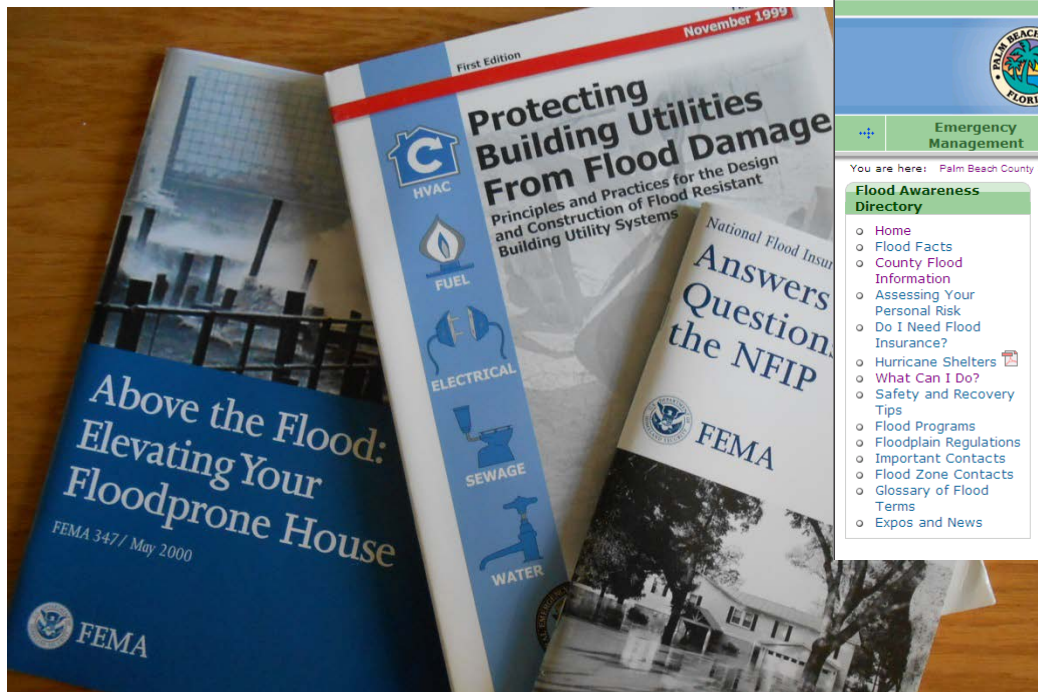


# 350 – Flood Protection Information

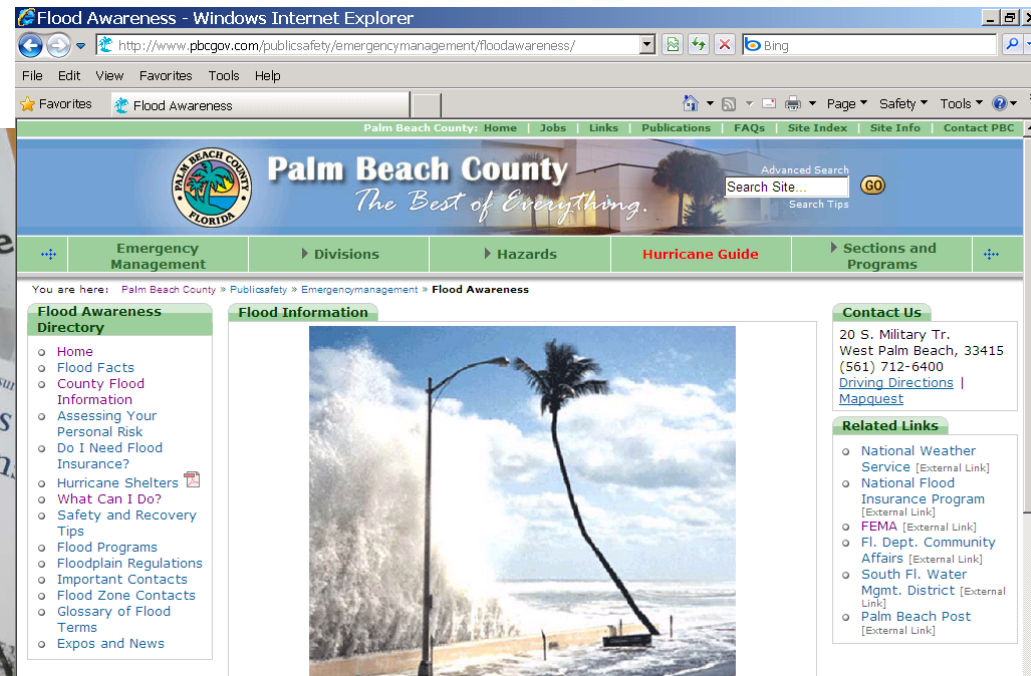
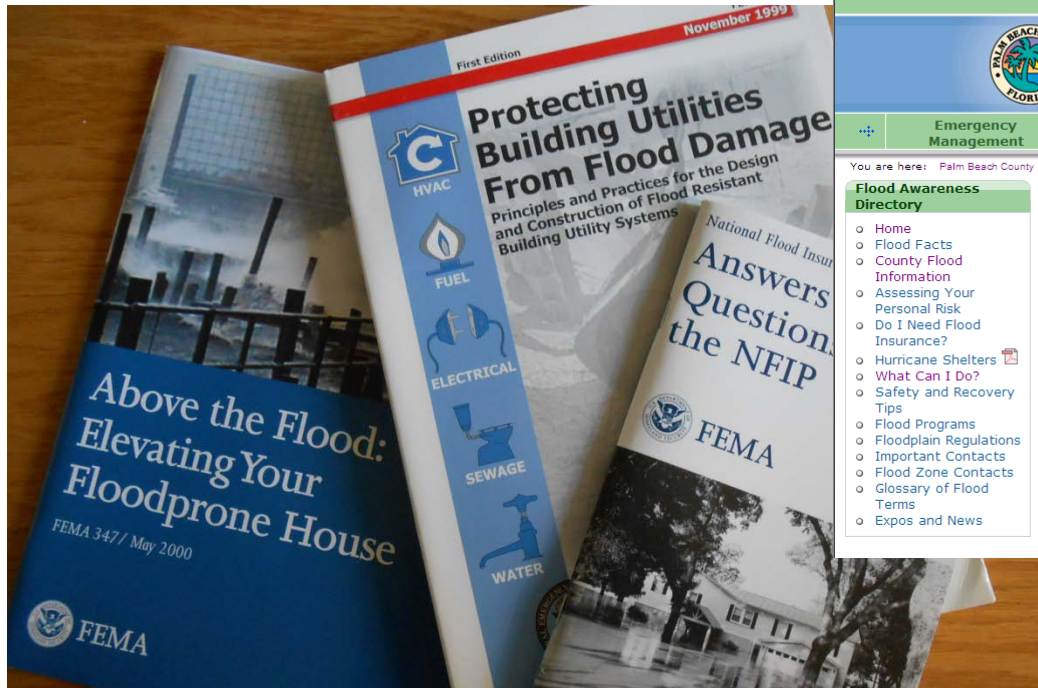


The screenshot shows a Windows Internet Explorer browser window displaying the Palm Beach County website. The address bar shows the URL: <http://www.pbcgov.com/publicsafety/emergencymanagement/floodawareness/>. The website header includes the Palm Beach County logo and the slogan 'The Best of Everything.' Navigation tabs include 'Emergency Management', 'Divisions', 'Hazards', 'Hurricane Guide', and 'Sections and Programs'. The main content area is titled 'Flood Awareness' and includes a 'Flood Awareness Directory' with a list of links and a 'Flood Information' section with a photograph of a palm tree leaning over the ocean. A 'Contact Us' section provides the address: 20 S. Military Tr., West Palm Beach, 33415, and contact information: (561) 712-6400. Related links include National Weather Service, National Flood Insurance Program, FEMA, Fl. Dept. Community Affairs, South Fl. Water Mgmt. District, and Palm Beach Post.

