENERATORS

WATTAGE: 1,000 to 3,000 watts.
FUEL: Gasoline (tank sizes less than 1 gallon to 4 gallons).
CONNECTION: Extension cords to individual appliances.
WILL POWER: A few appliances, such as a small refrigerator and/or table fan.
PRICE: \$399 to \$4,000.

MEDIUM PORTABLE GENERATORS

WATTAGE: 3,000 to 5,000 watts.
FUEL: Gasoline (3- to 4-gallon tank).
CONNECTION: Extension cords to individual appliances.
WILL POWER: Multiple appliances simultaneously, such as a full-size refrigerator and sump pump.
STARTING: Mostly pull cord, some have manual electric start.
PRICE: \$400 to \$3,000.

LARGE PORTABLE GENERATORS

WATTAGE: 6,000-9,000 watts.
FUEL: Gasoline (5- to 8-gallon tank).
CONNECTION: Extension cords to individual appliances or a professionally installed manual transfer switch to up to 10 circuits on main electrical panel.
WILL POWER: Multiple appliances simultaneously, or multiple rooms of home (minus central AC) if connected to main electric panel.
STARTING: Some pull cord, many have manual electric start.
PRICE: \$799-\$1,299.

EXTRA LARGE PORTABLE GENERATORS

WATTAGE: 10,000-plus watts.
FUEL: Gasoline (8- to 16-gallon tank).
CONNECTION: Professionally installed manual transfer switch to main electrical panel.
WILL POWER: Most appliances, including central air.
STARTING: Manual electric start.
PRICE: \$2,000 to \$4,000.

ESSENTIAL CIRCUIT STANDBY GENERATORS

WATTAGE: 8 to 17 kilowatts.
FUEL: Natural or LP gas.
CONNECTION: Professionally installed with automatic switch.
WILL POWER: 8 to 16 circuits of main electrical panel, including all essential appliances and central air.
PRICE: \$1,500 to \$5,000.

SMART CIRCUIT STANDBY GENERATORS

WATTAGE: 10-20 kilowatts.
FUEL: Natural or LP gas.
CONNECTION: Professionally installed with automatic switch.
WILL POWER: Entire electrical panel, alternating among circuits as necessary to stay within wattage.
PRICE: \$2,000 to \$6,000.

WHOLE HOUSE STANDBY GENERATORS

WATTAGE: 22-60 kilowatts.
FUEL: Natural or LP gas.
CONNECTION: Professionally installed with automatic switch.
WILL POWER: Whole house at once.
PRICE: \$8,000 to \$18,000-plus.

SOURCE: electricgeneratorsdirect.com

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News-Journal file

Traffic backs up on State Road 40 in Ormond Beach, west of Interstate 95. The traffic was backed up on this evacuation route all the way to State Road 17, near the Lake County line, as Volusia County residents evacuated to get out of the way of Hurricane Floyd in 1999.

0002070504

Should you evacuate?

There's a hurricane or potential hurricane out there and you live in its predicted path — should you stay or go? Emergency management officials say this decision should be effortless if a mandatory evacuation order is issued for you: go. Otherwise, they say, some people are better off staying put, depending on various factors. Below is the official advice for residents of Volusia and Flagler counties, adapted from the counties' disaster preparedness Web pages.

VOLUSIA COUNTY

Yes, you should evacuate, if you:

- Live in a storm surge zone. Check the county's evacuation route maps on volusia.org/emergency (tinyurl.com/volusia-map links directly to the map) or call 386-258-4088, 386-736-5980 or 386-423-3395 to find out.
- Live in a low-lying or flood-prone area.
- Live in a mobile home or recreational vehicle.
- Require a respirator or other electric-dependent medical equipment.

No, if you:

- Live in a sound structure and the categories listed under "yes" do not apply.

