Coastal SC CRS Users Group
The Community Rating System (CRS)
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Coastal Communities
ISO/CRS Specialist

February 2017
CRS Updates
Upcoming CRS Cycles

Folly Beach
Beaufort County
Charleston County
North Myrtle Beach
Myrtle Beach

City of Beaufort
Berkeley County
Edisto Beach
City of Georgetown
North Charleston
Seabrook Island
Program Data Table

1. Area of SFHA (acres)
   – Delete Federal Lands
   – Delete Large Bodies of Water

2. Number of Buildings in SFHA
   – Insurable Structures
   – No pools, garages, accessory structures

PDT starts with first cycle under 2013/2017 Manual and is updated at following recertifications
CRS Credit Criteria:

1. Maintain completed “Finished Construction” ECs:
   - for all new buildings
   - and substantial improvements/substantial damage
   - in the SFHA

2. Review for correctness: See Correction Checklist
   (Coordinator’s Manual pages 310-7 & 8)

3. Make copies of ECs available to public
ELEVATION CERTIFICATES

Activity 310

Cycle Visit – list of permits for previous 5 years
Random selection of 30 ECs to submit
Annual Recertification – copies of all ECs

Include v-zone certifications and Engineered Flood Opening Certifications
310 Elevation Certificates

CRS Credit Criteria:

At least 90% of the community’s certificates must be correct.

If less than 90% of the certificates pass the community must correct them to stay in the CRS.

The credit for EC is based on the review of certificates submitted for the verification visit.

It will not change after the community makes the needed corrections.
[Community letterhead]

Memo of Review for Accuracy and Completion

The attached FEMA Elevation Certificate has been reviewed by this office. The items noted below are not correct on the attached form and should read as entered on this page.

**SECTION A – PROPERTY INFORMATION**

<table>
<thead>
<tr>
<th>A1. Building Owner’s Name</th>
<th>FOR: INSURANCE COMPANY USE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Policy Number:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or PO. Route and Box No.</th>
<th>Company NAIC Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
<td>State</td>
</tr>
<tr>
<td>ZIP Code</td>
<td></td>
</tr>
</tbody>
</table>

| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)       |

<table>
<thead>
<tr>
<th>A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>A5. Latitude/Longitude: Lat. ___________________________ Long. ___________________________</th>
<th>Horizontal Datum:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NAD 1927</td>
</tr>
</tbody>
</table>

| A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. |

| A7. Building Diagram Number | | |

<table>
<thead>
<tr>
<th>A8. For a building with a crawlspace or enclosure(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Square footage of crawlspace or enclosure(s) ______ sq ft</td>
</tr>
<tr>
<td>b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade ______ sq in</td>
</tr>
<tr>
<td>c) Total net area of flood openings in A8.b ______ sq in</td>
</tr>
<tr>
<td>d) Engineered flood openings? ☐ Yes ☐ No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A9. For a building with an attached garage:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Square footage of attached garage ______ sq ft</td>
</tr>
<tr>
<td>b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade ______ sq in</td>
</tr>
<tr>
<td>c) Total net area of flood openings in A9.b ______ sq in</td>
</tr>
<tr>
<td>d) Engineered flood openings? ☐ Yes ☐ No</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>B1. NFIP Community Name &amp; Community Number</th>
<th>B2. County Name</th>
<th>B3. State</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>B4. Map/Panel Number</th>
<th>B5. Suffix</th>
<th>B6. FIRM Index Date</th>
<th>B7. FIRM Panel Effective/Revised Date</th>
<th>B8. Flood Zone(s)</th>
<th>B9. Base Flood Elevation(s) (Zone AO, use base flood depth)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B11. Indicate elevation datum used for BFE in Item B9:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ NAVD 1929 ☐ NAVD 1988 ☐ Other/Source:</td>
</tr>
</tbody>
</table>
320 Map Information Service—Summary

Maximum credit: 90 points

322 Elements

a. **Basic FIRM information (MI1):** 30 points for providing basic information found on a Flood Insurance Rate Map (FIRM) that is needed to accurately rate a flood insurance policy.

b. **Additional FIRM information (MI2):** 20 points for providing information that is shown on most FIRMs, such as protected coastal barriers, floodways, or lines demarcating wave action.

c. **Problems not shown on the FIRM (MI3):** Up to 20 points for providing information about flood problems other than those shown on the FIRM.