# 350 – Flood Protection Information

Manual Page 350-2

Objective: provide more detailed information about protecting people and property from flooding



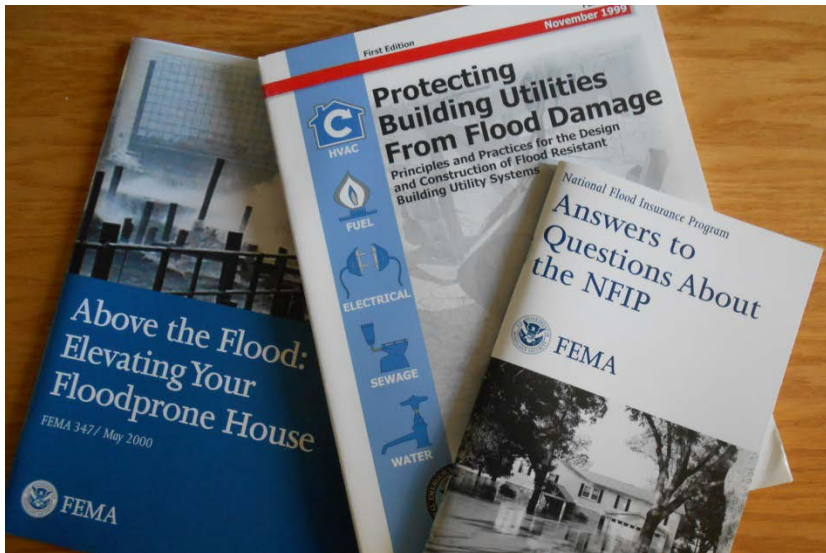
# 350 – Flood Protection Information

**Manual Pages 350-3 – 4**

## 352.a Flood protection library (LIB)

### Credit criteria

- 1) Catalog all 10 FEMA publications in the public library
- 2) Enter them into the card catalog



1. *Above the Flood: Elevating Your Floodprone House*, FEMA-347, 2000
2. *Answers to Questions About the National Flood Insurance Program*, F-084, 2011
3. *Coastal Construction Manual*, FEMA-P-55, 2011
4. *Elevated Residential Structures*, FEMA-54, 1984
- ~~5. *Mandatory Purchase of Flood Insurance Guidelines*, F-083, 2007~~
6. *Protecting Manufactured Homes from Floods and Other Hazards*, FEMA P-85, 2009
7. *Mitigation of Flood and Erosion Damage to Residential Buildings in Coastal Areas*, FEMA-257, 1994
8. *Protecting Building Utilities From Flood Damage*, FEMA-P-348, 1999
9. *Protecting Floodplain Resources*, FEMA-268, 1996
10. *Reducing Damage from Localized Flooding*, FEMA 511, 2005

**Figure 350-1. Publications credited under element LIB.**

# 350 – Flood Protection Information

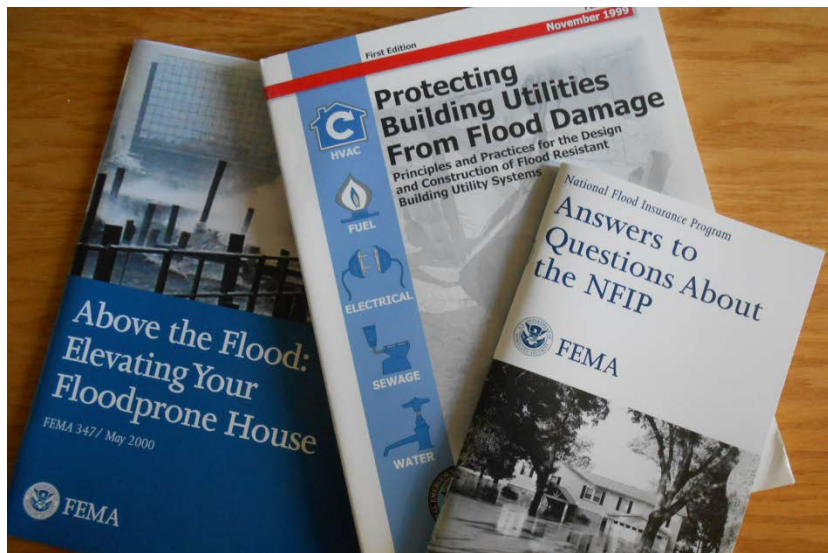
*Manual Page 350-4*

## Credit points

10 points for having all 9 publications cataloged

## Documentation

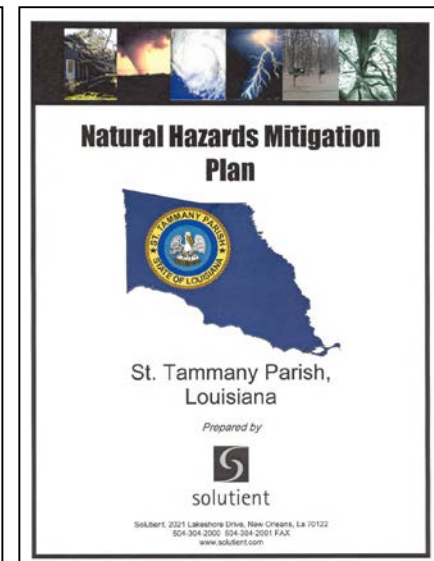
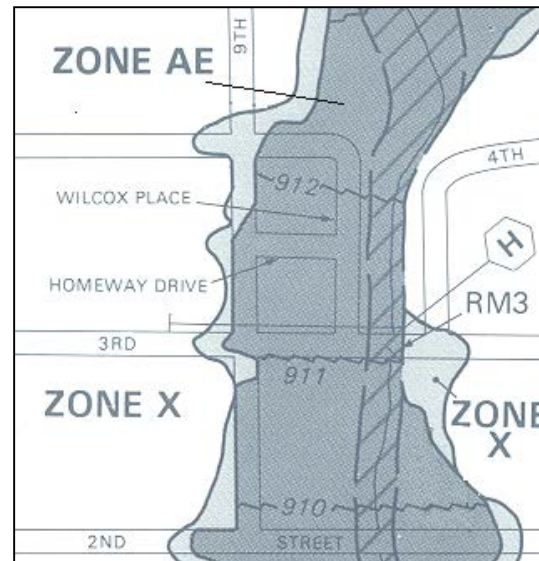
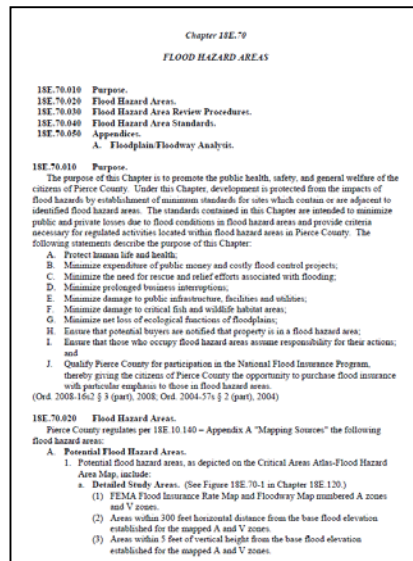
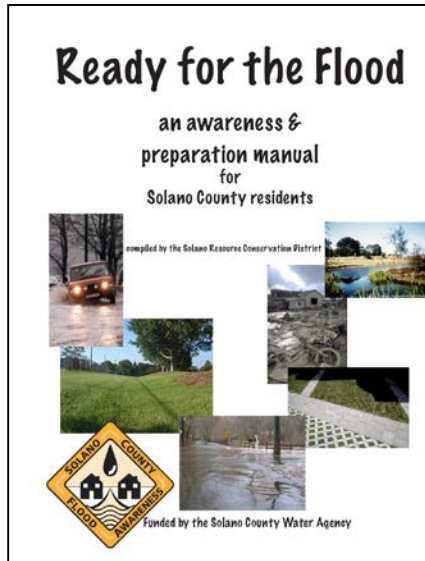
List of what has been cataloged