FLAGLER COUNTY

People who do not live in the storm surge area and who live in a well-constructed home built after 2000 should consider staying. If you want to know if you live in an area that might be affected by storm surge, call the Flagler County Emergency Operations Center at 386-313-4200 or send an email to info@FlaglerEmergency.com. In general, anyone living east of Interstate 95 or in a mobile or manufactured home anywhere in the county should plan for the possibility that they will be in a mandatory evacuation zone.



Other factors for consideration noted by emergency management officials in the two counties include:

- Persons who fail to evacuate when ordered to do so are in violation of the law and may face extended periods of time when help will not be available due to isolation.
- Bridges will be closed to traffic when sustained winds reach unsafe levels.

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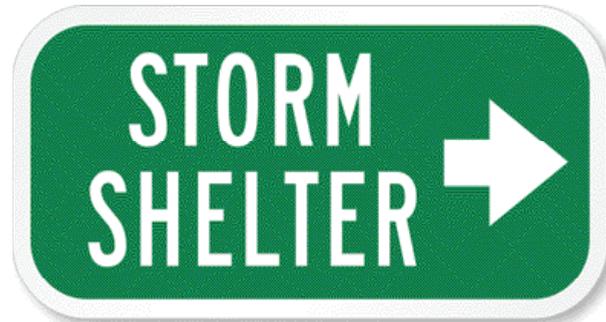
Volusia County shelters

Not all shelters open for all emergencies. Shelter openings will be announced in the local media. The Volusia County School Board and Votran will provide free rides to general public shelters. Pick up will be made at all regular Votran bus stops.

Directions to shelters may be obtained by calling the Volusia County School Board at 386-734-7190, 386-258-4677 or 386-424-0053, ext. 20000.

The following abbreviations are used in this listing to help you decide which shelters would best meet your needs:

•FSNS, Functional/Special Needs Shelter — Assists evacuees with disabilities or functional medical needs. These shelters are pet-friendly, with evacuees' pets housed in a different location. Evacuees and their service animals will remain in the same location. Bring the necessary supplies for you and your pet. If you have a caregiver, please ensure they accompany and remain with you at the shelter through the entire duration. These shelters cannot accommodate an individual requiring 24-hour dedicated care, a hospital bed or ventilator, needing other complex care or who is an isolation patient. The six Functional/Special Needs Shelters are Palm Terrace Elementary School in Daytona Beach, Atlantic High and Creekside Middle schools in Port Orange, Freedom Elementary School in DeLand and Galaxy and Heritage middle schools in



Deltona. (See the geographical listing at right for addresses.)

- PF, pet-friendly:** People and pets are housed in separate locations at the shelter.
- PPS, people and pet shelter:** The Volusia County Fairgrounds is the only shelter in the county in which people and their pets are housed together.
- SIP, shelter information point:** Evacuees using shelters in the Deltona area first should travel to the shelter information points at Deltona or Pine Ridge high school to receive detailed directions to the nearest open shelter. Easy access to the shelter information points is available from Maytown Road, State Road 44, Interstate 4 and County Road 415.

East Volusia

- Atlantic High School (FSNS & PF), 1250 Reed Canal Road, Port Orange
- Campbell Middle School, 625 S. Keech St., Daytona Beach
- Champion Elementary School, 921 Tournament Drive, Daytona Beach
- Creekside Middle School, (FSNS & PF), 6801 Airport Road, Port Orange
- Cypress Creek Elementary School, 6100 S. Williamson Blvd., Port Orange
- Hinson Middle School (PF), 1860 N. Clyde Morris Blvd., Daytona Beach
- Horizon Elementary School, 4751 Hidden Lake Drive, Port Orange
- Mainland High School, 1255 W. International Speedway Blvd., Daytona Beach
- New Smyrna Beach High School, 1015 10th St., New Smyrna Beach
- Palm Terrace Elementary School (FSNS & PF), 1825 Dunn Ave., Daytona Beach
- Pathways Elementary School, 2100 Airport Road, Ormond Beach

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- Pine Trail Elementary School, 300 Airport Road, Ormond Beach
- Sweetwater Elementary School, 5800 Victoria Gardens Blvd., Port Orange