d. **Flood depth data (MI4):** Up to 20 points for providing information about flood depths.

e. **Special flood-related hazards (MI5):** Up to 20 points for providing information about special flood-related hazards, such as erosion, ice jams, or tsunamis.

f. **Historical flood information (MI6):** Up to 20 points for providing information about past flooding at or near the site in question.

g. **Natural floodplain functions (MI7):** Up to 20 points for providing information about areas that should be protected because of their natural floodplain functions.
### Log of Walk-in and Telephone Map Information Inquiries

<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Address</th>
<th>Panel</th>
<th>Zone</th>
<th>Insurance Information</th>
<th>Coastal A Zone or CBRS</th>
<th>Depth of BFE</th>
<th>Rep loss Area?</th>
<th>Sensitive for wetland</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>W</td>
<td>201 W. Main</td>
<td>000B</td>
<td>AE</td>
<td>734</td>
<td>#</td>
<td>4.5</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>24</td>
<td>7</td>
<td>301 W. Main</td>
<td>000B</td>
<td>A</td>
<td>74A</td>
<td>#</td>
<td>4.5</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>24</td>
<td>7</td>
<td>401 S. Bayou</td>
<td>000B</td>
<td>AE</td>
<td>737</td>
<td>#</td>
<td>4.0</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>25</td>
<td>L</td>
<td>401 E. Marion</td>
<td>000B</td>
<td>A</td>
<td>74A</td>
<td>#</td>
<td>4.5</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>25</td>
<td>W</td>
<td>3rd &amp; State</td>
<td>000B</td>
<td>AE</td>
<td>730</td>
<td>#</td>
<td>&lt;1</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Example of required publicity:**

If you want to know if a property is in the Special Flood Hazard Area, check our website at [www.example.org/flood/mapinfo](http://www.example.org/flood/mapinfo). You'll find a wealth of information about the City's Flood Insurance Rate Map, coastal high hazard areas, flood depths at your property, natural conservation areas and wetlands, flood insurance, special rules for building in the floodplain, and ideas for protecting your property from flood damage. Or you can call the Building Department with all of your floodplain questions at 555-123-4567. We also have copies of FEMA Elevation Certificates on all buildings constructed or substantially improved in the floodplain since January 1995.

**Figure 320-1** A sample log for a map information service.

*(Page 320-5)*
320 Map Information Service

About the Mandatory Purchase of Flood Insurance

The NFIP: The National Flood Insurance Program (NFIP) is a federal program enabling property owners in participating communities to purchase flood insurance on eligible buildings and contents, whether they are in or out of a floodplain. This community participates in the NFIP, making federally backed flood insurance available to its property owners.

The NFIP insures most walled and roofed buildings that are principally above ground on a permanent foundation, including mobile homes, and buildings in the course of construction. Property owners can purchase building and contents coverage from any local property and casualty insurance agent. To find a local insurance agent that writes flood insurance in your area visit www.floodsmart.gov.

Mandatory Purchase Requirement: Pursuant to the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994, the purchase of flood insurance is mandatory for all federal or federally related financial assistance for the acquisition and/or construction of buildings in Special Flood Hazard Areas (SFHAs). An SFHA is defined as any A or V flood zone on a Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM).

The mandatory purchase requirement also applies to secured loans from such financial institutions as commercial lenders, savings and loan associations, savings banks, and credit unions that are regulated, supervised, or insured by federal agencies, such as the Federal Reserve, the Federal Deposit Insurance Corporation, the Comptroller of Currency, the Farm Credit Administration, the Office of Thrift Supervision, and the National Credit Union Administration. It further applies to all loans purchased by Fannie Mae or Freddie Mac in the secondary mortgage market.

Federal financial assistance programs affected by the laws include loans and grants from agencies such as the Department of Veterans Affairs, Farmers Home Administration, Federal Housing Administration, Small Business Administration, and FEMA disaster assistance.

How it Works: When making, increasing, renewing, or extending any type of federally backed loan, lenders are required to conduct a flood zone determination using the most current FEMA FIRM to determine if any part of the building is located in an SFHA. If the building is in an SFHA, the federal agency or lender is required by law to provide written notification to the borrower that flood insurance is mandatory as a condition of the loan. Even though a portion of real property on which a building is located may lie within an SFHA, the purchase and notification requirements do not apply unless the building itself, or some portion of the building, is in the SFHA. However, lenders, on their own initiative, may require the purchase of flood insurance even if a building is located outside an SFHA. Up to 25% of all NFIP flood losses arise from outside SFHAs (B, C, and X Zones).

