

### Activity 420

**Open Space Preservation** 



### Links Between Open Space and Flood Losses

- Highfield and Brody –
   2012, 2013
- 450 CRS Communities
- Participating between 1999-2009
- 1 point increase in CRS under Activity 420 = savings of \$1,052-\$3,532 per year

See pages 420-1 to 420-3 of CRS Coordinator's Manual!





### **Background on Activity 420**

Maximum total credit available: 2,020 points



#### **Objectives:**

- 1. Prevent flood damage by keeping flood-prone lands free of development
- 2. Protect and enhance the natural functions of floodplains



#### **Overview of Elements**

**422.a: Open Space Preservation (OSP) - up to 1,450 points** for keeping land vacant through ownership or regulations

422.b: Deed Restrictions (DR) - up to 50 points extra credit for legal restrictions that ensure that parcels credited for OSP will never be developed

422.c: Natural Functions Open Space (NFOS) - up to 350 points extra credit for OSP-credited parcels that are preserved in or restored to their natural state



#### **Overview of Elements**

422.d: Special Flood-Related Hazards Open Space (SHOS) - up to 150 points if the OSP-credited parcels are subject to one of the special flood-related hazards or if areas of special flood-related hazard are covered by low-density zoning regulations

422.e: Coastal Erosion Open Space (CEOS) - up to 750 points if the OSP-credited parcels are subject to coastal erosion



#### **Overview of Elements**

422.f: Open Space Incentives (OSI) - up to 250 points for local requirements and incentives that keep flood-prone portions of new development open

422.g: Low Density Zoning (LZ) - up to 600 points for zoning districts that require lot sizes of 5 acres or larger

422.h: Natural Shoreline Protection (NSP) - up to 120 points for programs that protect natural channels and shorelines



### Activity 420 Calculation Details



### Area Preserved in Regulatory Floodplain Total Area of the SFHA

\*\*Regulatory floodplain can be BIGGER than the SFHA, so your ratio *could be* more than 1. \*\*Some activities have a maximum and minimum Impact Adjustment Ratio.

Impact adjustment maps are required!



### Activity 420 Stackable Credits Available

#### Potential to double count?

- 420.a: Open Space Preservation 8 elements
- 422.b: Deed Restrictions 5 elements
- 422.c: Natural Functions Open Space 4 elements
- 422.d: Special Flood-Related Hazards Open Space -TBD
- 422.e: Coastal Erosion Open Space 3 elements
- 422.h: Natural Shoreline Protection No

Check the Green
Guide and CRS
Manual for guidance at
calculation details!





### Element 422.a: Open Space Preservation (OSP)

#### **Requirements:**

- Parcel must be in the community's regulatory floodplain
  - Flood Insurance Rate Map (FIRM)
  - OR outside FIRM-identified floodplain where community enforces development
- Parcel must be "open space"
- The parcel must be "preserved" as open space.

**Maximum Credit: 1,450 points** 

CRS Green Guide, 2017 Slid



### Parcel must be "Open Space"

### Six types of properties that do not count:

- 1. Properties omitted from counting toward the 400 series of the CRS
- 2. Impervious surfaces
- 3. Areas with buildings on them
- 4. Parcels on which fill or other encroachments may be placed
- 5. Utility and maintenance rights of way.
- 6. Publicly-owned property that isn't intended for open space.



Open Space: no buildings, storage, filling, significant pavement, or other encroachment to flood flows



#### "Preserved"

- Public land City, county, state parks, beaches, and forest preserves
- Private lands maintained for open space purposes church retreat areas, hunting club lands, Audubon Society preserves, Boy or Girl Scout camping areas
- Open space areas subject to land development regulations that prohibit buildings and filling



Caveat: owner of property MUST state in writing that they will be KEPT in open space



# Element 422.a: OSP Documentation Difficulty

TIP: These tasks can be completed easily with the help of a GIS professional and through a review of the community's records and/or ordinances

#### **LOW DEGREE OF DIFFICULTY**

- Document where open spaces are within the floodplain (map)
- Provide basic background information on the parcels of land being credited (e.g. copy of deed, copy of a plan)
- Demonstrate that these parcels will be preserved as open space (copy of comprehensive plan, ordinance, etc.)