# 350 – Flood Protection Information

Manual Page 350-5

## 352.b Locally pertinent documents (LPD)



### Credit criteria

1) Must receive LIB credit

2) Enter them into the card catalog

1 point for each document, max 10 points

# 350 – Flood Protection Information

Manual Pages 350-6 – 7

## 352.c Flood protection website (WEB)

### Credit criteria

- 1) Easily found flood information home page
- 2) Flood home page must have a directory
- 3) Links OK if locally pertinent
- 4) Must inform about flood services
- 5) Link to FloodSmart.gov
- 6) Check and fix at least monthly
- 7) Extra credit if WEB in PPI



# 350 – Flood Protection Information

Manual Page 350-7

## WEB1 - Flood protection messages

Must provide more detailed information than in outreach projects

Up to 6 points per topic

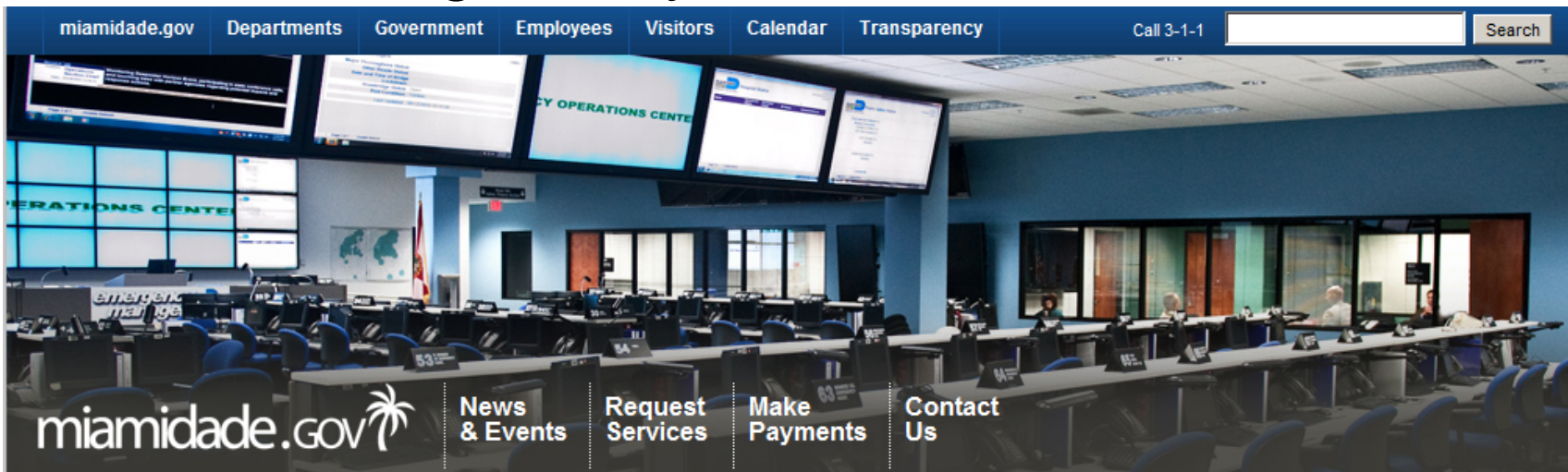
Table 330-1. CRS topics and example messages.

Six Priority Topics	Example Messages
1. Know your flood hazard	Your property is subject to flooding You are in a repetitively flooded area Drive safely: five people died in the 2002 flood
2. Insure your property for your flood hazard <b>Note: at least one project must include a message on this topic</b>	You need flood insurance Renters should buy flood insurance for their contents Take advantage of a low-cost Preferred Risk Policy
3. Protect people from the hazard	Turn around, don't drown Know the flood warning signals: one long blast of the siren means a flash flood along Silver Creek Designate a place where your family can rendezvous after an evacuation order is issued
4. Protect your property from the hazard	Replace your flooded furnace with one elevated above the flood level Keep debris and trash out of the streams and ditches We can help you get a grant to elevate your home. Call us at
5. Build responsibly	Get a permit before you build from .... Know the substantial damage rules (and the ICC benefits). You can see them at www..... All projects should be at least 10 feet from the property line so you don't alter the drainage between homes
6. Protect natural floodplain functions	Don't dump in the storm drains; they drain to the bay Protect our turtle nesting areas: stay off the beach after sunset Report broken silt fences: they help keep our streams clean

# 350 – Flood Protection Information

Manual Page 350-9

## WEB2 – Warning, safety, evacuation info



### Fire Rescue

Emergency Response

Emergency Management

Business Recovery

Comprehensive Emergency Management Plan

Consumer Survival Kit

Emergency Supply Kit

EOC Activation Levels

Evacuations

Emergency Evacuation Assistance Program

Family Emergency Plan

Last Visited » [Emergency Management](#) » Evacuations

### Evacuations

#### 2012 Hurricane Evacuation Centers

OEM partners with Dade County Public Schools and the American Red Cross (ARC), to operate Hurricane Evacuation Centers (HEC). These HECs provide refuges of last resort for those individuals who need to evacuate and are unable to make their own evacuation/sheltering arrangements, such as with friends, family, or in hotels outside of the evacuation zones.

- » [English](#)
- » [Español](#)
- » [Creole](#)

#### Bus Pickup Points

For those individuals who do not have their own transportation to the HECs, this is

#### Evacuations

[Evacuation FAQs](#)

[Evacuation Zones](#)

[Evacuation Zones Map](#)

[Storm Surge Simulator](#)

List of Hurricane Evacuation

Up to 15 points

[English](#)

