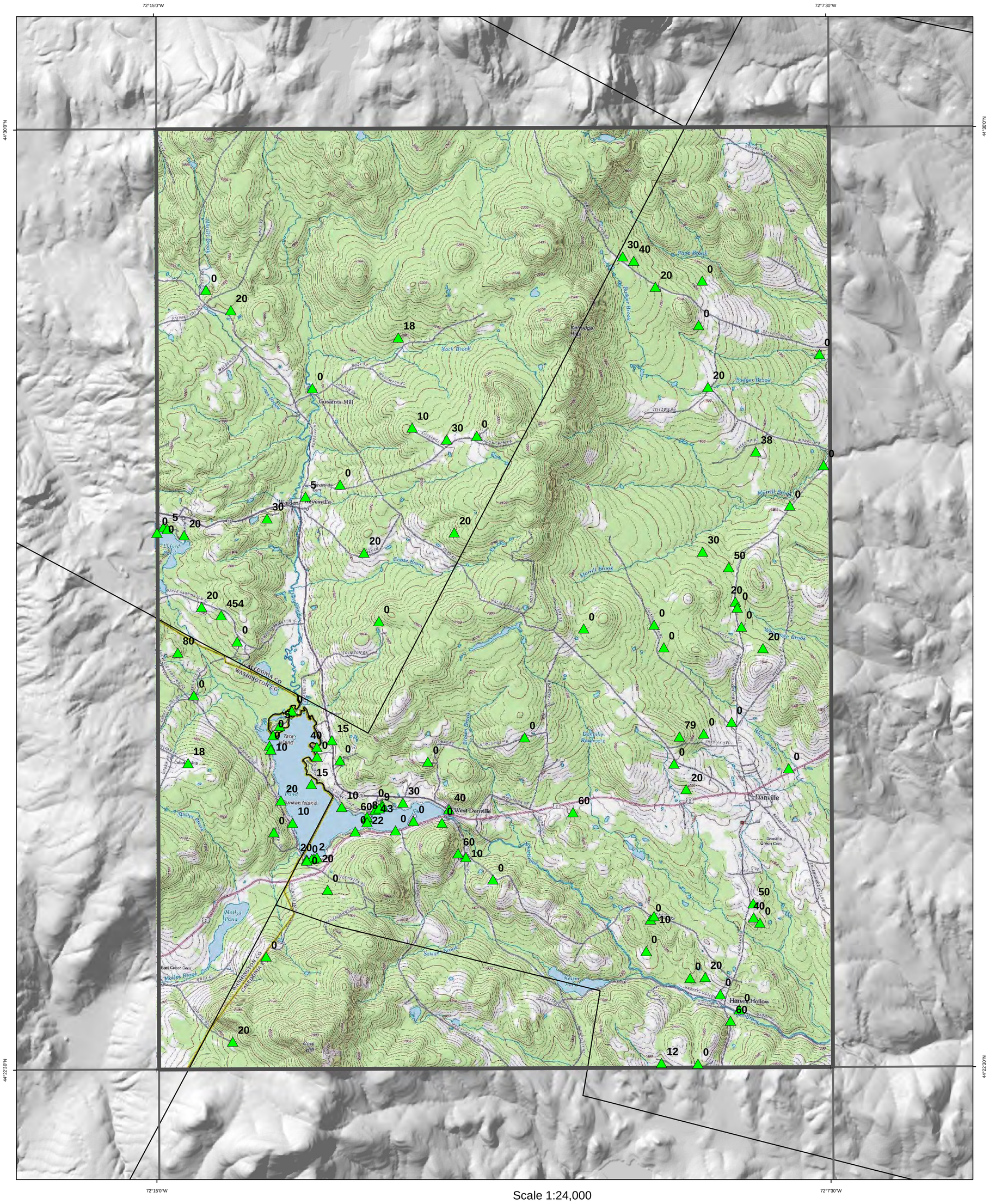


Static Water Level (feet)

StudyArea

Quadrangle Boundaries

Town Boundaries

## EXPLANATION

This plate contains information on the height of water levels in existing wells (static water levels). Static water levels are collected during well installation and are subject to considerable seasonal variation. Labels indicate the depth to the water surface in feet. If the groundwater flowing through the bedrock and surficial deposits is unconfined, then the groundwater will tend to move from higher areas to lower areas and converge towards the streams, ponds, and wetlands. In that case, contours of equal elevation on the groundwater surface would be roughly parallel to the topographic contours shown on the map. However, any confining layers in the surficial deposits or within the bedrock units would result in wells that have water levels higher than the topography would indicate.

Although there is abundant opportunity for groundwater recharge over much of the quadrangle due to the relatively thin surficial deposits (see Plates 3 and 9), the recharge areas for many wells may be relatively small and thus the wells may not be able to sustain heavy withdrawal without excessive lowering of the water levels.

Magnetic declination
14.5 degrees west, 2017

Scale 1:24,000

Miles
0 1 2

Kilometers
0 1 2 3 4

# Water Well Yield and Bedrock Geology, Joes Pond Quadrangle, Vermont

by
George E. Springston
2018

Base map from U.S. Geological Survey.
Coordinate System: Vermont State Plane, meters, NAD 83.
Geographic coordinates shown at topo corners are in NAD 83.

Digital cartography by George Springston, December 31, 2018.
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The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the State of Vermont.

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