


MAJOR, REGIONAL, SUBREGIONAL AND LOCAL
SALEM, CONNECTICUT

Basin Boundary

 Major Basin
 Regional Basin
 Subregional Basin
 Local Basin

Outlet Direction
Main Stem Direction

Elevation

———— 100 ft Contour Line

———— 20 ft Contour Line

This map shows the location and identification number of major, regional, subregional, and local drainage basins. It is intended to serve as a municipal guide for drainage basin delineation and identification. Local basins make up larger subregional, regional, and nationwide drainage basin areas and are differentiated by their drainage basin boundary type and identification numbers. Arrows on the map represent general direction of surface water flow within local drainage basins. Local outlet direction is shown in purple. Main stem direction is shown in red. Coastal direction is shown in blue.

A 7-digit drainage basin number such as 4302-02 uniquely identifies the drainage basin areas shown on this map. Drainage basin areas are numbered from 01 to 43 and are ordered from upstream to downstream. The identification numbers are hierarchical. The first digit (column 1) identifies the major basin, the first two digits (column 2) identify the submajor basin, the third digit (column 3) identifies the subregional basin, and the first seven digits (column 4) identify the subbasin. The last two digits (column 5) are the major regional and subregional basin numbers for local basin number 4302-02. As illustrated in the diagram below, this signifies that the drainage basin 4302-02 is a subbasin of the regional basin 4302, which is part of regional basin 43, which is part of major basin 4.

Drainage basin boundaries shown on this map were manually delineated by interpreting the 10 foot contour lines and hydrography features shown on USGS 1:24,000-scale topographic quadrangle maps. Only limited field checking was conducted to verify the location of these basin boundaries. Basin boundaries may not be exact, but they are believed to be close to the actual wetland and reservoirs having outlets into two basins; areas where topographic mapping is not up to date, is inaccurate, or is not detailed enough to adequately define local drainage. Residential and commercial buildings, roads, and other features are shown as they appear on the terrain of the basins. Canals and elevation of hills and ridges depicted by these contour lines.

Note: The major, regional and subregional drainage basin boundaries shown on this map are the same as those published on the 1:25,000-scale map entitled *Natural Drainage Basins in Connecticut*, McJroy, 1981. The basin boundaries shown on this map were digitized from the 1:24,000-scale compilation sheets used to publish the state map of *Natural Drainage Basins in Connecticut*, 1981.

commercial development, highway construction, and other changes to the landscape may have resulted in local modifications to the natural drainage pattern since the time these basin boundaries were delineated.

The elevation contour lines shown on this map are more accurate than those used to originally delineate the drainage basin boundaries. So, in certain areas, the basin boundaries may not exactly reflect the shape of the land surface depicted by the contour lines shown on this map. The boundaries of the drainage basins were derived from a statewide collection of ground elevation LIDAR data for the year 2000. This information is only suitable for general planning and informational purposes. It is not intended for exact determinations of elevations where a survey is normally required, or for detailed engineering, building, or design purposes. With this information, a general sense of the shape of the land surface can be obtained. The contour lines are characterized by widely spaced contour lines, while steep slopes are characterized by closely spaced contour lines. Contour lines that cross streams flowing through valleys of noticeable relief will form a V-shape deflected with the apex of the V pointing upstream. Contour lines based on the USGS topographic quadrangle maps at 1:24,000 scale may not align exactly with the terrain of stream valleys and elevations of hills and ridges depicted by these contour lines.

