

Scenario:
 Area of Influence: 100 feet
 Sea Level Rise: 6 feet
 Tree Canopy Goal: 30%

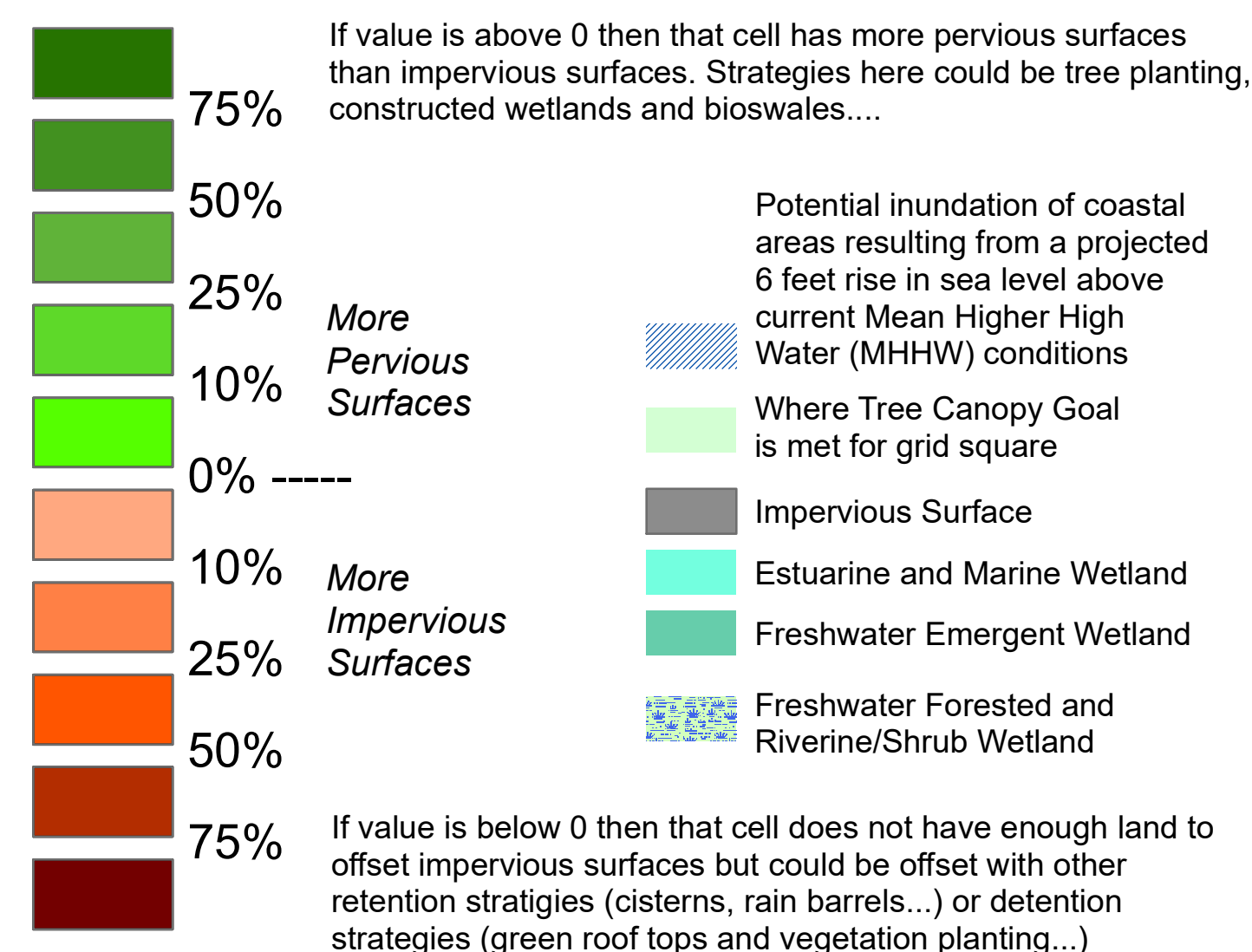
Scenarios Available:
 Area of Influence: 100 feet, 1 acre, 4 acre
 Sea Level Rise: 1 - 6 feet
 Tree Canopy Goal: 30%, 45%, 60%

Source Information:
 Landcover data from The Virginia Geographic Information Network (VGIN), 2016.
 Sea Level Rise data from Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA), National Ocean Service (NOS), Office for Coastal Management (OCM), 2016.

Analysis and Map prepared by The Green Infrastructure Center for the RAFT project, July 2016



Impervious / Pervious Surface Offset



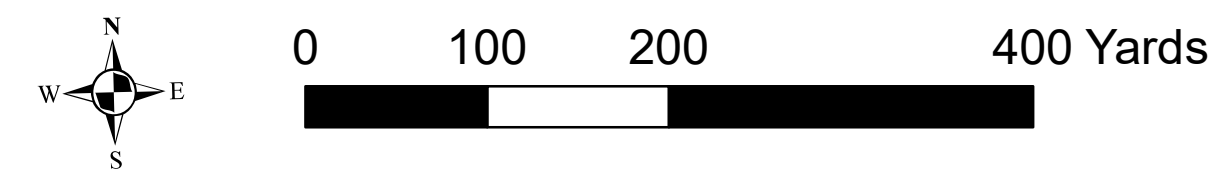
If value is above 0 then that cell has more pervious surfaces than impervious surfaces. Strategies here could be tree planting, constructed wetlands and bioswales....

- Potential inundation of coastal areas resulting from a projected 6 feet rise in sea level above current Mean Higher High Water (MHHW) conditions
- Where Tree Canopy Goal is met for grid square
 - Impervious Surface
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested and Riverine/Shrub Wetland

If value is below 0 then that cell does not have enough land to offset impervious surfaces but could be offset with other retention strategies (cisterns, rain barrels...) or detention strategies (green roof tops and vegetation planting...)

Other Pervious (Potential Tree Planting Areas):
 Harvested/Disturbed
 Turf/Grass
 Pasture
 (Cropland Not Included)

$$\frac{\% \text{ Impervious} - \% \text{ Other Pervious}}{\% \text{ Impervious} + \% \text{ Other Pervious}} = \text{Offset}$$



Other Pervious:
 These areas could be potential places to plant trees.
 They include the following selected landcover features:
 Harvested/Disturbed
 Turf/Grass
 Pasture
 (Cropland Not Included)

Impervious Surfaces:
 This value was calculated by dividing the amount of impervious surfaces in a grid square by the total area of the grid square (not including water and existing wetlands).

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Tree planting and revegetation strategies

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Rainwater detention and storage strategies