Under federal regulations, the required coverage must equal the amount of the loan (excluding appraised value of the land) or the maximum amount of insurance available from the NFIP, whichever is less. The maximum amount of coverage available for a single-family residence is $250,000 and for non-residential (commercial) buildings is $500,000. Federal agencies and regulators, including government-sponsored enterprises, such as Freddie Mac and Fannie Mae, may have stricter requirements.

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[Community Letterhead]

Date: ____________________
RE: Flood Hazard Information
TO WHOM IT MAY CONCERN:

The property located at: ____________________ (legal description if needed) has been located on the city’s Flood Insurance Rate Map (FIRM). The following information is provided:

Community ID or NFIP number: 123456
The property is located on panel number: __________, Suffix: __________.
The date of the FIRM index: May 15, 2005.
The property is located in FIRM zone: __________.
The main building on the property:
____ IS located in a Special Flood Hazard Area. The base flood elevation at the property is ________ NAVD. Federal law requires that a flood zone determination be done as a condition of a federally backed loan to determine if the structure is in an SFHA and if so, to require flood insurance. This letter is not to be considered a flood zone determination. It is up to the lender to determine whether flood insurance is required for a property.
____ IS NOT located in a Special Flood Hazard Area. However, the property may still be subject to local drainage problems or other unmapped flood hazard. Flood insurance from the National Flood Insurance Program (NFIP) is available at non-floodplain rates. A flood insurance policy can still be required for a loan.
A decision about the building’s exact location can be made on the FIRM. A copy of the FIRM is attached for your information.

Flood insurance from the NFIP is available for any property in this city. More information on flood insurance is attached. This office has copies of FEMA Elevation Certificates for all buildings constructed in the SFHA since 1990. Questions about this letter or about the City’s floodplain management program are welcome at this office by calling 555-123-1234.

NOTE: This information is based on the Flood Insurance Rate Map for the City. This letter does not imply that the referenced property will or will not be free from flooding or damage. A property not in a Special Flood Hazard Area may be damaged by a flood greater than that predicted on the FIRM or from a local drainage problem not shown on the map.

______________________________
Building Official

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Figure 320-3: A handout about the mandatory purchase of flood insurance.

Figure 320-2: A sample map information record for MH1.
330 – Outreach Projects

Messages

Clearly state what the audience should do

“Get a floodplain permit from…”
“Buy flood insurance contents coverage”
“Turn Around Don’t Drown”
“Keep debris and trash out of streams and ditches”
“Your property is subject to flooding. Check with the City to find out your flood zone”
“No pollutants down the storm drains; they drain to the bay”
330 Outreach Projects

Without PPI

Outreach Projects – OP – Distributed Every Year
Max credit 200 points

6 Topics
- Know your Flood Hazard
- Insure your property (Min. 1 project)
- Protect people from hazard
- Protect property from hazard
- Build responsibly
- Protect natural floodplain functions

Informational Material – 1 pt per topic
- Brochures at permit office
- Handouts

General Outreach – 2 pts per topic
- Presentations to civic groups
- Newspaper inserts
- Signs – “Don’t dump”
330 Outreach Projects

330 Outreach Summary

OP#  1
Type:  Targeted to RL Properties
Description: RL outreach sent to all properties in RL areas annually
Distribution: Sent annually in August

OP#  2
Type:  General
Description: Map information service publicity sent to all Realtors, Lenders and Insurance Agents
Distribution: Sent annually in January to all Realtors, Lenders and Insurance Agents in town

OP#  3
Type:  General
Description: Catch basin message “Dump no waste! Flows to the river”
Distribution: On all catch basins in town

OP#  4
Type:  General
Description: Man hole cover message “dump no waste – drains to waterways”
Distribution: On all manhole covers in town

OP#  5
Type:  Informational
Description: City of Jacksonville Flood Zones Booklet
Distribution: In brochure racks at the entrance to City Hall and by the Planning and Permitting Department

OP#  6
Type:  General
Description: City of Jacksonville Flood Zones Booklet
Distribution: Booklet handed out to visitors at annual Hurricane and Severe Weather Expo
330 Outreach Projects

Informational Outreach Project – 1 point per topic
25 Brochures – minimum 25 points
Brochure Rack at 5 locations (max) 25 x 5 = 125 points
330 Outreach Projects