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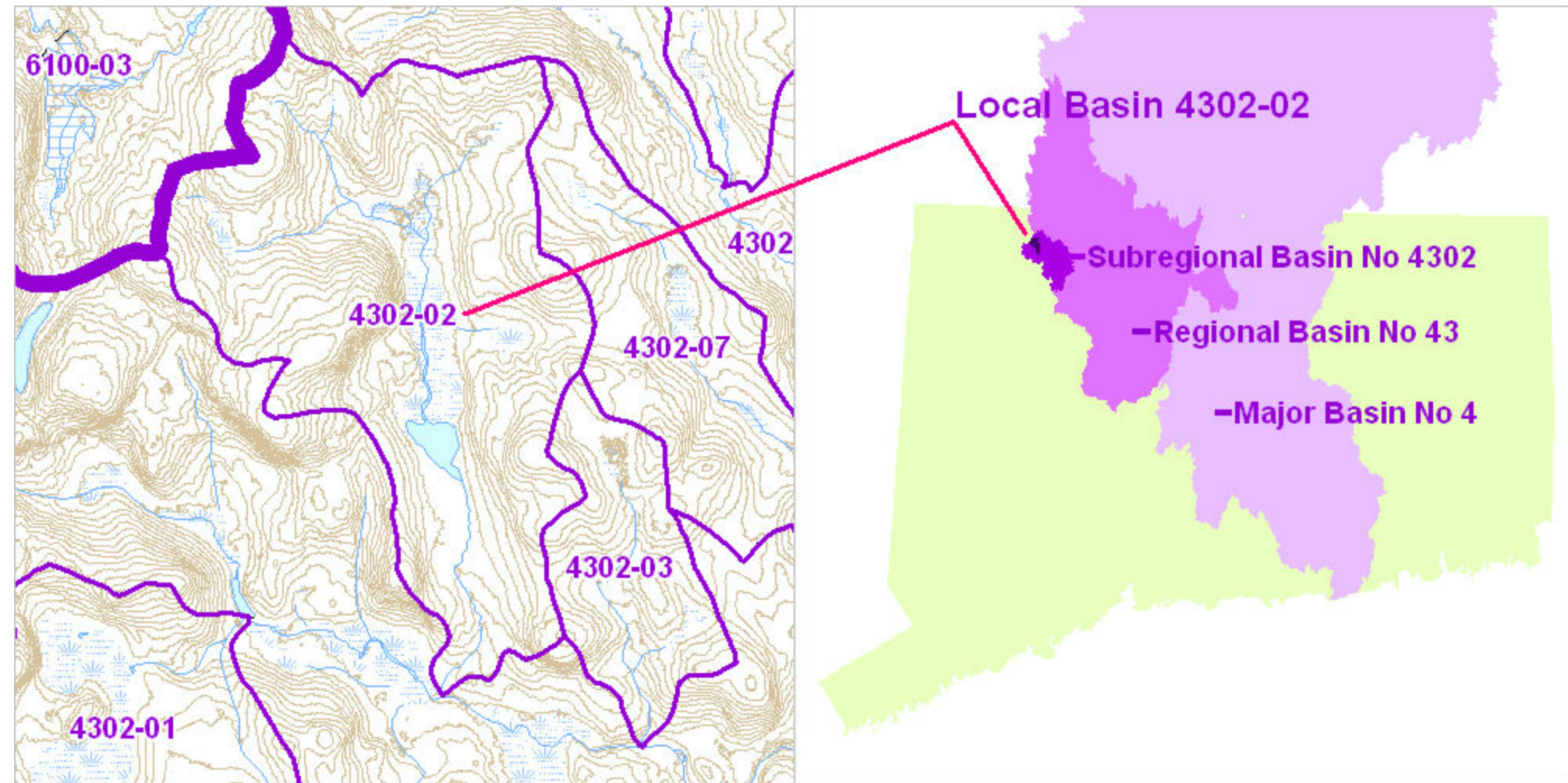


Figure 1. Example showing a typical local drainage basin and the subregional, regional, and major drainage basin it is part of.

LOCAL DRAINAGE BASIN DATA - The drainage basin information shown on this map is based on the following digital spatial datasets: Connecticut Local Baseline and Local Basin Poly. These two datasets were developed by CT DEP and depict major, regional, subregional, and local basin drainage areas and boundaries at 1:24,000-scale. The CT DEP dataset areas for Connecticut rivers, streams, brooks, lakes, reservoirs and ponds published on 1:24,000-scale 7.5 minute topographic quadrangle maps prepared by the USGS between 1969 and 1984.

BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas' copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION

ELEVATION CONTOUR DATA – The elevation contour line information shown on this map was derived from a statewide 10-foot resolution digital elevation model (DEM) produced by the Connecticut Landmark dataset for 2000, which captured ground elevation every 20 feet at a horizontal accuracy of approximately 3 meters. This DEM has been used by the Department of Environmental Protection to generate maps of stream networks and watershed boundaries. However, there are some areas where the data is unevenly in some areas, which resulted in data gaps. The University of Connecticut, Center for Land Education and Research (CLEER), provided the DEPRM project with access to the information from contour lines on USGS 1:24,000-scale topographic maps. In some instances, the data may differ slightly from the information shown on the map. The data should be used within the known limitations of the source data.