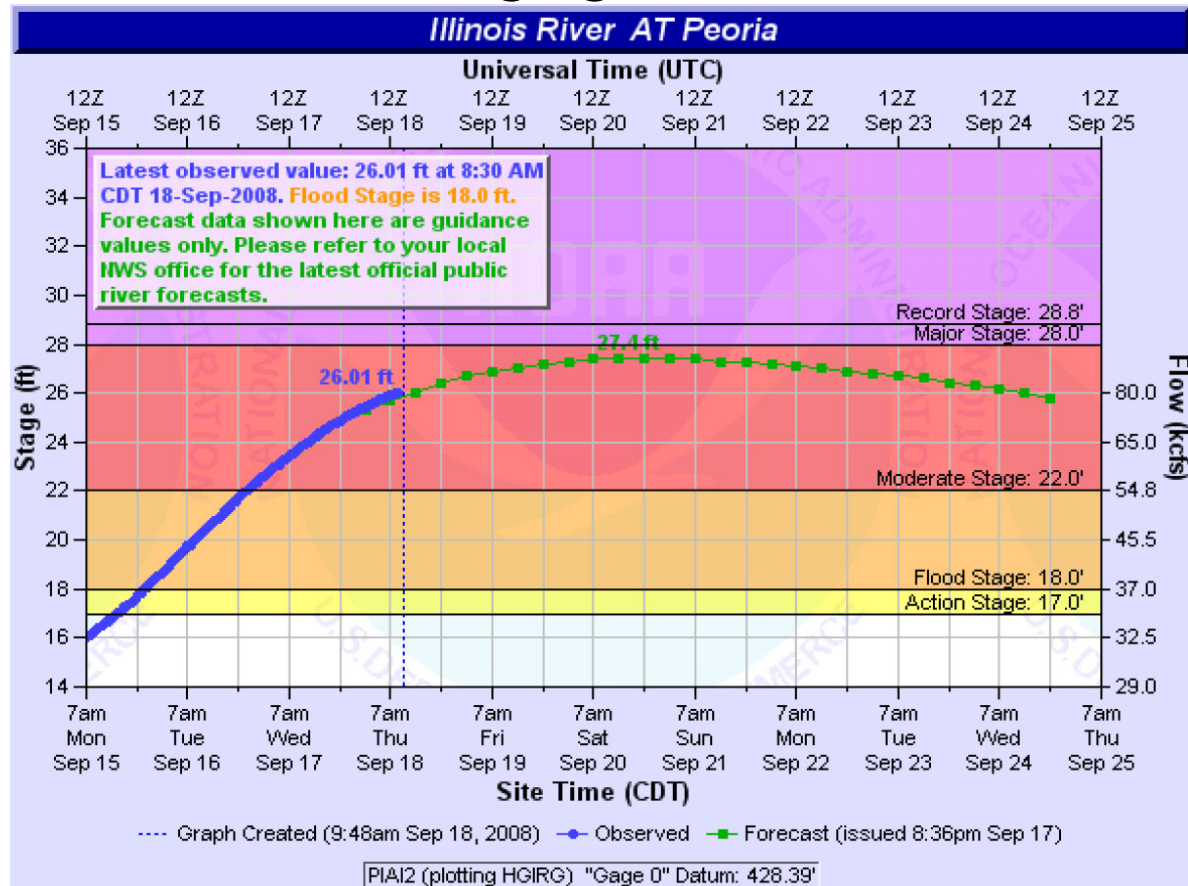
» [Creole](#)



# 350 – Flood Protection Information

Manual Page 350-9

## WEB3 – Real time gage information

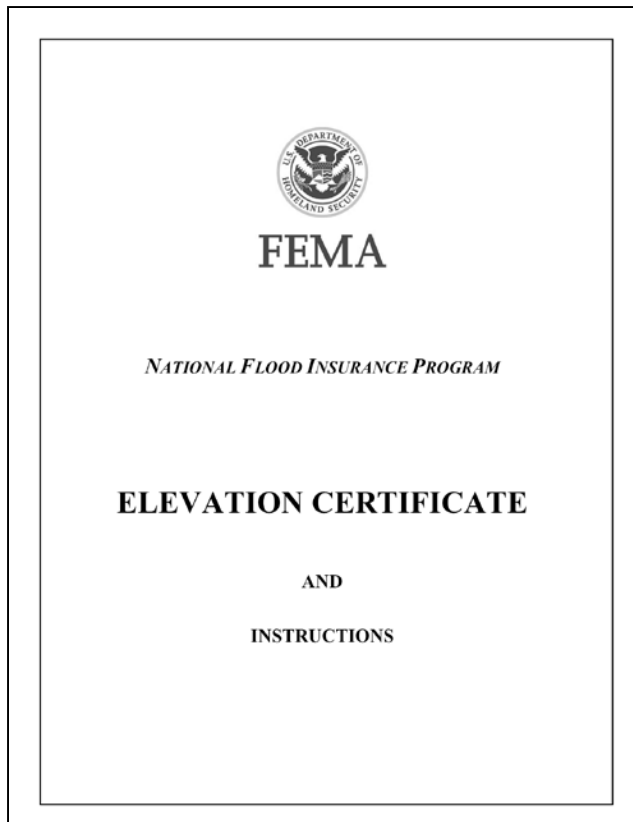


Up to 10 points

# 350 – Flood Protection Information

Manual Page 350-10

## WEB4 – Posting Elevation Certificates



U.S. DEPARTMENT OF HOMELAND SECURITY  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
National Flood Insurance Program

**ELEVATION CERTIFICATE**  
IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1560-0008  
Expiration Date: July 31, 2015

**SECTION A – PROPERTY INFORMATION** FOR INSURANCE COMPANY USE

A1. Building Owner's Name \_\_\_\_\_ Policy Number: \_\_\_\_\_  
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. \_\_\_\_\_ Company NAC Number: \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_  
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) \_\_\_\_\_  
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) \_\_\_\_\_  
A5. Latitude/Longitude: Lat. \_\_\_\_\_ Long. \_\_\_\_\_ Horizontal Datum:  NAD 1927  NAD 1983  
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.  
A7. Building Diagram Number \_\_\_\_\_  
A8. For a building with a crawlspace or enclosure(s):  
a) Square footage of crawlspace or enclosure(s) \_\_\_\_\_ sq ft  
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade \_\_\_\_\_  
c) Total net area of flood openings in A8.b \_\_\_\_\_ sq in  
d) Engineered flood openings?  Yes  No  
A9. For a building with an attached garage:  
a) Square footage of attached garage \_\_\_\_\_ sq ft  
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade \_\_\_\_\_  
c) Total net area of flood openings in A9.b \_\_\_\_\_ sq in  
d) Engineered flood openings?  Yes  No

**SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION**

B1. MFP Community Name & Community Number \_\_\_\_\_ B2. County Name \_\_\_\_\_ B3. State \_\_\_\_\_  
B4. Map/Panel Number \_\_\_\_\_ B5. Suffix \_\_\_\_\_ B6. FIRM Index Date \_\_\_\_\_ B7. FIRM Panel Effective/Revised Date \_\_\_\_\_ B8. Flood Zone(s) \_\_\_\_\_ B9. Base Flood Elevation(s) (Zone A0, use base flood depth) \_\_\_\_\_

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:  
 FRS Profile  FIRM  Community Determined  Other/Source: \_\_\_\_\_  
B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_  
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
Designation Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  CBRS  OPA

**SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)**

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.  
C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/A0. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.  
Benchmarks Utilized: \_\_\_\_\_ Vertical Datum: \_\_\_\_\_  
Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_  
Datum used for building elevations must be the same as that used for the BFE.  
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) \_\_\_\_\_ feet  meters  
b) Top of the next higher floor \_\_\_\_\_ feet  meters  
c) Bottom of the lowest horizontal structural member (V Zones only) \_\_\_\_\_ feet  meters  
d) Attached garage (top of slab) \_\_\_\_\_ feet  meters  
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) \_\_\_\_\_ feet  meters  
f) Lowest adjacent (finished) grade next to building (LAG) \_\_\_\_\_ feet  meters  
g) Highest adjacent (finished) grade next to building (HAG) \_\_\_\_\_ feet  meters  
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support \_\_\_\_\_ feet  meters

**SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION**

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1002.  
 Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  
 Check here if attachments.