West Volusia

- Citrus Grove Elementary School, 729 Hazen Road, DeLand
- DeBary Elementary School, 88 W. Highbanks Road, DeBary
- DeLand High School, 800 N. Hill Ave., DeLand
- DeLand Middle School, 1400 Aquarius Ave., DeLand
- Deltona High School (SIP), 100 Wolf Pack Run, Deltona
- Deltona Lakes Elementary School, 2022 Adelia Blvd., Deltona
- Discovery Elementary School, 975 Abigail Drive, Deltona
- Forest Lake Elementary School, 1600 Doyle Road, Deltona
- Freedom Elementary School (FSNS & PF), 1395 S. Blue Lake, DeLand
- Friendship Elementary School, 2746 Fulford St., Deltona
- Galaxy Middle School (FSNS & PF), 2400 Eustace Ave., Deltona
- Heritage Middle School (FSNS & PF), 1001 Parnell Court, Deltona
- Manatee Cove Elementary School, 734 W. Ohio Ave., Orange City
- Osteen Elementary School, 500 Doyle Road, Osteen
- Pine Ridge High School (SIP), 925 Howland Blvd., Deltona
- Pride Elementary School, 1100 Learning Lane, Deltona
- River Springs Middle School, 900 W. Ohio Ave., Orange City
- Spirit Elementary School, 1500 Meadowlark Drive, Deltona
- Sunrise Elementary School, 3155 Phonetia Drive, Deltona
- T.D. Taylor Middle/High School, 100 E. Washington Ave., Pierson
- Timbercrest Elementary School, 2401 Eustace Ave., Deltona
- University High School 1000 W. Rhode Island Ave., Orange City
- Volusia County Fairgrounds (PPS) 3150 E. State Road 44 DeLand (1/4 mile east of Interstate 4 on State Road 44)
- Volusia Pines Elementary School, 500 E. Kicklighter Road, Lake Helen

0002073347

Flagler County shelters

Not all shelters will open for every emergency, so it is important to monitor local media or call the Flagler County Emergency Services information line at 386-586-5111 to find out which shelters are open at the time of an incident.

Flagler County Emergency Services also dedicates a shelter for people with special needs during an evacuation. For information on registering for such help, see page 11.

- Belle Terre Elementary School, 5545 Belle Terre Parkway, Palm Coast
- Bunnell Elementary School, 305 N. Palmetto St., Bunnell
- Flagler Palm Coast High School, 3265 E. Moody Blvd., Palm Coast
- Indian Trails Middle School, 5505 Belle Terre Parkway, Palm Coast
- Matanzas High School, 3535 N. Old Kings Road, Palm Coast
- Old Kings Elementary School, 301 S. Old Kings Road, Flagler Beach
- Rymfire Elementary School, 1425 Rymfire Drive, Palm Coast
- Wadsworth Elementary School, 4550 Belle Terre Parkway, Palm Coast

0002070315

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Be prepared for SEVERE THUNDERSTORMS

A thunderstorm is considered severe if it produces hail at least 1 inch in diameter or has wind gusts of at least 58 mph. Every thunderstorm produces lightning, which kills more people each year than tornadoes or hurricanes.

Heavy rain from thunderstorms can cause flash flooding and high winds can damage homes and blow down trees and utility poles, causing widespread power outages.

Here's what the American Red Cross and other experts say you should do:

- Listen to local news or NOAA Weather Radio for emergency updates. Watch for signs of a storm, like darkening skies, lightning flashes or increasing wind.
- Postpone outdoor activities if thunderstorms are likely to occur. Many people struck by lightning are not in the area where rain is occurring.
- If a severe thunderstorm warning is issued, take shelter in a substantial building or in a vehicle with the windows closed. Get out of mobile homes

that can blow over in high winds.