# **Element 422.a: OSP Implementation Difficulty**

#### **MEDIUM DEGREE OF DIFFICULTY**

- Urban areas may be limited by open space available
- May need to purchase homes, lots, or commercial properties and restore them for additional credit
- Land trusts, NGOs, and other agencies may be critical for financial assistance
- It is easier to avoid development/preserve open space than converting to open space





# Element 422.b: Deed Restrictions (DR)

Maximum total credit available: 50 points

#### Requirements:

- All areas must first qualify for Open Space Preservation
- Language must be attached to deed of the parcel that prohibits new buildings



### Element 422.b: DR Documentation Difficulty

#### **LOW DEGREE OF DIFFICULTY**

- Document where deedrestricted Open Space is located (map)
- Provide ISO/CRS
   Specialist with copies of deed restrictions





# Element 422.b: DR Implementation Difficulty

#### **HIGH DEGREE OF DIFFICULTY**

- Legal restrictions must be imposed on parcels in the floodplain already preserved as open space
- Requires a lot of education and outreach to work with private landowners to willingly relinquish right to develop their land
- Restrictions do not need to be universally adopted or mandated -- but you will have to perform outreach.





### Element 422.c: Natural Functions Open Space (NFOS)

#### **Requirements:**

- All NFOS areas must first qualify for Open Space Preservation credit
- Credit for the first sub-element is required for rest of credits
- Property must stay in natural state or otherwise managed to keep its designation
- Areas need to be marked on your Activity 420
   Impact Adjustment Map

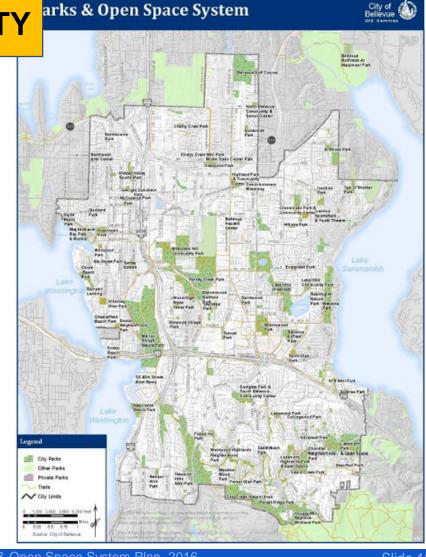
Maximum Credit: 350 points



### Element 422.c: NFOS Documentation Difficulty

#### **MEDIUM DEGREE OF DIFFICULTY**

- Need a qualified professional document the NBF of the lands
- Filling out and organizing paperwork could be time intensive for larger communities
- May need to hire additional personnel or contractors
- Documentation can be reused





# **Element 422.c: NFOS Implementation Difficulty**





### Element 422.d: Special Flood-Related Hazards Open Space (SHOS)

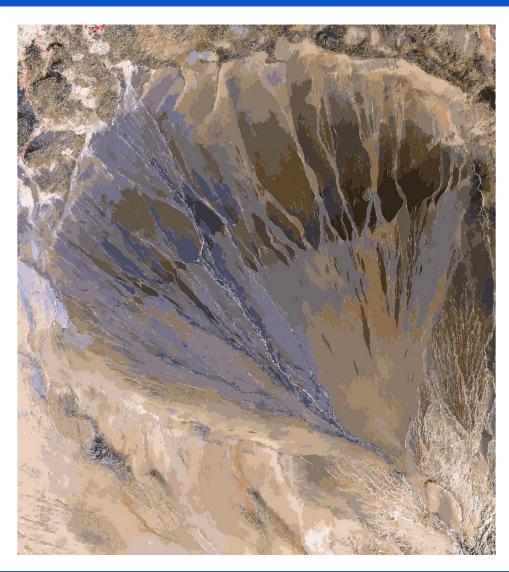
#### **Maximum Credit: 150 points**

#### Requirements:

- Area must qualify for open space credit
- Area must be included in a special hazard map
- Area must be subject to regulations under Activity 430

#### Includes:

- Uncertain flow paths
- Closed basin lakes
- Ice jams
- Land subsidence
- Mudflows





# Element 422.d: SHOS Documentation Difficulty

#### **LOW DEGREE OF DIFFICULTY**

- Copies of ordinances
- Create an impact adjustment map for each flood-related hazard area
- Show overlap between flood-related hazard and the flood



# Element 422.d: SHOS Implementation Difficulty

#### **HIGH DEGREE OF DIFFICULTY**

- A community must develop and adopt a map that identifies <u>and</u> protects these areas in open space
- Sometimes you need a licensed expert to perform modeling for mapping