Certifier's Name \_\_\_\_\_ License Number \_\_\_\_\_  
Title \_\_\_\_\_ Company Name \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_ Telephone \_\_\_\_\_

PLACE SEAL HERE

FEMA Form 086-0-33 (7/12) See reverse side for continuation. Replaces all previous editions.

Up to 20 points

# 350 – Flood Protection Information

## Documentation

# 350 – Flood Protection Information

*Manual Page 350-11*

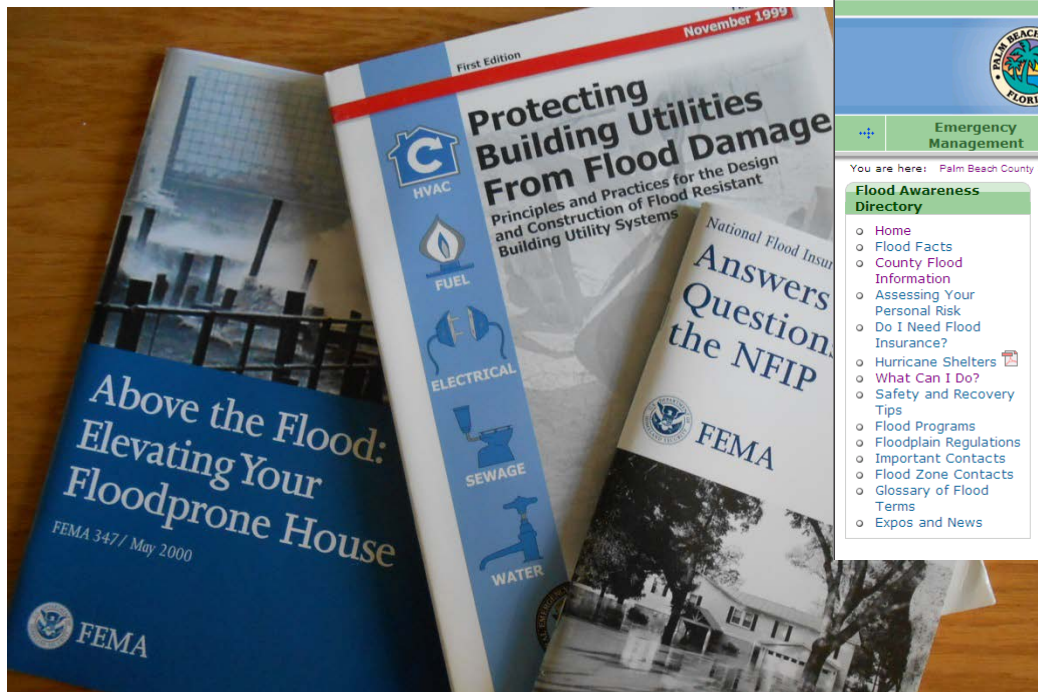
Credit calculation:

$$\text{WEB} = \text{WEB1} + \text{WEB2} + \text{WEB3} + \text{WEB4}$$

$$\text{c350} = \text{LIB} + \text{LPD} + \text{WEB}$$

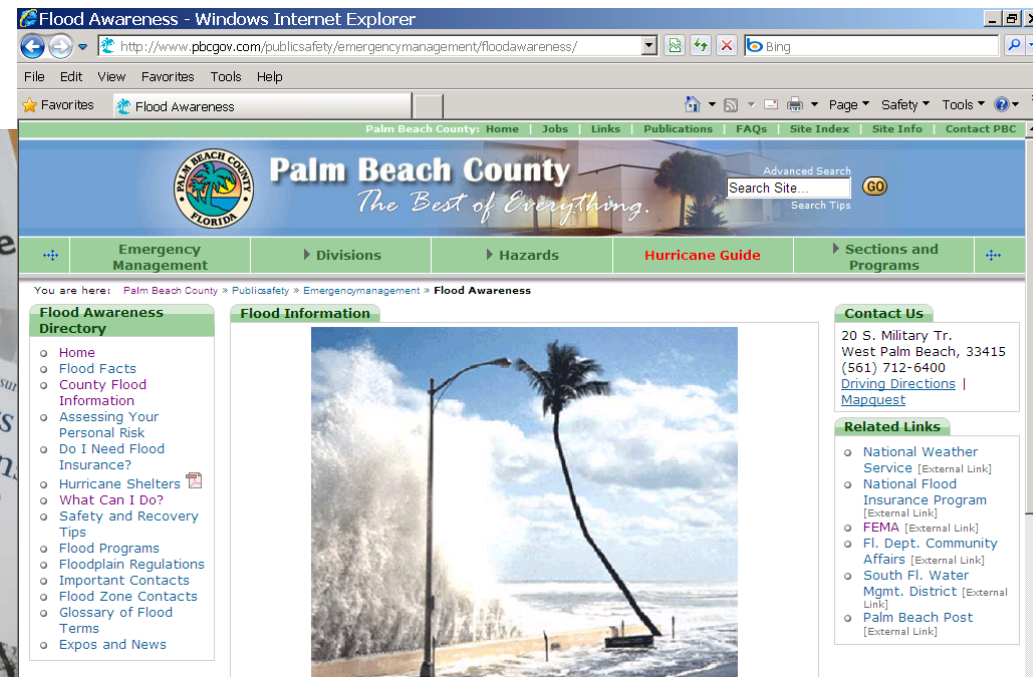
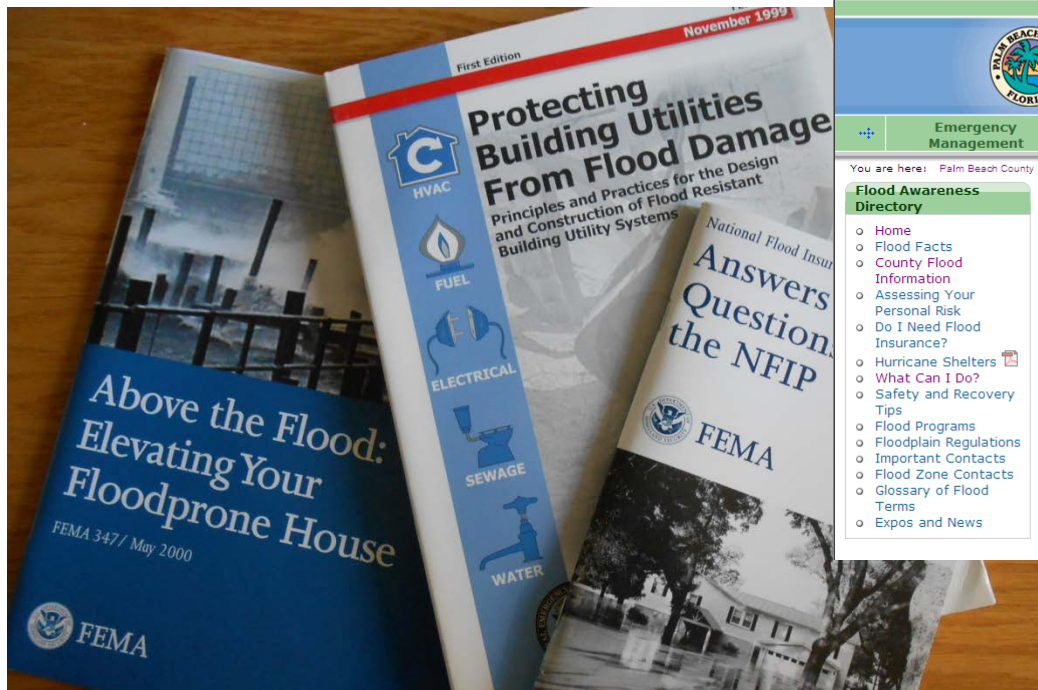
# 350 – Flood Protection Information

## Questions?



# 350 – Flood Protection Information

## Assignment



# 350 – Flood Protection Information

## 350 Flood Protection Information

### Assignment

This handout has some screen prints from a real community's website. Review the site. The questions will be asked of the whole class.

