

THIS IS A PRELIMINARY EXPERIMENTAL COMPUTER MAP, AND HAS NOT BEEN EDITED FOR CONFORMITY WITH U.S. GEOLOGICAL SURVEY STANDARDS OR NOMENCLATURE.

EXPLANATION

COMPUTER COMPOSITE MAPPING

SOURCE MAPS ARE STORED IN THIS MANNER TO FACILITATE OVERLAYING OR COMPOSITING, WHICH IS DONE ON A CELL-BY-CELL BASIS BY SUMMING THE NUMERIC VALUES ASSIGNED TO THE INDIVIDUAL VARIABLE UNITS WHICH OCCUR IN EACH CELL WHEN SEVERAL VARIABLE CLASSES ARE COMPOSITED. THE DATA ANALYSIS PARAMETERS BELOW SHOW THE VALUES ASSIGNED TO THE VARIABLE UNITS DISPLAYED ON THIS MAP.

VARIABLE UNIT		WEIGHTING SCHEME	WEIGHT
VARIABLE	CLASS	CODE	
	CLASS 50, SURFACE WATER		
	STREAMS AND RESERVOIRS	0001 - 0100	1
VARIABLE	CLASS 20, SURFACE MATERIALS		
	ARTIFICIAL FILL	1000	2
	ADJUST	2000	2
	UPLAND GRAVEL	3000	2
	COSTAL PLAIN STRATA	4000	2
	SAPROLITE CLAY	5000	2
	PHILLITE (EXCESSIVELY DRAINED)	6000	2
	CHERT (WELL DRAINED)	7000	2
	CONGLOMERATE (WELL DRAINED)	8000	2
	KNESSE (WELL DRAINED)	9400	2
	NAT'L (POORLY DRAINED)	9500	2
	CLAYSTONE (POORLY DRAINED)	9600	2
	SHALLOW BEDROCK	9700	2
	CRYSTALLINE BEDROCK	6000	4
	SEDIMENTARY BEDROCK	7000	4

(1) THERE IS UNCORRECTED DISTORTION IN THIS COMPUTER MAP, CAUSED BY THE DIFFERENCE IN DIMENSION RATIOS BETWEEN AN ACTUAL 5 SECOND BY 5 SECOND CELL AND THE PRINTER SYMBOL USED TO REPRESENT THE CELL. THESE DIMENSION RATIOS (HORIZONTAL DISTANCE DIVIDED BY VERTICAL DISTANCE) ARE 1.78 FOR THE 5 SECOND BY 5 SECOND CELL AND 1.47 FOR THE PRINTER SYMBOL. THIS DIFFERENCE RESULTS IN A VERTICAL SCALE OF 1:48,566, AND A "HORIZONTAL SCALE" OF 1:47,370. IF BOTH OF THESE SCALES ARE CORRECTED TO 1:48,000, THE MAP HAS A NET 2.5% STRETCH IN THE HORIZONTAL DIMENSION, AND EACH CELL ON THE MAP IS 9/8 FEET WIDER THAN THE 5 SECOND BY 5 SECOND CELL IT REPRESENTS.

FRIGELICH, A. J., 1974, SURFACE MATERIALS MAP OF MONTGOMERY COUNTY, MARYLAND:
U.S. GEOL. SURVEY OPEN FILE REPORT 74-154.

IMPORTANCE FACTOR 10

54444444444433333333322222222211111111100000000 PERCENT OF TOTAL NUMBER OF CELLS

[illegible]