- If you can hear thunder, you are close enough to be in danger from lightning. The National Weather Service recommends staying inside for at least 30 minutes after the last thunder clap.
- Avoid electrical equipment and telephones. Use battery-powered TVs and radios and cordless phones or cellphones instead.
- Close outside doors securely. Keep away from windows.
- Do not take a bath, shower or use plumbing.
- If you are driving, try to safely exit the roadway and park. Stay in the vehicle and turn on the emergency flashers until the heavy rain ends. Avoid touching metal or other surfaces that conduct electricity in and outside the vehicle.
- If you are outside and cannot reach a safe building, avoid high ground; water; tall, isolated trees; and metal objects such as fences or bleachers.

A few words about LIGHTNING

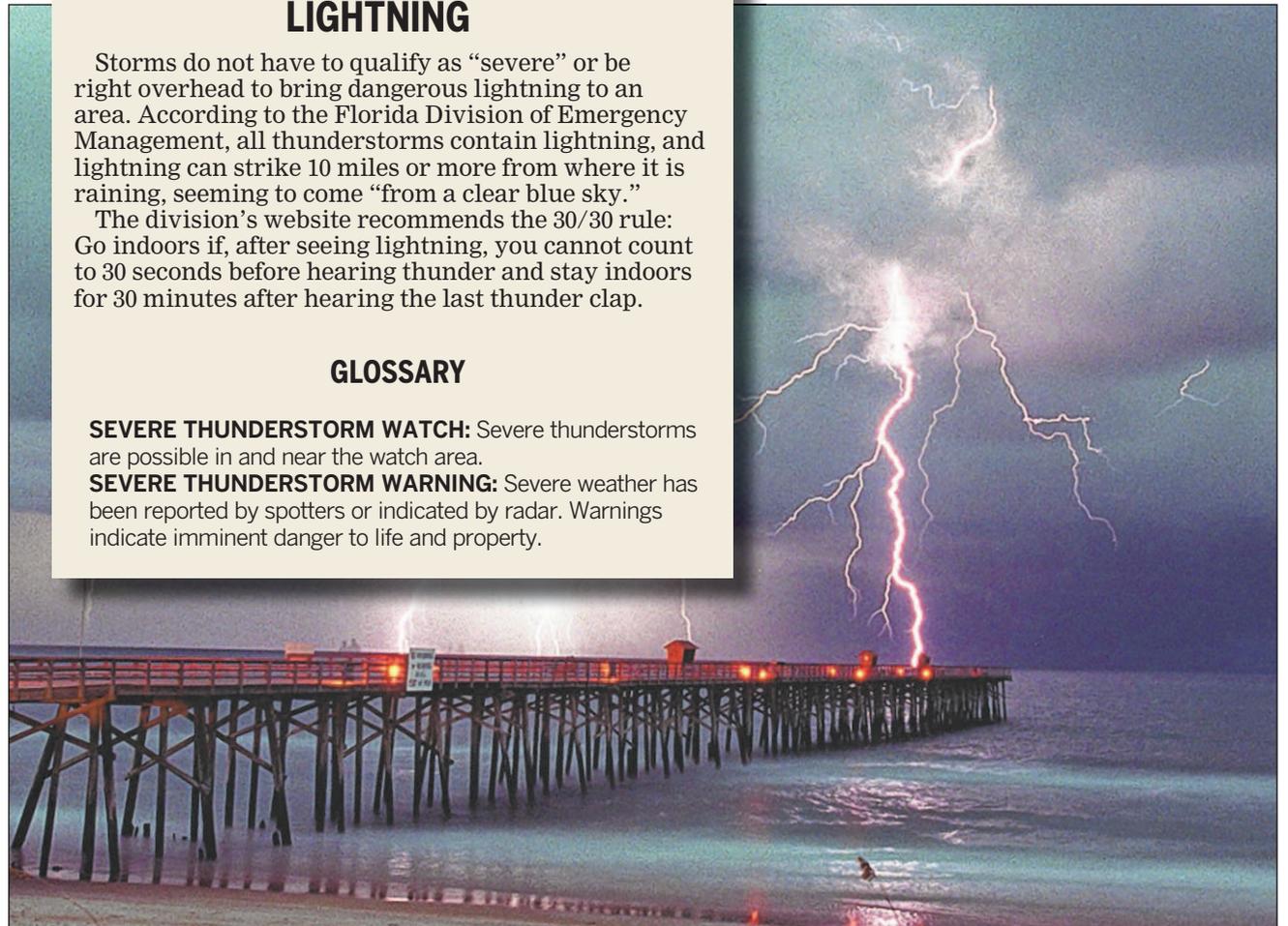
Storms do not have to qualify as "severe" or be right overhead to bring dangerous lightning to an area. According to the Florida Division of Emergency Management, all thunderstorms contain lightning, and lightning can strike 10 miles or more from where it is raining, seeming to come "from a clear blue sky."

