

NOTES TO USERS

is for use in administering the National Flood Insurance Program. It does not identify all areas subject to flooding, particularly from local drainage of small size. The community map repository should be consulted for updated or additional flood hazard information.

more detailed information in areas where **Base Flood Elevations (BFEs)** have been determined, users are encouraged to consult the Flood of Floodway Data and/or Summary of Stillwater Elevations tables contained in the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users are aware that BFEs shown on the FIRM represent rounded whole-foot values. These BFEs are intended for flood insurance rating purposes only and are not to be used as the sole source of flood elevation information. Accordingly, additional data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Base Flood Elevations shown on this map apply only to landward of 0.5' from the mean high water line (MHW) of the National Oceanic and Atmospheric Administration (NOAA) 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations in the Summary of Stillwater Elevations table should be used for construction and floodplain management purposes when they are higher than the elevations shown on this FIRM.

of the **floodways** were computed at cross sections and interpolated cross sections. The floodways were based on hydraulic considerations with requirements of the National Flood Insurance Program. Floodway widths and pertinent floodway data are provided in the Flood Insurance Study Report.

was not in Special Flood Hazard Areas may be protected by **flood control** structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

Horizontal datum used in the preparation of this map was Massachusetts State Plane Zone 18 (NAD 83, GRS 1980). Differences in datum, projection or UTM zones used in the FIRM for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

ations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations in the Summary of Stillwater Elevations table should be used for construction and floodplain management purposes when they are higher than the elevations shown on this FIRM.

ation Services Branch of the National Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

information shown on this FIRM was derived from digital orthophotography by the Massachusetts Geographic Information System. This information was derived from orthophotography dated 2005.

Hydraulic modeling depicted on this map represent the hydraulic modeling baselines in the flood profiles in the FIS report. As a result of improved topographic data, the hydraulic modeling baselines, in some cases, may deviate significantly from the channel or appear outside the SFHA.

updated topographic information, this map reflects more detailed and stream channel configurations and floodplain delineations than shown on the previous FIRM for this jurisdiction. As a result, the Flood of Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect actual distances that differ from what is shown on the map. Also, the floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred since this map was published, map users should contact appropriate officials to verify current corporate limit locations.

for the separately printed **Map Index** for an overview map of the entire FIRM, showing the layout of map panels, community map repository addresses, and listing of Communities table containing National Flood Insurance Program data for each community as well as a listing of the panels on which each community is shown.

on available products associated with this FIRM visit the **Map Center (MSC)** website at <http://map.fema.gov>. Available products may include Letters of Map Change, a Flood Insurance Study Report, digital versions of this map. Many of these products can be ordered or downloaded from the MSC website.

ive questions about this map, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information (FMI)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/fmi>.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND

1 Otherwise Protected Area (OPA)
Insurance NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR EXISTING STRUCTURES NOT FULLY SERVICED ON OR AFTER NOVEMBER 16, 1991 IN DESIGNATED CBRS.

es of the John H. Chafee Coastal Barrier Resources System (CBRS) in this FIRM were transferred from the official CBRS source map(s) and are depicted on this FIRM for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and maintained by the U.S. Fish and Wildlife Service (FWS). The official CBRS maps used to determine whether or not an area is within the CBRS are available for download at <http://www.fws.gov>. For any questions regarding the CBRS, please contact the FWS field office at 603-223-2541.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100-year flood), also known as the "base flood," is the flood with a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas (SFHAs) are the areas subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AO, AH, AR, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A**
No Base Flood Elevations determined.
- ZONE AE**
Base Flood Elevations determined.
- ZONE AH**
Flood depths of 1 to 3 feet (locally sheet flow on sloping terrain); average depths determined. For areas of actual flat flooding, velocities also determined.
- ZONE AR**
Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently described. The All indicates that the former flood control system is being retained to protect from the 1% annual chance or greater flood.
- ZONE AR1**
Area to be protected from 1% annual chance flood by a flood control system under construction; no Base Flood Elevations determined.
- ZONE V**
Coastal flood zone with velocity hazard (wave action); no flood determined.
- ZONE VE**
Coastal flood zone with velocity hazard (wave action); Base Flood Elevation determined.

FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be encompassed so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with changes in area less than 1 square foot and are protected by levees from 1% annual chance flood.

OTHER AREAS
ZONE X
Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are unknown, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary

Floodway boundary
Zone D boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas and floodplains
Special Flood Hazard Areas of different Base Flood flood depths, or flood velocities.

Base Flood Elevation line and value; elevation in feet (EL 987)
Base Flood Elevation value where uniform within zone; elevation in feet

Reference to the North American Vertical Datum of 1988
1983 (NAVD 83) Western Hemisphere

4960000 M
1000-meter UTM; Massachusetts State Plane NAD 83 Zone 18E
1000-meter Universal Transverse Mercator grid values, zone 18E

42° 48' 45" N
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

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NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0129F

FIRM

FLOOD INSURANCE RATE MAP

ESSEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

PANEL 129 OF 600
(SEE MAP INDEX FOR FIRM PANEL LIST)

COMMUNITY	NUMBER	PANEL
NEWBURYPORT CITY OF	250097	0129
NEWBURYPORT TOWN OF	250103	0129

NOTE:
THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1962 AND AS AMENDED. For more information, see the official CBRS maps. Notice to User: The Map Number shown should be used when placing map on Community Number shown above should be used on insurance applications for the community.

MAP NUMBER
250097C
EFFECTIVE DATE
JULY 3, 2012
Federal Emergency Management Agency