### Home Page

**South Holland** A Heritage of Faith  
An Emphasis on Family  
A Home for our Future

Connect With Us!

Home Departments Community Government Information Calendar FAQ Contact Us Search

**Discover South Holland!**  
**Resident Partners**  
**Business Partners**  
**Community Connection Channel**  
**Vision 2022**

Home	Departments	Community	Government	Information
Home	Administration and Village Board	Distinctive Traits	Administration	Maps & Directions
Calendar	Police Department	Community Events	Village Board News	Community Center Rentals
FAQ	Fire Department	Churches	Downloadable Forms	Faith Family Future Center
Contact Us	Economic Development	Schools	Online Payments	Voter Registration
Search	Building and Code Department	Business Listing		Flood Protection
	Flood Assistance	Organizations		Flood Monitoring
	Recreational Services	Youth Organizations		For New Residents
	Parks	Resources		Employment Opportunities
	Public Works			News Releases
	E.S.D.A.			History of South Holland
	Clerk & Collector			

# 350 – Flood Protection Information

Question 1. Does the website meet credit criterion #1?



# 350 – Flood Protection Information

Question 1. Does the website meet credit criterion #1?

	Departments	Community	Government	Information
Home	Administration and Village Board	Distinctive Traits	Administration	Maps & Directions
Calendar	Police Department	Community Events	Village Board News	Community Center Rentals
FAQ	Fire Department	Churches	Downloadable Forms	Faith Family Future Center
Contact Us	Economic Development	Schools	Online Payments	Voter Registration
Search	Building and Code Department	Business Listing	Yes	Flood Protection
	Flood Assistance	Organizations		Flood Monitoring
	Recreational Services	Youth Organizations		For New Residents
	Parks	Resources		Employment Opportunities
	Public Works			News Releases
	E.S.D.A.			History of South Holland
	Clerk & Collector			
	Communications			
	Community Connections Channel			
	Public Library			
	Community Center			

# 350 – Flood Protection Information

If you click on “Flood Protection,” you go to the “Flooding and Flood Protection” page at the bottom of the first page in the handout.

Question 2. Does the website meet credit criterion #2?

The screenshot shows the website's navigation menu with options: Home, Departments, Community, Government, Information, Calendar, FAQ, Contact Us, and Search. The main content area is titled "Flooding and Flood Protection" and features the Village of South Holland logo with the tagline "Faith, Family, & Future". A sidebar on the left lists various flood protection topics. The main text asks "What's your situation now?" and provides three bullet points with links to "Flood Safety", "During A Flood", "After A Flood", "Our Flooding Problems", and "Where to Start". A contact number for the Flood Assistance Coordinator is also provided.

**Flood Protection**

**Flooding and Flood Protection**

The Village of South Holland  
Faith, Family, & Future

## Flooding and Flood Protection

What's your situation now?

- Has flooding started? If so, go to [Flood Safety](#) and [During A Flood](#).
- Have you just been flooded? If so, start with [After A Flood](#). Then look through the rest of pages on this site.
- If you're not in a rush and want to know how to protect yourself from the next flood, start with [Our Flooding Problems](#) and [Where to Start](#).

If you have any questions on the ideas presented in this website or would like more help on flood protection, please call the Flood Assistance Coordinator at 210-2915.

**Flood Protection**

- Flood Protection Main
- Our Flooding Problems
- Floodplain Map
- What the Village is Doing
- Flood Safety
- Flood Damage
- Where to Start
- Protect Your House
- Flood Protection Laws
- Insurance
- During A Flood
- After A Flood
- Protecting our Streams

# 350 – Flood Protection Information

If you click on “Flood Protection,” you go to the “Flooding and Flood Protection” page at the bottom of the first page in the handout.

Question 2. Does the website meet credit criterion #2?

The screenshot shows the website's navigation bar with links: Home, Departments, Community, Government, Information, Calendar, FAQ, Contact Us, Search, and a 'Yes' button. The main header reads 'Flooding and Flood Protection'. A sidebar menu on the left lists various flood-related topics, with 'Flood Protection' highlighted. The main content area asks 'What's your situation now?' and provides three bullet points with links to 'Flood Safety', 'During A Flood', 'After A Flood', 'Our Flooding Problems', and 'Where to Start'. A contact number for the Flood Assistance Coordinator is also provided.

# 350 – Flood Protection Information

Question 3. On the “Protect Your House” page (bottom of page 350-3), there are links. Do these links meet credit criterion #3?

Home Departments Community Government Information Calendar FAQ Contact Us Search

Flood Protection

Flood Protection Main  
Our Flooding Problems  
Floodplain Map  
What the Village is Doing  
Flood Safety  
Flood Damage  
Where to Start  
Protect Your House  
Flood Protection Laws  
Insurance  
During A Flood  
After A Flood  
Protecting our Streams

The Village of South Holland  
Protect Your House

Barriers Dry Floodproofing Wet Floodproofing Basements

There are many ways you can protect your home, garage or other property from the types of flood damage experienced in South Holland. Different techniques are appropriate for different types of buildings.

It is important to note that these protection measures are for existing buildings. There are different requirements for new buildings. These measures will not relieve you from the need to buy flood insurance if your building is in a mapped floodplain.

- If your house is on a **crawlspace**
- If your house is on a **slab** foundation
- If you have a **basement**, split level, or other floor below ground level

- Look into [barriers](#), and [wet floodproofing](#)
- Check out [barriers](#) and [dry floodproofing](#)
- Learn about [barriers](#), [wet floodproofing](#), and [basement protection](#)

Additional information is available from FEMA publications, including *Homeowner's Guide to Retrofitting: Six Ways to protect Your House from Flooding*. Another good publication is *Protecting Building Utilities From Flood Damage*. These references can be found at [www.fema.gov/plan/prevent/floodplain/publications.shtm](http://www.fema.gov/plan/prevent/floodplain/publications.shtm) or at the [South Holland Public Library](#).

**Disclaimer:**  
This information is designed to give you an overview of steps that can be taken to protect a property from damage from the type of surface water flooding and sewer backup that faces South Holland. The information provided is based on careful research and input from experienced professionals. You must assume responsibility for adapting this information to fit your conditions. This guide is not intended to replace the advice and

AGENCY PARTNER with

Homeowner's Guide to Retrofitting  
Six Ways To Protect Your House From Flooding

# 350 – Flood Protection Information

Question 3. On the “Protect Your House” page (bottom of page 350-3), there are links. Do these links meet credit criterion #3?

Home Departments Community Government Information Calendar FAQ Contact Us Search

Flood Protection

Protect Your House

The Village of South Holland  
Earth, Family & Future

## Protect Your House

[Barriers](#) [Dry Floodproofing](#) [Wet Floodproofing](#) [Basements](#)

There are many ways you can protect your home, garage or other property from the types of flood damage experienced in South Holland. Different techniques are appropriate for different types of buildings.