## Element 422.e: Coastal Erosion Open Space (CEOS)

#### **Requirements:**

- The area must be seaward of an area that is eroding at a rate greater than or equal to 1.5 feet per year.
- The area must qualify for OSP credit.
- The community must earn pre-requisite points in Activity 412.f, 442.d, and 432.n





### 422.e: CEOS Documentation Difficulty

#### **LOW DEGREE OF DIFFICULTY**

- Copies of relevant ordinances
- Impact adjustment map for areas vulnerable to coastal erosion
- Evidence that community meets additional prerequisites





### **Element 422.e: CEOS Implementation Difficulty**

#### HIGH DEGREE OF DIFFICULTY

- You need to be doing additional mapping under Activity 410 - Mapping for Coastal Erosion
- You need expert-level data about erosion rates



### Element 422.e: CEOS The Good News...

# 20 coastal states/territories have state-mandated shoreline no-build areas, including most of the Great Lakes States!

Look at the NOAA
Report, titled
"Protecting the Public
Interest through the
National Coastal
Zoning Management
Program"

Figure 1: Role of Coastal States in Regulating Ocean and Great Lake Shorefront Development



State regulates shorefront development and has identified shorefront no-build areas
State regulates shorefront development but has not identified shorefront no-build areas
State does not regulate shorefront development as defined here
State does not have a federally approved coastal management program (as of Dec. 2011)<sup>7</sup>

CRS Green Guide, 2017



# Element 422.f: Open Space Incentives (OSI)

#### **Regulatory and Planning Tools:**

- Regulatory and Planning Tools:
- Planned Unit Developments
- Transfer of Development Rights
- Cluster Development
- Tax Incentives

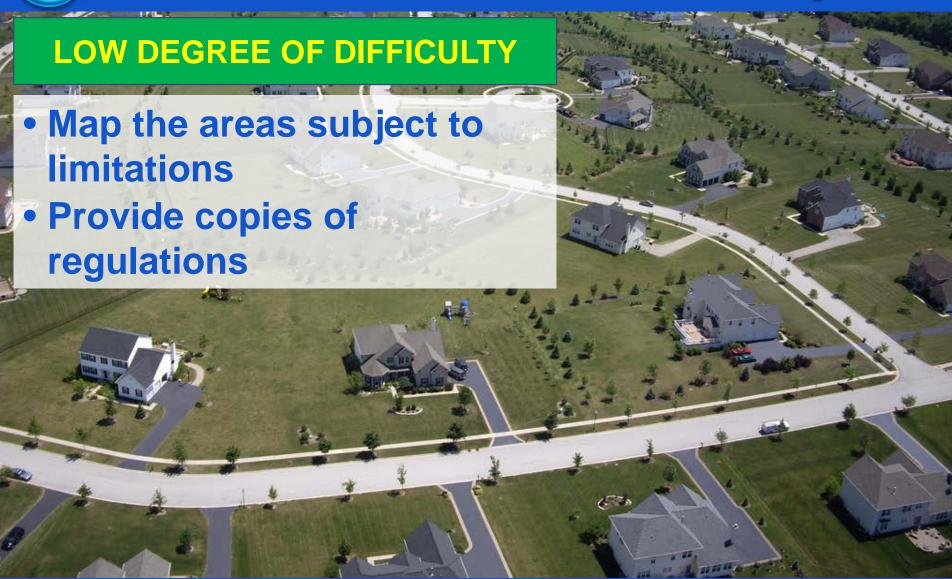
See CRS Manual pages 420-21 to 420-25 for information on various requirements

