

The Duxbury (barrier) Beach:

Length: 7 miles, with approximately 4.5 miles undeveloped with an unimproved roadway down the middle of the 4.5 miles of undeveloped barrier and coastal dune.

The 4.5 miles of undeveloped barrier beach is owned by the non-profit organization the Duxbury Beach Reservation Inc.

'General' measurements:

Entire width of the barrier beach ranges from 700' to >1,000';

Average barrier beach width 250' – 450';

Intertidal Cape Cod Bay width ranges 150' – 300'

Cape Cod Bay dry beach (high tide to dune toe) 100' - 250'

Dune width (including the unimproved roadway) ranges 85' – 300'

Duxbury Bay intertidal area is approximately 80' wide.

The unimproved roadway that runs down the middle of the dune is approximately 25' wide.

The 4 miles of barrier beach dunes were completely eroded/leveled following several coastal storms, e.g. 1978, 1991, 1992; and the owners of undeveloped portion of Duxbury Beach (the Duxbury Beach Reservation, Inc) spent >\$1,000,000 to restore the beach/dune and roadway due to erosion and damage caused by the NE storm/blizzard NEMO in **2013**.

Due to the early 1990s storms the beach and roadway were completely impassable several times with approximately \$1,200,000 worth of repairs to the barrier and roadway necessary.

Due to on-going coastal storms & relative sea level rise the dunes and unimproved roadway get overwashed several times every winter, making the roadway impassable at times until it is repaired and filled with off-site material.

The roadway down the middle of the dune has been relocated landward 3 times – twice in the past several years including 2013 when it was moved approximately 40' landward - following the landward migration of the barrier beach.