The division's website recommends the 30/30 rule: Go indoors if, after seeing lightning, you cannot count to 30 seconds before hearing thunder and stay indoors for 30 minutes after hearing the last thunder clap.

GLOSSARY

SEVERE THUNDERSTORM WATCH: Severe thunderstorms are possible in and near the watch area.

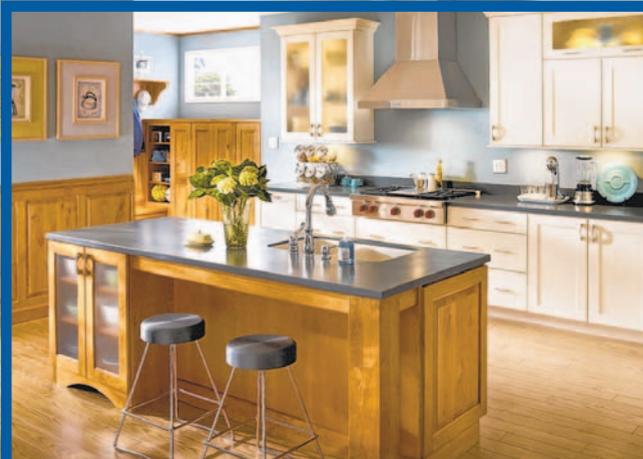
SEVERE THUNDERSTORM WARNING: Severe weather has been reported by spotters or indicated by radar. Warnings indicate imminent danger to life and property.



Lightning bolts light up the evening sky over the pier in Flagler Beach

News-Journal file/JIM TILLER

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Be prepared for TORNADOES

Tornadoes are violently rotating columns of air extending from the base of a thunderstorm down to the ground.

Tornado intensities are classified on the Fujita Scale with ratings between F0 (weakest) to F5 (strongest). They are capable of completely destroying well-made structures, uprooting trees and hurling objects through the air like deadly missiles.

The following tips for taking cover are from the Centers for Disease Control and Prevention:

- Take shelter immediately if a warning is issued or you see a funnel cloud nearby. However, if you spot a tornado that is far away, help alert others to the hazard by reporting it to the newsroom

of a local radio or TV station before taking shelter.

- One's view of an emerging funnel might be obscured. The following weather conditions also could be signs of an approaching tornado: a dark or green-colored sky; a large, dark, low-lying cloud; large hail; a loud roar that sounds like a freight train.

