

Why Use the Green Guide?

CRS for Community
Resilience

| 300 Series | 412.e: More-restrictive floodway standard | 500 Series | |
|---|--|--|--|
| Public Information Activities | 412.f: Mapping of SFHA | Flood Damage Reduction Activities | |
| 312.a: Maintaining Elevation Certificates | 422.a: Open space preservations | 512.a: Floodplain management planning | |
| 312.b: Maintaining Elevation Certificates for post-FIRM | | | |
| puildings | 422.b: Deed restrictions | 512.b: Repetitive loss area analysis | |
| 312.c: Maintaining Elevation Certificates for pre-FIRM | | | |
| puildings | 422.c: Natural functions open space | 512.c: Natural floodplain functions plan | |
| 322.a: Basic FIRM information | 422.d: SFHA open space | 522.a: Buildings acquired or relocated | |
| 322.b: Additional FIRM information | 422.e: Coastal erosion open space | 522.b: Buildings on the repetitive loss list | |
| 322.c: Other flood problems not shown on the FIRM | 422.f: Open space incentives | 522.c: Severe Repetitive Loss properties | |
| 322.d: Flood depth data | 422.g: Low density zoning | 522.d: Critical facilities | |
| 322.e: Special flood-related hazards | 422.h: Natural shoreline protection | 522.e: Buildings located in the V or coastal A Zone | |
| 322.g: Natural floodplain functions | 432.a: Development Limitations | 532.a: Flood protection project technique used | |
| 332.a: Outreach Projects | 432.b: Freeboard | 532.b: Flood protection improvement | |
| 332.b: Flood response preparations | 432.c: Foundation protection | 532.c: Protected buildings | |
| 332.c: Program for Public Information | 432.d: Cumulative substantial improvements | 542.a: Channel debris removal | |
| 332.d: Stakeholder delivery | 432.e: Lower substantial improvements | 542.b: Problem site maintenance | |
| 342.a: Disclosure of flood hazard | 432.f: Protection of critical facilities | 542.c: Capital improvement program | |
| 342.b: Other disclosure requirements | 432.g: Enclosure limits | 542.d: Stream dumping regulations | |
| 342.c: Real estate agents' brochure | 432.h: Building code | 542.e: Storage basin maintenance | |
| 342.d: Disclosure of other hazards | 432.i: Local drainage protection | 600 Series | |
| 352.a: Flood protection library | 432.j: Manufactured home parks | Warning and Response | |
| 352.b: Locally pertinent documents | 432.k: Coastal A Zones | 612.a: Flood threat recognition system | |
| 352.c: Flood protection website | 432.I: SFHA regulations | 612.b: Emergency warning dissemination | |
| 362.a: Property protection advice | 432.m: Tsunami hazard regulations | 612.c: Flood response operations | |
| 362.b: Protection advice provided after site visit | 432.n: Coastal erosion hazard regulations | 612.d: Critical facilities planning | |
| 362.c: Financial assistance advice | 432.o: Other higher standard | 612.e: StormReady community | |
| 362.d: Advisor training | 432.p: State-mandated regulatory standards | 612.f: TsunamiReady community | |
| 372.a: Flood insurance coverage assessment | 432.q: Regulations administration | 622.a: Levee maintenance | |
| 372.b: Coverage improvement plan | 442.a: Additional map data | 622.b: Levee failure threat recognition system | |
| 372.c: Coverage improvement plan implementation | 442.b: FIRM maintenance | 622.c: Levee failure warning | |
| 372.d: Technical assistance | 442.c: Benchmark maintenance | 622.d: Levee failure response operations | |
| 400 Series | 442.d: Erosion data maintenance | 622.e: Levee failure critical facilities planning | |
| Mapping and Regulations | 452.a: Storm water management regulations | 632.a: State dam safety program | |
| 112.a: New study | 452.b: Watershed master plan | 632.b: Dam failure threat recognition system | |
| 112.b: Leverage | 452.c: Erosion and sedimentation control regulations | | |
| 112.c: State review | 452.d: Water quality regulations | 632.d: Dam failure response operations | |
| 112.d: Higher study standards | | 632.e: Dam failure critical facilities planning | |

