



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**
- **Nourishment cycle underway in FY 2014**
- **Next nourishment cycle scheduled for FY 2018**



CONGRESSIONAL DISTRICT: NC 7

DATE: 6 March 2014

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, impacts of the Masonboro Inlet jetties is budgeted under the navigation business line and is accomplished using Federal construction funds for 2014. 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.

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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, the coastal erosion portion of the project is cost shared at 65% Federal and 35% non-Federal and the Masonboro Inlet impacts 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 2013:** \$10,250,000.

5. **FY 2014 FUNDING ALLOCATION:** \$8,000,000. These funds will be used to complete plans and specifications, perform re-nourishment cycle schedule for FY 2014 and complete Federal sand by-passing mitigation to Wrightsville Beach for erosion due to Masonboro Inlet jetties.

6. **FY 2015 BUDGET AMOUNT:** \$0. No additional funds required.

7. **KEY DATES:** The next nourishment cycle is scheduled for FY 2018, subject to the availability of funds.

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.