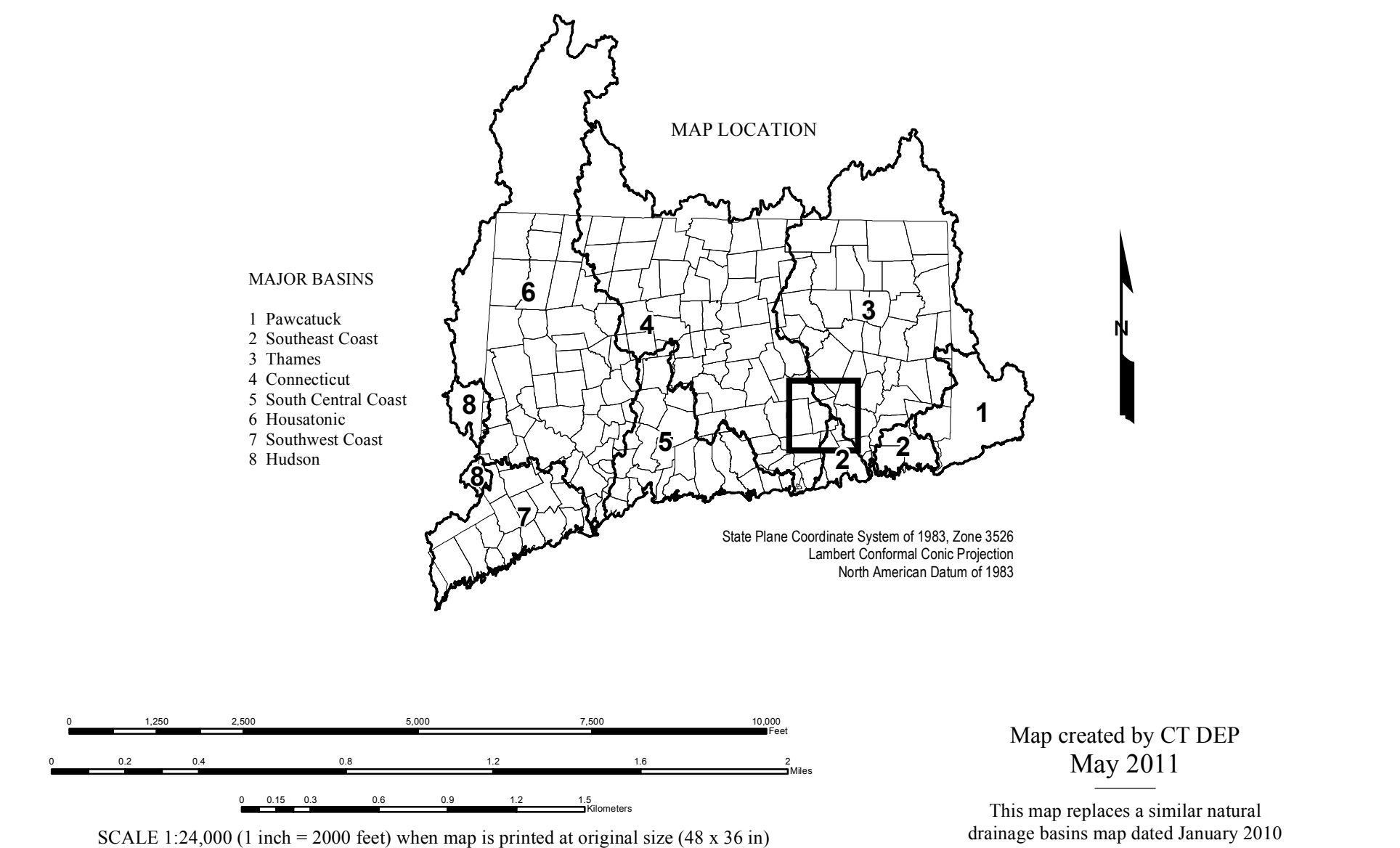
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RELATED INFORMATION

This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).

To identify either all upstream basins draining to or all downstream basins flowing from a particular location, refer to the Gazetteer of Drainage Basin Areas of Connecticut, Nosal, 1977, CT DEP Water Resources Bulletin 15, for the hydrologic sequence, headwater to outfall, of drainage basins.

MAPS AND DIGITAL DATA - Visit the CT ECO website for this map and a variety of others in PDF format. Visit the CT DEEP website to download the digital spatial data shown on this map.



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