| Element Name | Possible Points | Element Name | Possible Points |
|---|--------------------|---|-----------------|
| 322.g. Natural Floodplain Functions | 20 | 432.a. Development Limitations | 1,330 |
| 332.a. Outreach Projects | 200 | 432.I. SFRH Regulations, Inland | 100 |
| 332.d. Stakeholder Delivery | 50 | 432.m. SFHR Regulations, Coastal | 370 |
| 412.e. More Restrictive Floodway Standard | 140 | 442.d. Erosion Data Maintenance | 20 |
| 422.a. Open Space Preservation | 1,450 | 452.a. Stormwater Management Regulations | 380 |
| 422.b. Deed Restrictions | 50 | 452.b. Watershed Master Plan | 315 |
| 422.c. Natural Functions Open Space | 350 | 452.c. Erosion and Sediment Control Regulations | 40 |
| 422.d. SFRH Open Space | 150 | 452.d. Water Quality Regulations | 20 |
| 422.e. Coastal Erosion Open Space | 750 | 512.c. Natural Floodplain Functions Plan | 100 |
| 422.f. Open Space Incentives | 250 | Activity 520 | 2,250 |
| 422.g. Low Density Zoning | 600 | 542.c. Capital Improvement Program | 70 |
| 422.h. Natural Shoreline Protection | 120 | | |
| CRS Green Guide, 2017 | | | Slide 3 |



Natural and Beneficial Functions (NBF)

- Creation of habitat for fish, fowl and wildlife, including many endangered species
- Enhanced air and water quality
- Groundwater recharge
- Restoration of natural ecosystems and ecosystem services
- More sustainable environment in your community
- Creation or enhancement of recreation opportunities





Natural and Beneficial Functions

Class 4 Status





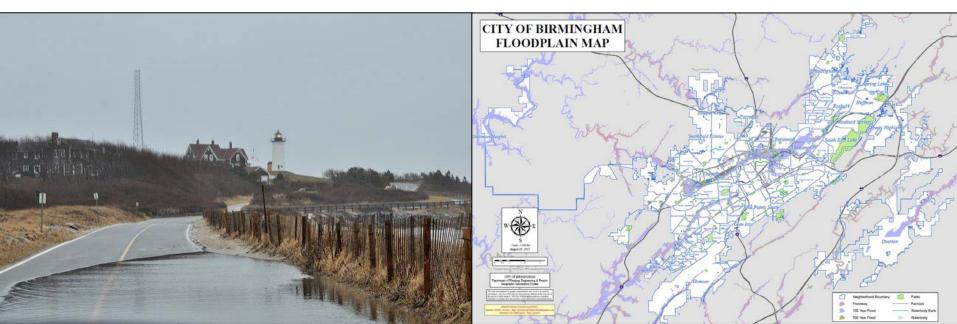
Class 1 Status





Why use the Green Guide?

- Receive stackable credits
- How to earn credit for state requirements
- Tips on documenting and calculating credits
- Best practices and success stories from actual communities





Receive Stackable Credits

Many of the credits earned for implementing measures that support natural and beneficial floodplain functions earn credit under several categories!



Image: Flood waters of the Illinois River at Cooper Park, East Peoria, IL

Stackable Credit:

Earning credit for multiple elements by completing and documenting one task (or several related tasks)

CRS Green Guide, 2017



Activities and Elements

- Explain technical information in plain language
- Overview of relevant impact adjustments
- Detailed Element profiles for each of the 25 Green Elements with natural and beneficial functions!

Impact Adjustment:

Ratio used to adjust the amount of credit your community receives for implementing an element

Usually calculated by taking area of regulatory floodplain affected by element divided by overall regulatory floodplain

CRS Green Guide, 2017 Slide 8



Tips on Documenting and Calculating Credits

- Each element profile outlines the difficulty level for implementation AND documentation.
- Difficulty levels verified by experts in the field.

