

COASTAL RESILIENCE SUMMARY

CHARLES CITY COUNTY, VIRGINIA

Natural and Nature-Based Features (NNBFs)

Forests, trees, wetlands, beaches, and living shorelines benefit communities by reducing storm wave energy, soaking up floodwaters, improving water quality, providing areas for recreation, creating habitats for important plants and animals, and even lowering flood insurance costs. These **Natural and Nature-Based Features (NNBFs)** have been mapped for areas that are less than 10-feet in elevation, experience tidal and storm flooding, and include buildings at risk. *(All numbers are approximate.)*



MAP: Charles City coastal areas less than 10-ft elevation, with targets for new NNBFs

NNBFs in Charles City Coastal Areas

9,184 acres All Coastal NNBFs, including:



3,608 acres Forested Wetland



3,232 acres Tidal Marsh



1,778 acres Wooded



266 acres Emergent Wetland



>1 miles Hybrid Living Shorelines

Visit www.AdaptVA.org to view all coastal NNBFs

Benefits of NNBFs in Charles City



1,587 acres of NNBFs that decrease flooding risks for buildings



9,161 acres of NNBFs that improve water quality by reducing sediment, nitrogen, and phosphorus



8,027 acres of NNBFs potentially eligible for FEMA Community Rating System credits (100-ft RPA buffer and wetlands located within 100-year flood zones)

Coastal Area Facts

for areas less than 10-ft elevation

10% of Charles City area (11,504 acres)

102 coastal buildings

0 critical facilities

4 coastal buildings without NNBF benefits

3 targets for new NNBFs

Chesapeake Bay RPA 100-ft Buffer Overview

across all of Charles City County

11,937 acres of RPA buffer

1,165 acres of RPA buffer currently turfgrass potentially eligible for water quality credits if converted into NNBF



To learn more: www.vims.edu/ccrm/nbf