Without PPI

Outreach Projects – OP – Distributed Every Year
Max credit 200 points

Targeted Outreach - 6 pts per topic
• must reach entire targeted audience
• must clearly explain that the recipient is receiving the information because they are a part of the targeted audience

6 Topics
• Know your Flood Hazard
• Insure your property (min 1 Project)
• Protect people from hazard
• Protect property from hazard
  • Build responsibly
• Protect natural floodplain functions

Targeted Audiences
SFHS Residents Rep Loss Area Residents
Residents protected by Levee Residents protect by upstream dam
Residents affected by a Special Flood-Related Hazard
330 Outreach Projects

FRP – Flood Response Preparations – max 50 points

EXAMPLES
Media kit with information for reporters
Radio public service announcements
Door hangers for flooded homes
Handouts on grant programs
Handouts on permit procedures, site clean-up, etc.

SUBMITTAL
• Copy of masters for handouts, news releases, projects
• Written procedures that explain how projects are disseminated
• Documentation that materials are reviewed annually to determine if they are still current and appropriate
350 Flood Protection Information

LIB – 10 Listed Library Books

LPD – 10 Locally Pertinent Documents

Ordinances
Hazard Mitigation Plan
Hurricane Information
Flood Maps
FIS
420 Open Space Preservation

DOCUMENTATION

- Area of SFHA
- Map showing open space parcels in SFHA
- Master list of OS parcels with a description of the parcel and the acreage in SFHA
- Aerial views of the 10 largest properties
Onslow County Activity 420

<table>
<thead>
<tr>
<th>Key</th>
<th>Type</th>
<th>Description</th>
<th>Acres in SFHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conservation Zoning</td>
<td>Hammocks Beach State Park Area (less than 0.62 acres impervious area)</td>
<td>1,437.10</td>
</tr>
<tr>
<td>2</td>
<td>Conservation Zoning</td>
<td>Conservation zoning area - Hubert - Haybridge Drive</td>
<td>25.36</td>
</tr>
<tr>
<td>3</td>
<td>Easement</td>
<td>North Carolina Coastal Federation Easement</td>
<td>62.23</td>
</tr>
<tr>
<td>4</td>
<td>Park</td>
<td>County Park - Hubert Bypass</td>
<td>14.17</td>
</tr>
<tr>
<td>5</td>
<td>Easement</td>
<td>US Fish and Wildlife Service Easement</td>
<td>1.72</td>
</tr>
<tr>
<td>6</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Hunters Creek</td>
<td>83.99</td>
</tr>
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<td>7</td>
<td>Parks</td>
<td>School - Morton Elementary School</td>
<td>1.21</td>
</tr>
<tr>
<td>8</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Towne Pointe</td>
<td>21.84</td>
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<td>9</td>
<td>Easement</td>
<td>NC Clean Water Management Trust Fund Easement</td>
<td>275.44</td>
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<td>10</td>
<td>Easement</td>
<td>NC Clean Water Management Trust Fund Easement</td>
<td>56.62</td>
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<tr>
<td>11</td>
<td>State Land</td>
<td>NC Wildlife Resources Commission</td>
<td>748.56</td>
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<td>12</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Hofmann Forest</td>
<td>9,633.33</td>
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<tr>
<td>13</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - County Richlands Steed Park</td>
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<tr>
<td>14</td>
<td>Parks</td>
<td>Golf Course - Rock Creek</td>
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<td>15</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Oakhurst Nature Park</td>
<td>644.00</td>
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<tr>
<td>16</td>
<td>School</td>
<td>Blue Creek Elementary School</td>
<td>3.75</td>
</tr>
<tr>
<td>17</td>
<td>School</td>
<td>Southwest High School</td>
<td>5.00</td>
</tr>
<tr>
<td>18</td>
<td>School</td>
<td>Southwest Elementary School</td>
<td>18.57</td>
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<td>19</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Butterfield Way</td>
<td>29.42</td>
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<tr>
<td>20</td>
<td>State Land</td>
<td>Stones Creek Game Land</td>
<td>29.20</td>
</tr>
<tr>
<td>21</td>
<td>Conservation Zoning</td>
<td>Sandy Run Savanas State Natural Area and NCDOT Mitigation land</td>
<td>209.45</td>
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<td>22</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Stones Creek Game Land</td>
<td>29.73</td>
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<td>23</td>
<td>Owned by Conservation Entity</td>
<td>North Carolina Coastal Land Trust Preserve</td>
<td>6.01</td>
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<td>24</td>
<td>Conservation Zoning</td>
<td>Conservation zoning - I-95 Bridge</td>
<td>333.76</td>
</tr>
<tr>
<td>25</td>
<td>Parks</td>
<td>North Shore Golf Course</td>
<td>90.92</td>
</tr>
<tr>
<td>26</td>
<td>Conservation Zoning</td>
<td>Conservation Zoning - Along I-95</td>
<td>202.96</td>
</tr>
<tr>
<td>27</td>
<td>FEMA Buyouts</td>
<td>Hazard Mitigation Grant Program</td>
<td>34.54</td>
</tr>
</tbody>
</table>

