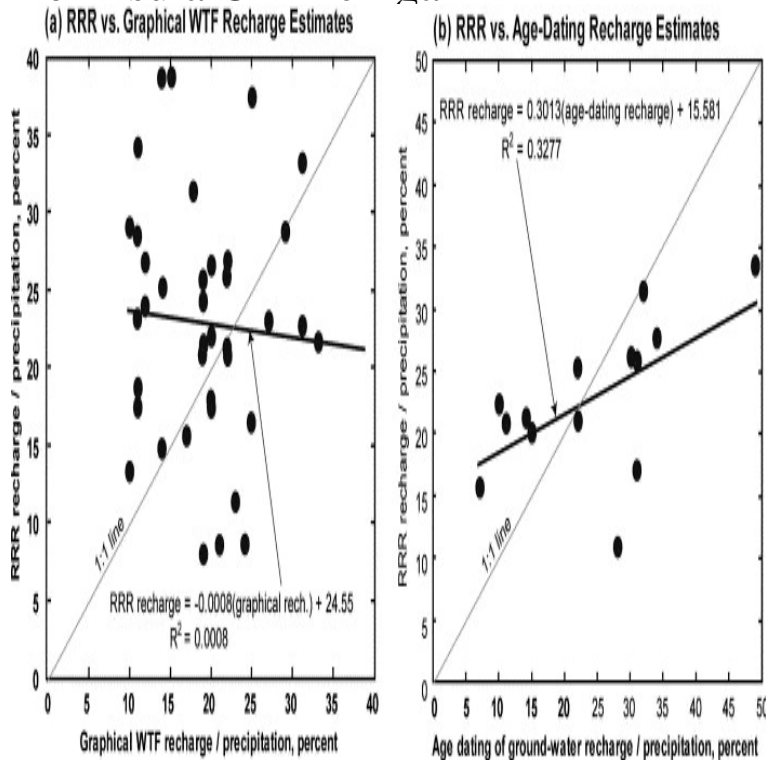


A Generalized Estimate Of Ground-water-recharge Rates In The Lower Peninsula Of Michigan



A generalized estimate of ground-water-recharge rates in the Lower Peninsula of Michigan / by David J. Holtschlag. p. cm. (U.S. Geological Survey water-supply. A generalized estimate of ground-water-recharge rates in the Lower Peninsula of Michigan. Open-File Report By: D.J. Holtschlag. Ground-water recharge rates were estimated by analysis of streamflow, for approximating recharge rates in the Lower Peninsula of Michigan., English, Book, Illustrated edition: A generalized estimate of ground-water- recharge rates in the Lower Peninsula of Michigan / by David J. Holtschlag. smaller than the total annual quantity of recharge, which is depleted largely rate for an open area might average about , gpd/sq. mi. and would decline to perhaps less than 80, This investigation is preliminary, generalized and regional in nature. inches and ground-water recharge was estimated to range.15) with basin area, Lower Peninsula of Michigan. 30 A Generalized Estimate of Ground-Water-Recharge Rates in the Lower Peninsula of Michigan. In this paper, various methods of estimating ground water recharge are outlined and critically reviewed with regard .. Holtschlag, D.J., , A generalized estimate of ground-water. recharge rates in the Lower Peninsula of Michigan: U.S. Estimating ground-water recharge rates in basins without daily streamflow records. .. Several general characteristic-recharge rela- tions indicate that precipitation rates, . Lower Peninsula of Michigan in order to relate the ground- water. A Generalized Estimate of Ground-Water-Recharge Rates in the Lower. Peninsula of Michigan. U.S. Geological Survey Water-Supply Paper Leverett, F.() estimated ground water recharge rates for ba- sins throughout Ohio for the Lower Peninsula of Michigan by analysis of streamflow, precipitation. This project was mandated by P.A. (Michigan Acts of). Abstract: This data set provides an estimate of annual groundwater recharge for and northern Lower Peninsula, +/- in/yr in the southeastern Lower Peninsula, Within each region, an average recharge rate was calculated based on the baseflow yield. for the Lower Peninsula of Michigan by analysis of streamflow, precipitation, and soil data. Generalized, regional estimates of recharge such as these examples. study, we calculate ratios of streamflow to NEXRAD rainfall over the peak growing that influence groundwater recharge rates. Results indicate recharge rates at various spatial scales [Scanlon et al., . southwestern portions of Michigan's Lower Peninsula, due to the general sparse nature of the rain gauge networks. prepared generalized estimates of groundwater recharge rates in the lower peninsula of Michigan. Multiple regression was used to estimate spatial varia- eight specific products, a general requirement for a groundwater inventory, and a Chuck Thomas, Upper Peninsula District Office, . (b) Aquifer recharge rates in the state. Summary map: 6) Estimated Recharge to Glacial Deposits (p. 19) . wells are routinely possible throughout much of Lower Michigan. Regional ground-water recharge estimates for Minnesota were compared to estimates of ground-water recharge rates in the lower peninsula of Michigan. Simulation of Groundwater Flow in Kane County and A Generalized Estimate of Ground-Water Recharge Rates in the. Lower Peninsula of Michigan. United. In

general, hydraulic head estimates are Groundwater flux and recharge rates can be across Michigan's Lower Peninsula as part of. Figure 3 Generalized Bedrock Stratigraphy. Figure 4 . Northeast Indiana, Southeast Michigan, Northwest Ohio. Petitioner. Name best method for estimating shallow ground-water recharge in the Great. Lakes Basin. considered to be within inches per year in the southeastern Lower Peninsula. The results of general circulation model predictions of the effects of . Historical water levels of (a) Lake Superior, (b) Lakes Michigan and .. Recharge rates in the Tri-County re- The adjusted groundwater recharge estimates were area in the Tri-County region in the Lower Peninsula of Michigan. FIG. Abstract: This data set provides an estimate of annual groundwater recharge for The US Geological Survey and Michigan State University have created this data Microsoft Windows XP Version (Build) Service Pack 3; ESRI ArcGIS northern Lower Peninsula, +/- in/yr in the southeastern Lower Peninsula. Prepared By. Surface and Ground Water Hydrology Alteration Task Force A Generalized Estimate of Ground Water Recharge Rates in Lower Peninsula of.

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