Maximum Credit: 250 points



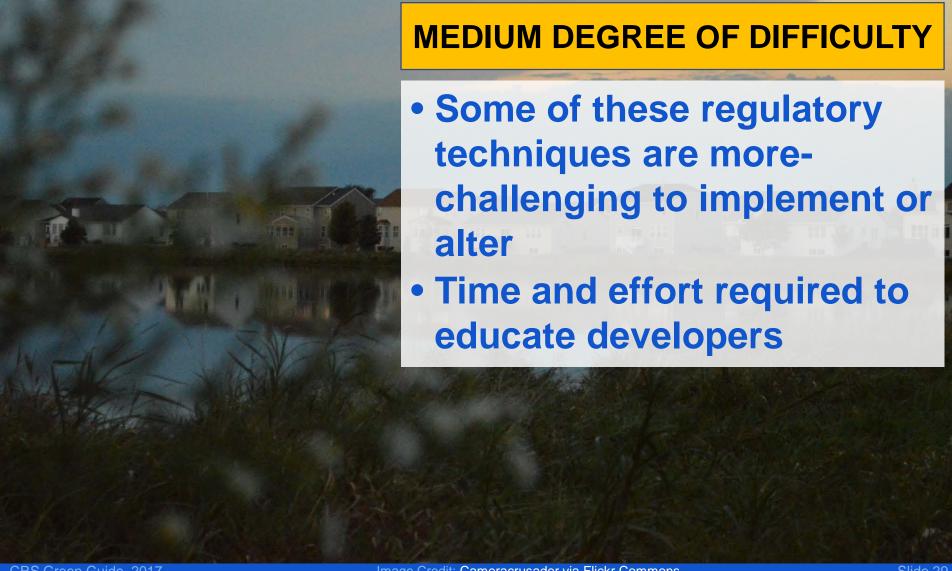


# Element 422.f: OSI Documentation Difficulty





### Element 422.f: OSI **Implementation Difficulty**

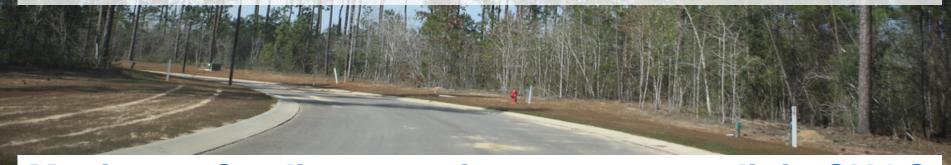




### Element 422.g: Low Density Zoning (LDZ)

#### Requirements:

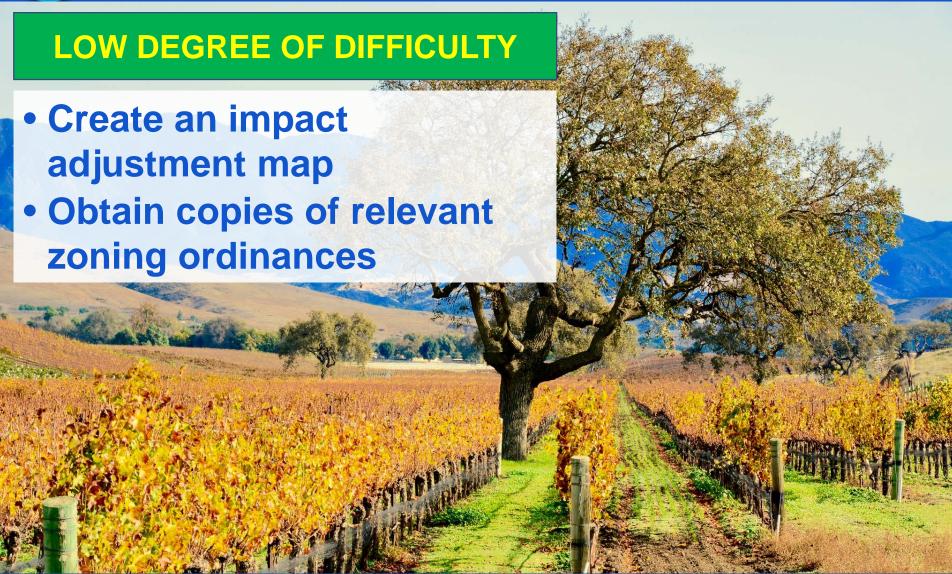
- Lots must be at least 5 acres in size (lots larger than 10 acres credited at 10 acres)
- Lands cannot be credited for 422.a: OSP
- Community zoning ordinance that identifies different development criteria and densities for different areas