Total Area: 14,930.18
420 Open Space Preservation

Onslow County Activity 420

Legend
- OGP Areas
- Hofmann Forest
- Municipal or Federal Jurisdiction

Key
1. Conservation
   Zoning
   Description: Hammocks Beach State Park Area (less 0.62 acres impervious area)
   Acres in SFHA: 1,437.10
2. Conservation
   Zoning
   Description: Conservation zoning area - Hubert - Hybridge Drive
   Acres in SFHA: 25.36
3. Easement
   Description: North Carolina Coastal Federation Easement
   Acres in SFHA: 62.23
4. Park
   Description: County Park - Hubert Bypass
   Acres in SFHA: 14.17
5. Easement
   Description: US Fish and Wildlife Service Easement
   Acres in SFHA: 1.72
6. Conservation
   Zoning
   Description: Conservation Zoning - Hunters Creek
   Acres in SFHA: 81.99
7. Parks
   Description: School - Morston Elementary School
   Acres in SFHA: 1.21
8. Conservation
   Zoning
   Description: Conservation Zoning - Towne Pointe
   Acres in SFHA: 21.84
9. Easement
   Description: NC Clean Water Management Trust Fund Easement
   Acres in SFHA: 275.44
10. Easement
    Description: NC Clean Water Management Trust Fund Easement
    Acres in SFHA: 56.62
11. State Land
    Description: NC Wildlife Resources Commission
    Acres in SFHA: 748.56
12. Conservation
    Zoning
    Description: Conservation Zoning - Hofmann Forest
    Acres in SFHA: 9,611.33
13. Conservation
    Zoning
    Description: Conservation Zoning - County Richlands
    Acres in SFHA: 71.25
14. Parks
    Description: Golf Course - Rock Creek
    Acres in SFHA: 58.81
15. Conservation
    Zoning & Parks
    Description: Conservation Zoning - Oakhurst Nature Park
    Acres in SFHA: 641.06
16. School
    Description: Blue Creek Elementary School
    Acres in SFHA: 3.75
17. School
    Description: Southwest High School
    Acres in SFHA: 5.08
18. School
    Description: Southwest Elementary School
    Acres in SFHA: 19.57
19. Conservation
    Zoning
    Description: Conservation Zoning - Rutherford Way
    Acres in SFHA: 29.42
20. State Land
    Description: Stoners Creek Game Land
    Acres in SFHA: 29.29
21. Conservation
    Zoning/State
    Land
    Description: Sandy Run Savanas State Natural Area and NCDOT mitigation land
    Acres in SFHA: 309.45
22. Conservation
    Zoning/State
    Land
    Description: Conservation Zoning - Stoners Creek Game Land
    Acres in SFHA: 28.73
23. Owned by
    Conservation
    Entity
    Description: North Carolina Coastal Land Trust Preserve
    Acres in SFHA: 6.01
24. Conservation
    Zoning
    Description: Conservation Zoning - ICW Bridge
    Acres in SFHA: 333.76
25. Parks
    Description: North Shore Golf Course
    Acres in SFHA: 90.92
26. Conservation
    Zoning
    Description: Conservation Zoning - Along ICW
    Acres in SFHA: 292.98
27. FEMA Buyouts
    Description: Hazard Mitigation Grant Program
    Acres in SFHA: 31.55