It is important to note that the measures are for existing buildings. There are different requirements for new buildings. These measures protect you from the need to buy flood insurance if your building is in a mapped floodplain.

**Yes**

- If your house is on a **crawlspace**
- If your house is on a **slab** foundation
- If you have a **basement**, split level, or other floor below ground level

- Look into [barriers](#), and [wet floodproofing](#)
- Check out [barriers](#) and [dry floodproofing](#)
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**AGENCY PARTNER with**

**Homeowner's Guide to Retrofitting**  
Six Ways To Protect Your House From Flooding

# 350 – Flood Protection Information

## Question 4. Does this section meet credit criterion #4?

### Floodplain Map

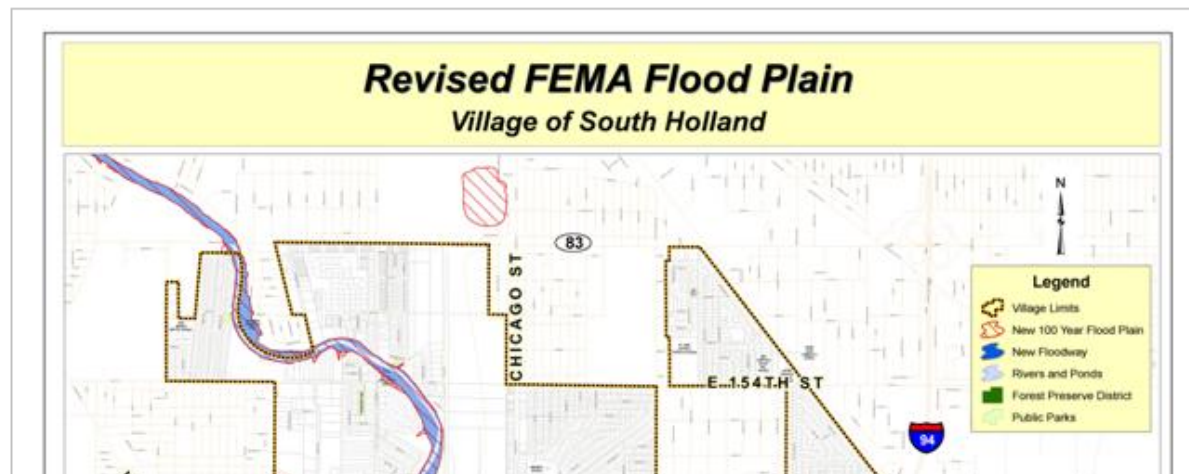
The map below shows the 100-year floodplain or Special Flood Hazard Area for South Holland as shown on the official Flood Insurance Rate Map for Cook County. It should not be used for any official determinations, such as insurance rate setting.

To find out if your property is in the official floodplain mapped on FEMA's Flood Insurance Rate Map, contact the Planning and Development Department at 210-2915.

The Flood Insurance Rate Map was updated in August 2008. The new map shows a smaller Special Flood Hazard Area.

To see more flood maps in Illinois, visit <http://www.illinoisfloodmaps.org>.

For more information on FEMA's maps, see [www.fema.gov/plan/prevent/fhm/hm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/hm_main.shtm)



# 350 – Flood Protection Information

Question 4. Does this section meet credit criterion #4?

## Floodplain Map

The map below shows the 100-year floodplain or Special Flood Hazard Area for South Holland as shown on the official Flood Insurance Rate Map for Cook County. It should not be used for any official determinations, such as insurance rate setting.

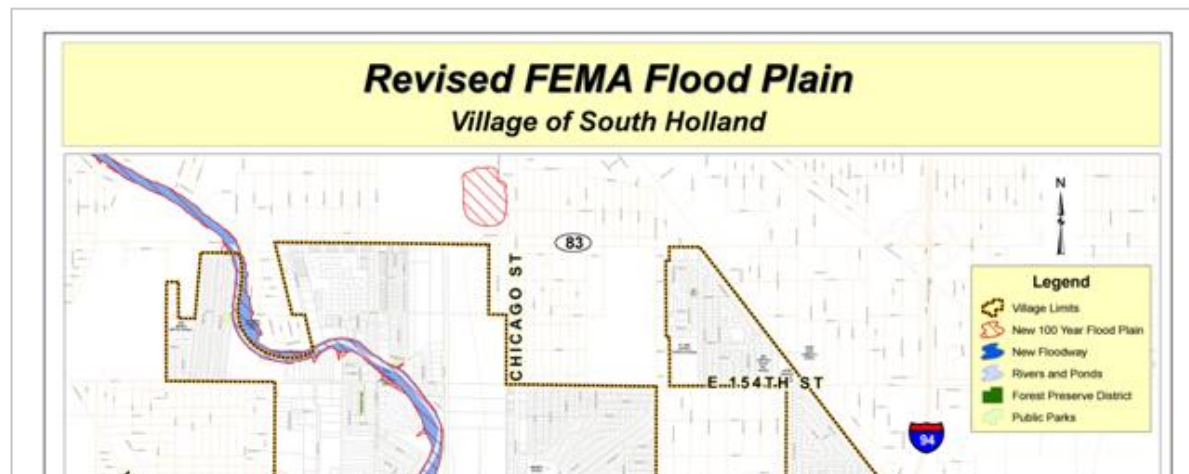
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For more information on FEMA's maps, see [www.fema.gov/plan/prevent/fhm/hm\\_main.shtm](http://www.fema.gov/plan/prevent/fhm/hm_main.shtm)

Yes



# 350 – Flood Protection Information

Question 5. Does the website meet credit criterion #5?



# 350 – Flood Protection Information

Question 5. Does the website meet credit criterion #5?

**South Holland** A Heritage of Faith  
An Emphasis on Family  
A Home for our Future

Connect With Us!

Home Departments Community Government Information Calendar FAQ Contact Us Search

**Flood Protection** Insurance

**Insurance**

[Flood Insurance](#) [Filing a Flood Insurance Claim](#) [Sewer Backup Insurance](#)

**Flood insurance**

Flood insurance is highly recommended. Remember, even if the last storm or flood missed you and even if your home has been floodproofed, the next flood could be worse. Most homeowners insurance policies do not cover property for flood damage. South Holland participates in the National Flood Insurance Program. Local insurance agents can sell a flood insurance policy under rules and rates set by the Federal government. Any agent can sell a policy and all agents must charge the same rates.

Any house can be covered by a flood insurance policy. It does not matter if it is in the mapped floodplain or out of it. Detached garages and accessory buildings are covered under the policy for the lot's main building. Separate coverage can be obtained for the building's *structure* and for its *contents* (except for money, valuable papers, and the like). The *structure* generally includes everything that stays with a house when it is sold, including the furnace, cabinets, built in appliances, and wall-to-wall carpeting.

Don't wait for the next flood to buy insurance protection. There is a 30-day waiting period before National Flood Insurance coverage takes effect. Contact your insurance agent for more information on rebates and coverage or see <http://www.floodsmart.gov/floodsmart/pages/inscenter.jsp>

There is no coverage for things outside the house, like the driveway and landscaping. Renters can buy contents coverage, even if the owner does not buy structural coverage on the building.

Some people have purchased flood insurance because it was required by the bank when they got a mortgage or home improvement loan. *If you have a policy, check it closely.* You may

**Yes**

**AGENCY PARTNER with**





# 350 – Flood Protection Information

Question 6. Based on the pages you see, what topics would be credited under WEB1?

