

THIS MAP IS A SUMMARY OF WATER
WELL DATA COMPILED BY BEDROCK UNIT.
THE MAP IS NOT PROBABALISTIC AND
SHOULD NOT BE USED TO PREDICT
YIELD OR DEPTH.

LEGEND

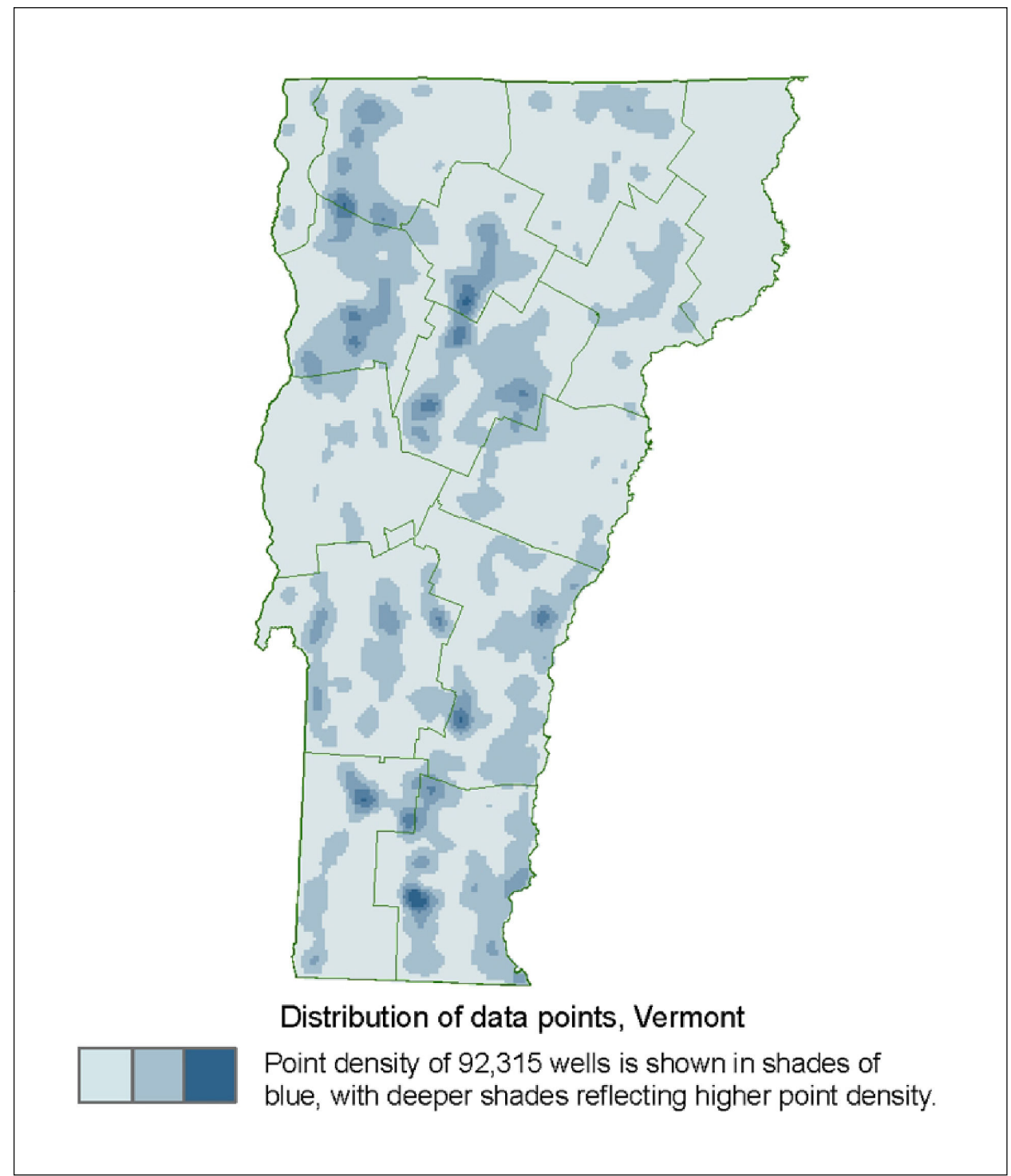
Mean yield (gpm) by rock unit (symbology from 1961 Centennial Geologic Map of Vermont).

2 - 4.99 gpm	Cog Oha Oos nhd pCgn
5 - 9.99 gpm	Cht Dgm Oof Cpgc DI Op Csc nhb Opa Cscz Oa Opv Cuc ou Osp Cuf Ogs pCg Cufb Oh pCsg Cufp Oi Sc
10 - 14.99 gpm	?Ccg Crb hu Omu ?Ccm Cs Oal Omw ?Ccr Co Oc Oop Cbh Cp Ocb pC Cbr Csa Ocbe pCsq Cdt Cscb Och Ss Ch Cu Ocu udp Chm Cua Ocw us Cho Cub Ogo wd Chog Cug Ohg we Chop Dg Omb wg Chw Dga Omc wle Cpc DSn Omh wn Cpg Dws Omhb ws Cph Dwb Omm vv
15 - 19.99 gpm	Cc Csr OCsg Ccs Csm Ohl Cd Ct Omco Cda Cuj Omcr Cf Ow Omr Chb Dwa Omic Chg Dwc Omid Cm Dw Omiv Cpt nhu Oml Cpa OCs Os Csh OCsc pCm
20 - 34.57 gpm	Cmo Dgh Ob Obb Cuw
Oor - no data	
Fault - Thrust, normal or reverse	
Water body	
County Boundary	
Town Boundary	
Interstate Highway	
US Highway, VT State Highway or Class 1 Town Highway	

DATA AND DATA SOURCES:
Number of wells: 92,315
Number of located wells: 10,807
Mean yield, all wells: 13.76 gpm
Median yield, all wells: 6 gpm
Mean depth, all wells: 293.02 ft.
Median depth, all wells: 260 ft.

The well data used in this study is a derivative set of the Vermont Dept. of Environmental Conservation Water Supply Division (WSD) well driller database. The location of the data points is from 1) well driller maps and written descriptions, 2) E911 addresses (3100 wells), and 3) GPS measurements (7707 wells). Only 12% of the wells have a reliable location. Of the 92,315 wells, most are completed in bedrock, although many have no entry in the "well type" data field. Some corrections were made to the database where numerical errors were obvious and could be reconciled with a driller report. Some well yield values may be inflated due to difficulty in accurately measuring high yields. No attempt was made to discern the rock type in which a well was actually completed as compared to the rock type at the surface. Where units are thin and shallow dipping, it is possible that a well penetrates one or more formations. Point density is shown in shades of blue, with deeper shades reflecting higher point density.

Bedrock map units from the USGS digital data from the 1961 Centennial Geologic Map of Vermont, scale 1:250,000. Reference: USGS Open-File Report 2006-1272 Preliminary Integrated Geologic Map Databases for the United States: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, Rhode Island and Vermont <http://pubs.usgs.gov/of/2006/1272/>



Mean Yield (gpm) of Water Wells Compiled by Bedrock Unit, Vermont.

by
Marjorie Gale, Ryan Knox, George Springston, and Laurence Becker
2009