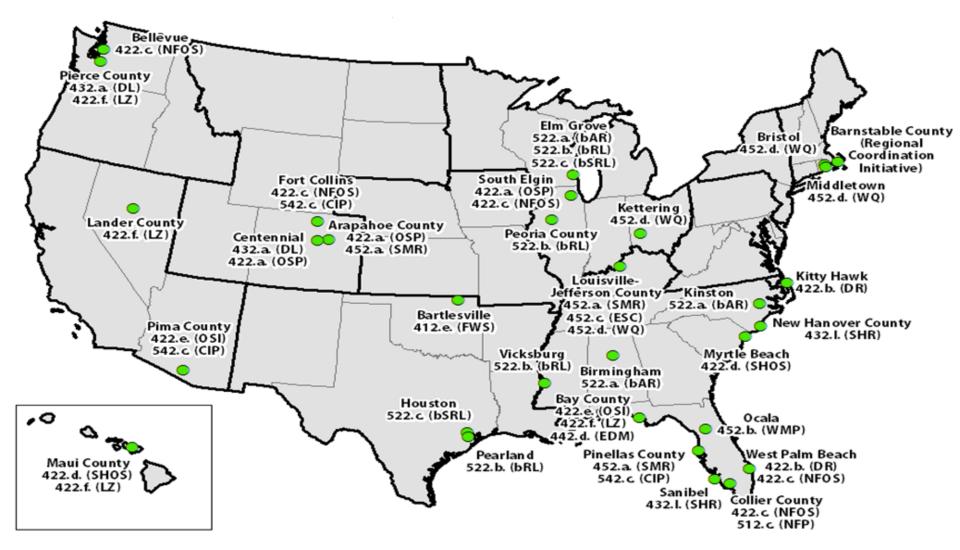






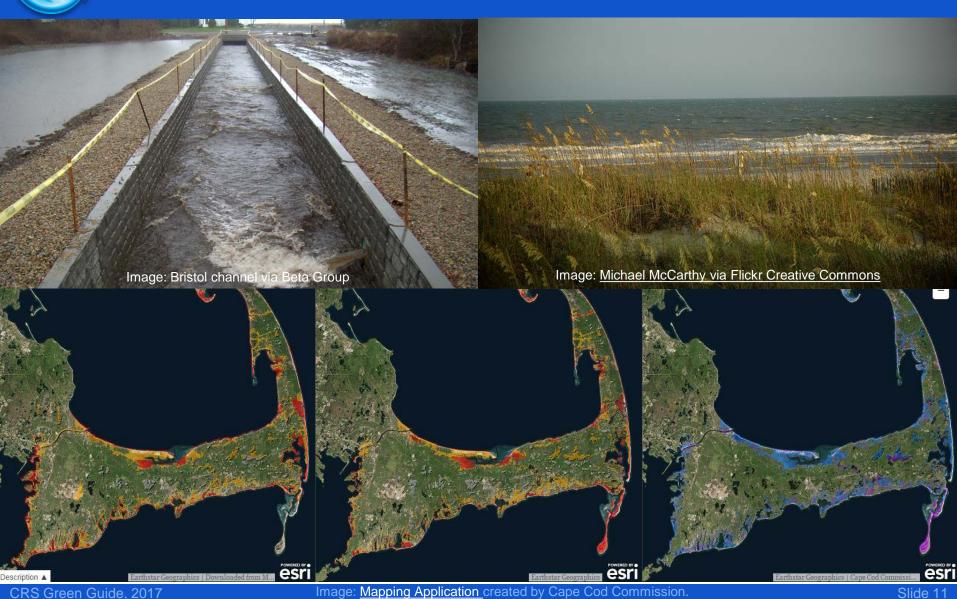


Best Practices and Success Stories





Best Practices





Existing Activities Eligible for Credit

- State Requirements
 - Mandatory freeboard
 - Zero-rise floodplain standards
 - Coastal management
- Local regulations, plans and permits!
 - Erosion and sediment control
 - Water quality
- Low density zoning