# 350 – Flood Protection Information

Question 6. Based on the pages you see, what topics would be credited under WEB1?



Six Priority Topics	Example Messages
1. Know your flood hazard	<p>Our Flooding Problems</p> 
2. Insure your property for your flood hazard <i>Note: at least one project must include a message on this topic</i>	<p>Insurance</p> 
3. Protect people from the hazard	<p>During A Flood</p>  <p>evacuation order is issued</p>
4. Protect your property from the hazard	<p>Protect Your House</p> 
5. Build responsibly	<p>Get a permit before you build from .... Know the substantial damage rules (and the ICC benefits). You can see them at www..... All projects should be at least 10 feet from the property line so you don't alter the drainage between homes</p>
6. Protect natural floodplain functions	<p>Don't dump in the storm drains; they drain to the bay Protect our turtle nesting areas: stay off the beach after sunset Report broken silt fences: they help keep our streams clean</p>

# 350 – Flood Protection Information

Question 7. Based on the pages you see,  
would the website qualify for credit under WEB2?

# 350 – Flood Protection Information

Question 7. Based on the pages you see, would the website qualify for credit under WEB2?



If you hear a siren or a severe weather watch or warning, check the latest instructions on local radio and TV stations. Once the emergency management agencies are sure that the danger has passed, they will issue an "all clear" message. Remember: You may not get a flash flood warning before flooding actually begins. Play it safe in stormy weather.

## During a Flood - What You Should Do

Once you hear a flood watch or warning, you should take the following steps:

1. If the radio, television, or emergency vehicle announced what to do, **follow those instructions.**
2. If you suspect you are subject to **deep flooding**
  - a. Turn off the [electricity](#) and [gas](#)
  - b. Review [Flood Safety Outdoors](#)
  - c. Lock your doors and evacuate
3. While on the road, be sure to avoid flooded dangerous areas. Read [Flood Safety in Cars](#) of moving water and can be swept downstream. One reason floods kill more people trapped in vehicles.
4. **If the streets are underwater, you are better off walking than driving.** Read [Flood Safety Indoors](#)

For full credit, the following must be covered:

- Flood warning signals,
- Where the flood will or is likely to go (e.g. basements, attics, etc.)
- Evacuation routes,
- Flood safety precautions, and
- Shelter locations, including special-needs

5. If you don't have a place on high ground where you can stay, listen to the radio or TV for information on public shelters.

# 350 – Flood Protection Information

Question 8. Based on the pages you see,  
would the website qualify for credit under WEB3?

# 350 – Flood Protection Information

Question 8. Based on the pages you see, would the website qualify for credit under WEB3?

## Little Calumet River Flood Levels

Flood heights have been recorded since 1947 on a river gage that is currently located at the Cottage Grove Avenue bridge over the Little Calumet River. Recorded flood heights can be shown in stage or in elevation. Stage is measured in feet above an arbitrary starting point that was set when the gage was first installed. Elevations are in feet above sea level. Stage of zero on this gage is the same as an elevation of 575.0 feet above sea level.

"Flood stage" is the elevation where the rising river starts to damage property. Yards and parks are flooded when the river reaches an elevation of approximately 590 feet above sea level. Buildings are affected at approximately 593 feet.

Using the 2000 Cook County Flood Insurance Study, the 10-year flood at Cottage Grove would reach a stage of 19.4 and an elevation of 594.4. The 100-year flood figures are 23.0 and 598.0.

In 2005, the National Weather Service issued a new "flood stage" level – 16.5 feet or an elevation of 591.5. The Weather Service also provides real time stage data for the upstream river gauges on the [Little Calumet River](#) at South Holland, and on [Thorn Creek](#) at Thornton.

<u>Stage</u>	<u>Elevation</u>	<u>Event</u>
26.5 --	-- 601.5	500-year flood
23.0 --	-- 598.0	100-year flood
22.0 --	-- 597.0	50-year flood
20.8 --	-- 595.8	11/27/90
20.2 --	-- 595.2	6/14/81
20.1 --	-- 595.1	7/14/57
20.0 --	-- 595.0	7/20/96
19.6 --	-- 594.6	12/3/82
19.4 --	-- 594.4	10-year flood
19.2 --	-- 594.2	4/6/47
19.1 --	-- 594.1	2/21/97
19.0 --	-- 594.0	Water reaches buildings on Drexel
18.6 --	-- 593.6	6/2/89
18.2 --	-- 593.3	10/10/54
18.0 --	-- 593.0	Thorn Creek begins to cover 170th Street.
17.9 --	-- 592.9	2/24/85. Water covers Riverview and Drexel
17.7 --	-- 592.7	12/27/65
17.0 --	-- 592.0	Flood warning issued
16.0 --	-- 591.0	Flood watch starts

Yes

# 350 – Flood Protection Information

Question 9. Based on the pages you see,  
would the website qualify for credit under WEB4?



# 350 – Flood Protection Information

Question 9. Based on the pages you see, would the website qualify for credit under WEB4?

## Elevation Certificates

If your property is in Special Flood Hazard Area, i.e., the area shown on the [Floodplain Map](#), and you want to buy a flood insurance policy, you may need to give the insurer a FEMA Elevation Certificate. This form is completed by a surveyor and it shows all the data needed to write a policy as the elevation of the base flood and the elevation of the house's lowest floor.

Under the Village's [Floodplain Rules](#), a completed Elevation Certificate is also needed as a condition of constructing a new house or a substantial improvement to an existing building.

The Village's Planning and Development Department (210-2915) has some Elevation Certificates on file from earlier construction permits. If you have a property in the regulatory floodplain shown on the [Floodplain Map](#), check with the Department before you pay for a new survey.

The form is titled "ELEVATION CERTIFICATE" and is issued by the U.S. Department of Homeland Security, Federal Emergency Management Agency. It includes the following sections:

- SECTION A - PROPERTY INFORMATION:** Building Owner's Name: William Smith; Building Address: 2202 Woodbridge Road, Floodville, MO 64745; Building Type: Residential; Building Height: 10.00 ft.
- SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION:** Community Name: Floodville; Community Number: 123456; Flood Zone: AE; Flood Date: 5/18/00; Flood Panel: A15; Base Flood Elevation: 1142.8.
- SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED):** Building elevation based on: Construction Drawing; Building Under Construction: No; Finished Construction: Yes; Elevation: James A-1-A1, AE, AH, A (with FE), VE, V1-V3, V (with FE), AR, AR1, AR2, AR3, AR4, AR5, AR6, AR7, AR8, AR9, AR10, AR11, AR12, AR13, AR14, AR15, AR16, AR17, AR18, AR19, AR20, AR21, AR22, AR23, AR24, AR25, AR26, AR27, AR28, AR29, AR30, AR31, AR32, AR33, AR34, AR35, AR36, AR37, AR38, AR39, AR40, AR41, AR42, AR43, AR44, AR45, AR46, AR47, AR48, AR49, AR50, AR51, AR52, AR53, AR54, AR55, AR56, AR57, AR58, AR59, AR60, AR61, AR62, AR63, AR64, AR65, AR66, AR67, AR68, AR69, AR70, AR71, AR72, AR73, AR74, AR75, AR76, AR77, AR78, AR79, AR80, AR81, AR82, AR83, AR84, AR85, AR86, AR87, AR88, AR89, AR90, AR91, AR92, AR93, AR94, AR95, AR96, AR97, AR98, AR99, AR100.