Total Area: 14,300.18
420 Open Space Preservation

<table>
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<tr>
<th>Name</th>
<th>Acres</th>
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</thead>
<tbody>
<tr>
<td>Tom Yawkey Wildlife Refuge</td>
<td>19,476</td>
</tr>
<tr>
<td>Hobcaw Barony Wildlife Refuge</td>
<td>12,775</td>
</tr>
<tr>
<td>Brookgreen Gardens</td>
<td>1,161</td>
</tr>
<tr>
<td>Santee Delta and Santee Coastal Reserve WMA</td>
<td>6,800</td>
</tr>
<tr>
<td>Arcadia Plantation</td>
<td>1,260</td>
</tr>
<tr>
<td>Huntington Beach State Park</td>
<td>2,105</td>
</tr>
<tr>
<td>Pawleys Island South End</td>
<td>0.5</td>
</tr>
<tr>
<td>Beach Area</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Total Area: 43,794.5 acres

Legend
Protected Lands
Name
- Tom Yawkey Wildlife Refuge
- Hobcaw Barony Wildlife Refuge
- Brookgreen Gardens
- Santee Delta / Santee Coastal Reserve WMA
- Arcadia Plantation
- Huntington Beach State Park
- Pawleys Island South End

Map credit: USGS/NFIP/CBS

1300 W. Ashley Rd., Charleston, SC 29403
(803) 768-6261
www.floodmaps.nfip.gov
420 Open Space Preservation

- Tom Yawkey Wildlife Refuge: 10.474 acres
- Hebron Library Wildlife Refuge: 12.775 acres
- Brookgreen Gardens: 1.161 acres
- Sandy Dunes and Cooper Coastal Reserve WM: 6.000 acres
- Arcadia Plantation: 1.260 acres
- Huntington Beach State Park: 2.105 acres
- Pawleys Island South End: 0.5 acres
- Beach Area: 157 acres

Total Area: 45,784.5 acres

Legend:
- Protected Lands
  - Tom Yawkey Wildlife Refuge
  - Hebron Library Wildlife Refuge
  - Brookgreen Gardens
  - Sandy Dunes / Cooper Coastal Reserve WM
  - Arcadia Plantation
  - Huntington Beach State Park
  - Pawleys Island South End
  - UPHA
430 Higher Regulatory Standards

Consider Ordinance Updates when adopting New flood maps
501 Repetitive Loss Areas

Repetitive Loss Worksheet

a. Description of the cause(s) of repetitive flooding

b. Map identifying repetitive loss AREA(S)

c. Address list of all properties in the RL area(s) with insurable buildings on them

d. The number of buildings in the repetitive loss area(s)
501 Repetitive Loss Areas

Repetitive Loss Outreach Project

e. Annual outreach project that
(a) Tells recipient of the flood hazard
(b) Explains property protection measures
(c) Covers sources of financial assistance
(d) Includes basic facts about flood insurance

Send to all properties in the rep loss AREAS

(HINT – include all 6 topics for max credit for targeted outreach – 36 points)
To receive any 610 credit the community must receive some credit for FTR - Flood Treat Recognition, EWD - Early Warning Dissemination, FRO - Flood Response Operations and CFP - Critical Facilities Planning.

- The community must have a description of its flood hazard (HMP).
- There must be a flood inundation map – 3 levels (SLOSH).
- There must be an adopted flood warning and response plan.
- There must be one or more outreach projects on the warning and safety precautions.
- There must be an annual exercise of the plan with a lessons-learned report (AAR).
- Must provide a list of critical facilities operational during a flood event with contact information.
610 Flood Warning

Prerequisite:
Outreach to residents and businesses on how they will be warned and safety measures they should take

- Outreach sent to everyone in community
- Outreach sent to everyone in SFHA
- PPI – designated appropriate approach

Flash Flood Safety Facts
Flash floods in Clark County most often result from high intensity, short duration storms, typically in middle to late summer. Although flooding has been experienced every month of the year, May through September is considered flash flood season throughout Southern Nevada.
Localized storm activity can cause severe flooding in very limited areas. The desert’s unique weather and soil conditions increase the chances for flooding, and unseen rainfall in the mountains may take hours or even days to reach our valley’s washes or floodways.

The majority of flood-related deaths in Clark County have resulted from attempts to cross flooded wash areas or streets. Children have died in dry washes from collapsing dirt. Even walking through shallow fast-moving flood water can prove fatal. Flood waters are always dangerous and should always be avoided.

Don’t get swept away.

Flash Floods Kill!

Important information on flooding, flood insurance and flood control projects from the Clark County Regional Flood Control District.
QUESTIONS?