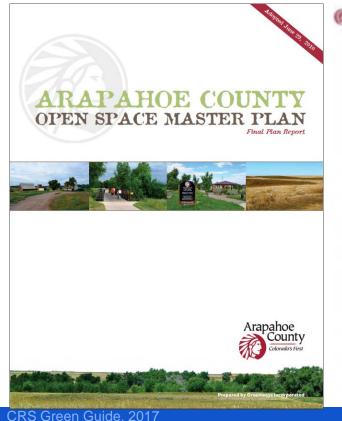


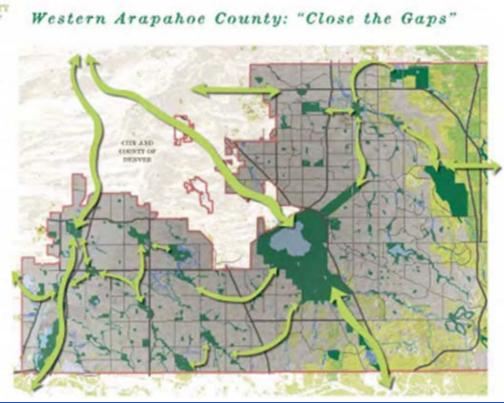
CRS Green Guide, 2017 Image from Louisville MSD. Slide 12



Be Ready!

Use existing plans to set a course for action and have funds on hand to take action when the opportunity is ripe.

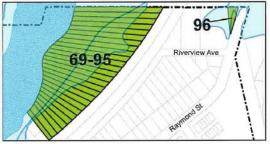


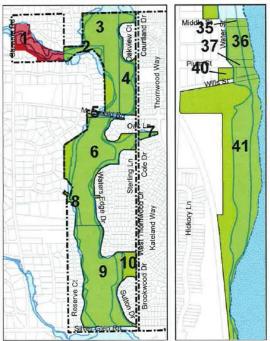


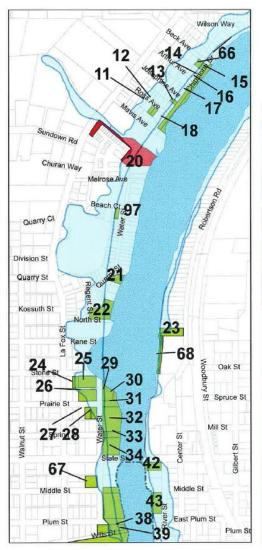


Invest in GIS















Inventory Property and Natural Resources in the Floodplain



CRS Green Guide, 2017



Have an Outreach Plan



Created by Bonegolem from Noun Project

- Address that audience's unique concerns
- Share information transparently
- Consensus-building
- Maximize mutual benefits: Protecting or realizing the interests of all stakeholders involved

CRS Green Guide, 2017 Slide 16



Other...

- Document things as they happen
- Build partnerships and relationships
- Increase administrative capacity
- Ensure CRS information is shared and transferred



Image from Pam Beach County, FL.



Image from Amber Gray, City of Birmingham, AL.

CRS Green Guide, 2017



CRS for Community Resilience Website

https://www.floodsciencecenter.org/ products/crs-community-resilience/ OR

- 1) Go to: https://www.floodsciencecenter.org
- 2) Click "Research Services" in upper righthand corner
- 3) Click "Featured Investigations" toward the bottom center part of page.
- 4) Click "CRS Green Guide"
- 5) Click "CRS for Community Resilience"

CRS Green Guide, 2017 Slide 1







CRS for Community Resilience

Green Guide

Element Profiles

Success Stories

Secure https://www.floodsciencecenter.org/products/crs-community-resilience/

Workshops

Webinars

CRS for Community Resilience

The goal of CRS for Community Resilience is to increase the number of communities making voluntary, effective measures to increase flood resilience. This project promotes CRS participation, provides guidance on actions that increase a community's rating, and works directly with communities to increase their resiliency through the CRS process.

This project aims to:

- 1. Get more communities to participate in the CRS, and
- 2. Increase resiliency by having a road map to undertake activities that strengthen the natural ecosystems and reduce growing vulnerability to floods

Have a question, recommendation or CRS success story of your own? Share it with us!











Resources

Read More

Resources pertaining to CRS for Community Resilience



help your community increase its CRS Rating and its

resiliency.



