



US Army Corps  
of Engineers  
Wilmington District

## Wrightsville Beach, NC (Coastal Storm Damage Reduction)

- **Sponsor: Town of Wrightsville Beach**
- **Initial project completed in 1965 and reauthorized in 1986**
- **Project covers 2.7 miles of shoreline**
- **Nourishment scheduled every 4 years**
- **Last nourishment cycle completed in April 2010**
- **Next nourishment cycle scheduled for FY 2014**



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CONGRESSIONAL DISTRICT: NC 7

DATE: 8 April 2013

1. **AUTHORIZATION:** Flood Control Act of 1962 and the Water Resources Development Act (WRDA) of 1986.
2. **LOCATION AND DESCRIPTION:** Wrightsville Beach is located in New Hanover County in southeastern North Carolina adjacent to the Atlantic Ocean. The project consists of a dune with a base generally bordering at or near the building line with a crown width of 25 feet at an elevation of 15 feet national geodetic vertical datum (NGVD), together with an integral shoreline berm with a crown width of 50 feet and a top elevation of 12 feet NGVD for a total distance of 14,000 feet.

Coastal erosion at Wrightsville Beach is caused by two major factors: storm related coastal erosion and impacts from the Masonboro Inlet navigation project's jetties. Consequently the Wrightsville Beach project is budgeted under two business lines. First, coastal erosion due to coastal storms is budgeted in the flood risk management business line and is appropriately cost shared with Federal construction and non-Federal required contributed funds. Second, mitigation by sand bypassing from impacts of the Masonboro Inlet jetties is budgeted under the navigation business line. The jetties have impacted the natural replenishment of sand on Wrightsville Beach and Masonboro Island. Mitigation prescribed for these impacts is to bypass sand to both islands which is normally accomplished at the same time Wrightsville Beach is nourished on a 4 year periodic cycle.

PROJECT INFORMATION – Wrightsville Beach, NC (Coastal Storm Damage Reduction) –  
Continued

3. **COST ESTIMATE:** A Section 111 study was approved in 1980 and established that the coastal erosion/damage at Wrightsville Beach resulted from coastal erosion due to storms and the Federal navigation improvements at Masonboro Inlet. Therefore, a portion of the project is cost shared at 65% Federal and 35% non-Federal and a portion of the project is not cost shared (100% Federal) respectively. This results in an ultimate cost sharing of 81% Federal and 19% non-Federal.

\$29,943,000	(Federal)
<u>7,720,000</u>	(non-Federal cash contribution)
\$37,663,000	TOTAL

4. **FEDERAL FUNDING ALLOCATION THRU FY 2012:** \$10,250,000.

5. **FY 2013 BUDGET AMOUNT:** \$ 0. An engineering design report (EDR) is being completed using previously appropriated carry-in funds. The EDR is evaluating jetty and dredging impacts on Masonboro Island and Wrightsville Beach, dredging impacts on jetties, Masonboro Island sand deficit and channel alignment. Plans and specifications are also being initiated with previously appropriated carry-in funds.

6. **FY 2014 BUDGET AMOUNT:** \$8,000,000. Funds would be used to complete the design and specifications for the nourishment cycle and award of the contract.

7. **KEY DATES:** The next nourishment cycle is scheduled for FY 2014.

8. **OTHER INFORMATION:** Initial construction of the project was completed in 1965. Refer to the Masonboro Inlet fact sheet for more information on the sand bypassing requirement to Masonboro Island.