Maximum Credit: 600 points + extra credit in SHOS

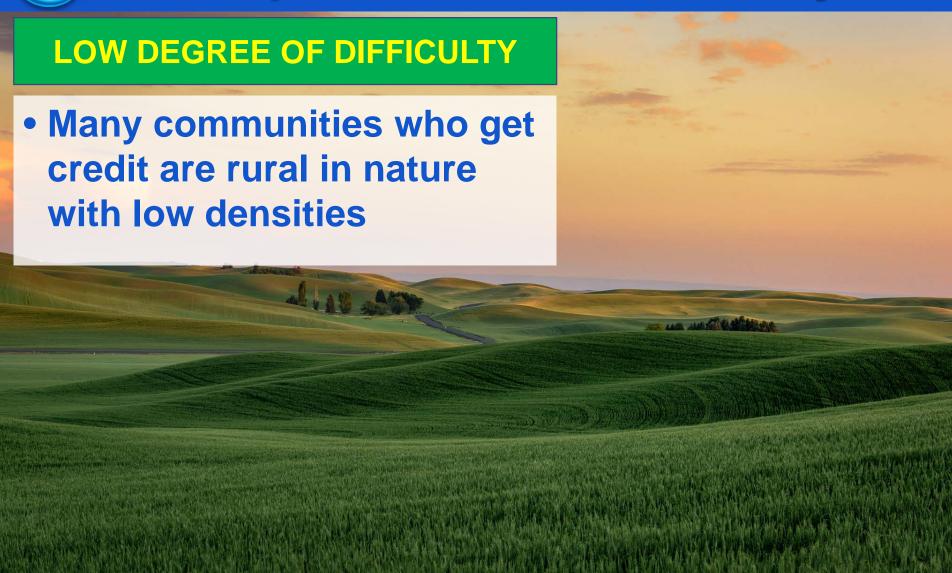


### Element 422.g: LDZ Documentation Difficulty





# Element 422.g: LDZ Implementation Difficulty





# Element 422.h: Natural Shoreline Protection (NSP)

#### **Requirements:**

- Regulation/program must prohibit
  - Rip-rap, armoring, alternations, dredging, removal of vegetation, filling on channels and channel banks
  - Filling or other alterations to beach (including beach nourishment projects), alterations to sand dunes, construction of seawalls, bulkheads, armoring or other shoreline stabilization structures on shorelines of lake





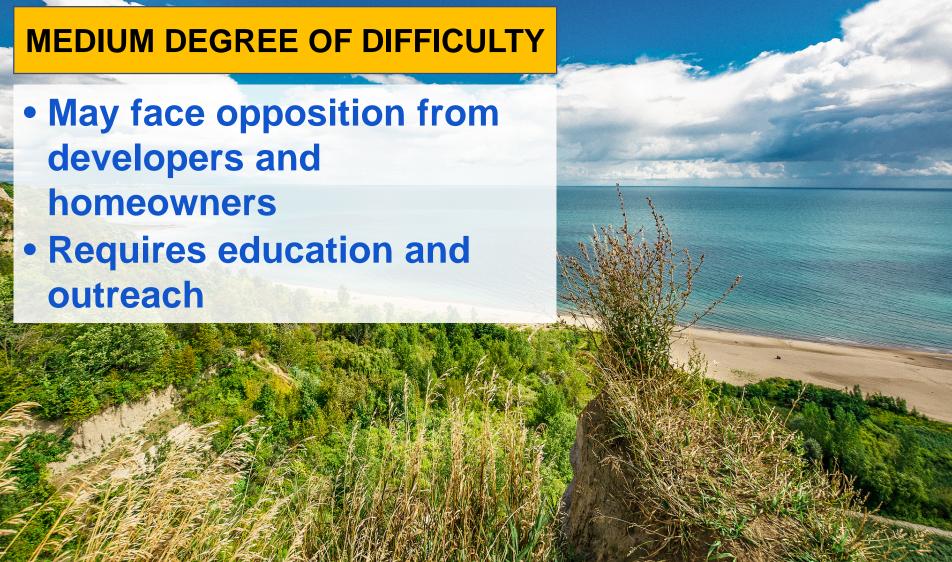
# Element 422.h: NSP Documentation Difficulty

#### **MEDIUM DEGREE OF DIFFICULTY**

- - Impact adjustment map
  - Copies of relevant ordinances
  - Records of a project or program that restored shorelines
  - Policy or plan that protects areas in future



## **Element 422.h: NSP Implementation Difficulty**





## Activity 420 Tips for Success

#### Take credit for what you're doing!

- 1) Find creative ways to take credit for private lands that are being preserved as open space.
- 2) Work with local land trusts, landowners, and conservation groups to identify properties that meet certain requirements for various elements.
- 3) Use existing planning mechanisms when possible.
- 4) Contact experts you don't always have to pay a contractor.





### **Activity 420** Tips for Success

- 5) Be patient and purposeful.
- 6) Create funding sources.
- 7) Public outreach is key.





### **Questions?**