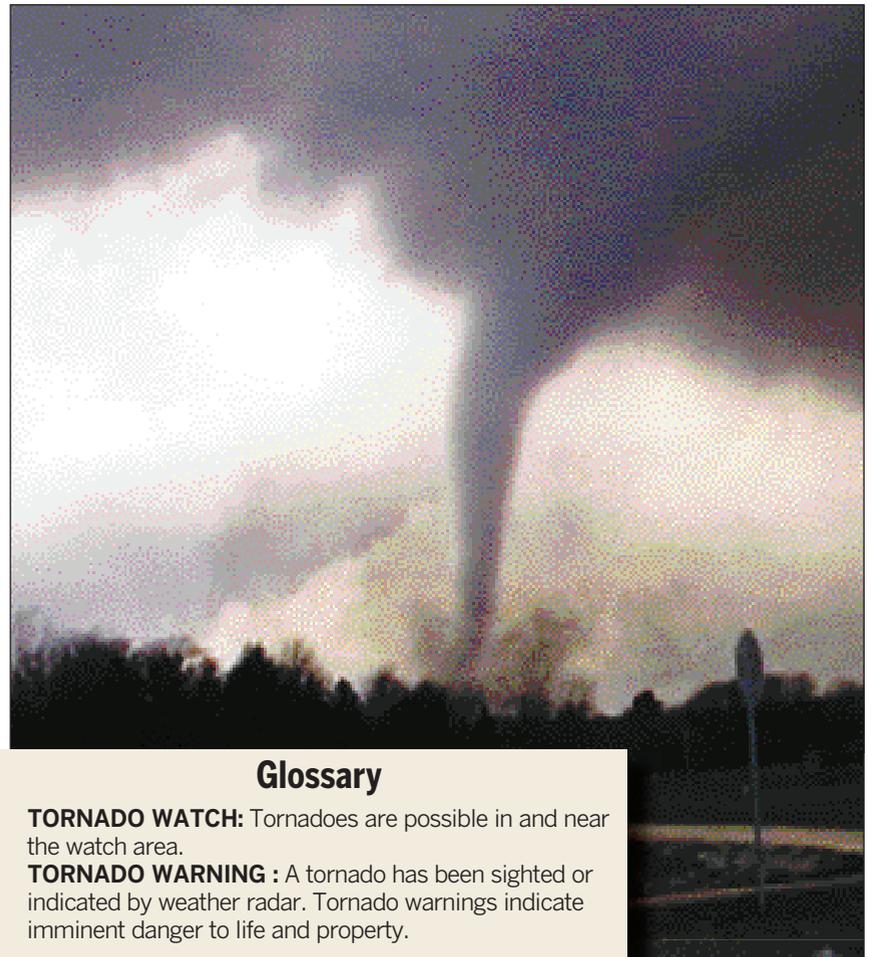
- The safest place in a house is the interior part of a basement or a safe room. If there is no basement or safe room, go to an inside room, without windows, on the lowest floor. This could be a center hallway, bathroom or closet.

- Do not stay in a mobile home during a tornado. Even mobile homes with a tie-down system cannot withstand the force of tornado winds. If you live in a mobile

home, go to a nearby building. If there is no shelter nearby, follow the directions below for taking cover outdoors.

- The least desirable place to be during a tornado is in a motor vehicle. Do not try to outrun a tornado in your car. If you see a tornado, stop your vehicle and get out. Do not get under your vehicle. Follow the directions below for seeking shelter outdoors.

- If you are caught outside during a tornado and there is no adequate shelter immediately available: avoid areas with many trees; avoid vehicles; lie down flat in a gully, ditch or low spot on the ground; protect your head with an object or with your arms.



Glossary

TORNADO WATCH: Tornadoes are possible in and near the watch area.

TORNADO WARNING : A tornado has been sighted or indicated by weather radar. Tornado warnings indicate imminent danger to life and property.

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News-Journal file/PETER BAUER

Geneva residents talk to a Volusia County firefighter as they drop off cold water at a staging area at the scene of a 1,200-acre brush fire along Maytown-Osteen Road in 1998.

Be prepared for WILDFIRES

Wildfires remain a constant threat in Florida, with seasonal droughts and frequent lightning.

Tips for reducing your home's vulnerability to wildfire damage may be found at firewise.org. The American Red Cross offers this advice for residents who learn their homes are in a fire's potential path:

- Be ready to leave at a moment's notice.
- Listen to local radio and television stations for updated emergency information.
- Always back your car into the garage or park it in an open space facing the direction of escape.
- Confine pets to one room so that you can find them if you need to evacuate quickly.

