

Mason, New Hampshire

Level 4 watersheds (which contain one or more Levels 1...3)

Watersheds discharging near road or trail crossings
(runoff may enter a nearby culvert or a ditch)

Red circles indicate watershed outflow point
Arrows show general flow direction
Area of each watershed is shown in acres

LEGEND

Transport
 red line: State highways
 black line: Town roads, maintained (Class V)
 dash line: Town roads, not maintained (Class VI)
 dot dot line: private roads or trails (not shown)

dash dot dot line: Mason RR Trail

Hydrological
 Green area: wetlands
 Blue area: pond or lake
 Blue line: stream

Watersheds
 Red Circle: watershed outlet
 Red outline arrow: flow direction

Background color: watershed area
 Heavy black line = watershed outline
 notice 2 separate watersheds shown
 21 a = acreage of watershed

Contours : 10' contours, labeled at 100' intervals,

NOTES:

Watershed outlets do not necessarily align with existing culverts - sometimes the flow is carried some distance along a road-side ditch before entering a culvert.
 Watersheds which drain without crossing Mason roads were mostly ignored.

Watersheds derivation was based on 2018 National Elevation Dataset (NED) 1/3 arc-second (~10 meters) horizontal resolution Digital Elevation Model (DEM) "USGS_NED_13_n43w072_ArcGrid.zip", dated Mar 28, 2018, downloaded via <https://viewer.nationalmap.gov/basic/>

Flow channels were analyzed based on the DEM, then the intersections of the channels with roads were marked, as shown with the red circles. These points were subsequently used as starting points for analyzing watersheds (upstream areas).

Contours were calculated based on the DEM, then cross-checked against contour data from "ELEV_Boston_W_MA_1X1_Shape.zip", dated Feb 11, 2018 from <https://viewer.nationalmap.gov/basic/> and found to match very well. Calculated contours were used to provide 10' contours throughout Mason (USGS contours only provided 20' contours in Mason's NW quadrant).

Town boundaries, roads, streams, wetlands, etc., are from GRANIT shape files which are largely based on the USGS 7.5' topographic map data. Alignment with the more recent DEM data is not perfect, so the calculated watershed outlets sometimes do not align exactly with a stream shown on the map.



prepared for the
 Mason Conservation Commission
 by Garth Fletcher July 29, 2018