•Arrange for temporary housing at a friend or relative's home outside the threatened area.

Smoke from wildfires, a mixture of gases and fine particles from burning trees and other plant materials, poses a more far-reaching threat.

Smoke can hurt your eyes, irritate your respiratory system and worsen chronic heart and lung diseases. The Centers for Disease Control and Prevention offers these suggestions for limiting exposure and protecting your health:

- Pay attention to local air quality reports. If you are advised to stay indoors, keep indoor air as clean as possible. Keep windows and doors closed unless it is extremely hot outside. Run an air conditioner if you have one, but keep the

fresh-air intake closed and the filter clean to prevent outdoor smoke from getting inside. If you do not have an air conditioner and it is too warm to stay inside with the windows closed, seek shelter elsewhere.

- Do not add to indoor pollution. When smoke levels are high, do not use anything that burns, such as candles or gas stoves.
- Do not vacuum, because vacuuming stirs up particles already inside your home. Do not smoke.
- Do not rely on paper dust masks commonly found at hardware stores for protection. They are designed to trap large particles, such as sawdust, and will not protect your lungs from smoke.

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Brad Gordner:
Arc of Volusia board member.
Futures board member.
Dangerous golfer.
Marketing Development Manager.

Brad Gordner understands loyalty and hard work. He's been an active board member of FUTURES since 2009 supporting public education and the ARC of Volusia since 1999, where he's an advocate for a population that truly wants to contribute.

He's been married since 1977, and has worked at The News-Journal since 1976 as a proofreader, commercial printing customer service representative and promotions manager.

A natural lefty, he learned to play golf with his dad's right-handed clubs. "The most important club in my bag is the ball retriever," he says, "and while I'm comfortable with my skills, others need to stay alert."

Known for his humor and creativity, Brad's also written children's plays and has enjoyed coaching in local youth recreational leagues.

Because of our people, we deliver more than the news to the Volusia/Flagler community.

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Be prepared for FLOODING

Floods are among the most frequent and costly natural disasters, according to the American Red Cross. Conditions that cause floods include heavy or steady rain for several hours or days that saturates the ground. Flash floods occur suddenly due to rapidly rising water along a stream or low-lying area.

The organization offers the following tips for coping with flood conditions:

- If flooding is predicted, be prepared to evacuate at a moment's notice. When a warning is issued for your area, head for higher ground and stay there.

- Stay away from floodwaters. If you come upon a flowing stream where water is above your ankles, stop, turn around and go another way. Six inches of swiftly moving water can sweep you off of your feet.

- If you come upon a flooded road while driving, turn around and go another way. If you are caught on a flooded road and waters are rising rapidly around you, get out of the car quickly and move to higher ground.

- Most cars can be swept away by less than two feet of moving water.

- Keep children out of the water.

Glossary

FLOOD/FLASH FLOOD WATCH: Flooding or flash flooding is possible in your area.

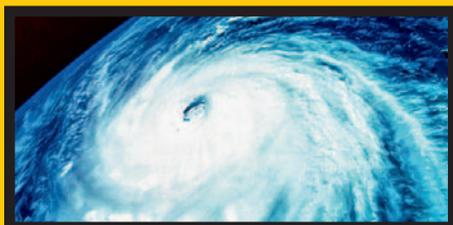
FLOOD/FLASH FLOOD WARNING: Flooding or flash flooding is already occurring or will occur soon in your area.



News-Journal file/PETER BAUER

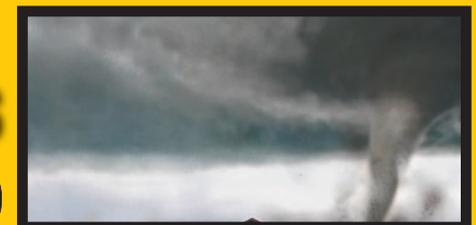
Vehicles and people slog along South Caroline Street in flood waters left from several days of heavy rains in Daytona Beach in 2009.

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