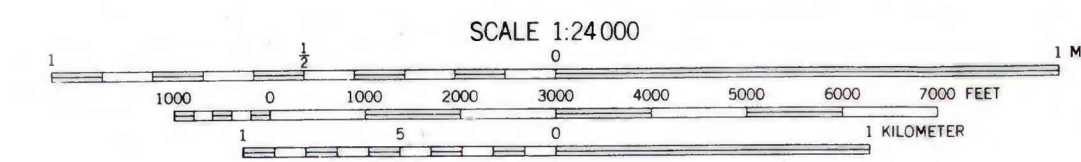


PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

SURFICIAL GEOLOGIC MAP OF THE STROUDSBURG QUADRANGLE, PENNSYLVANIA - NEW JERSEY



EXPLANATION

Deposits of Wisconsin age are not necessarily listed in chronological order.

- SLATE DUMP**
- ALLUVIUM**
Silt, sand and gravel in river-bed and floodplain deposits of present streams.
- TALUS**
Accumulation of angular blocks of Shawangunk quartzite and conglomerate at base of south slope of Kittatinny and Blue Mountains. Scattered occurrences elsewhere not mapped.
- SWAMP DEPOSITS**
Organic matter and clay, probably with disseminated silt and sand, in poorly drained areas.
- ALLUVIAL FAN DEPOSITS**
Fan-shaped sand and gravel deposits at mouths of streams.
- STRATIFIED DRIFT**
- DELTA DEPOSITS**
Gravel, sand, silt, and some clay that generally coarsen upwards in flat-topped deposits, generally having lobate distal slopes and ice-contact proximal slopes that may include an esker (Qe), and with topset and foreset bedding that generally grades into bottomsets (lake-bottom deposits); deposited in temporary glacial lakes. Some deposits appear to lack ice-contact proximal slopes, but kettle holes suggest the former existence of buried ice blocks.
- GLACIAL LAKE-BOTTOM DEPOSITS**
Versed clay, silt, and fine sand deposited on floor of temporary glacial lakes; some interbedded coarser sand and gravel.
- KAME DEPOSITS**
Connected and isolated conical or irregularly shaped hills of variably sorted and stratified sand, gravel, silt, and clay; associated with kettles. Some deposits are linear ridges that lie adjacent a valley (living kame or kame moraine). Some fine material probably deposited in small temporary lakes.
- KAMF TERRACE DEPOSITS**
Gravel, sand, and silt with some clay of variable sorting and stratification in flat-topped deposits against valley walls. Some fine sand, silt, and clay probably deposited in temporary ponds.
- OUTWASH DEPOSITS**
Predominantly crossbedded to planar-bedded sand and gravel deposited by melt-water streams in valleys (valley train deposits). May include or grade into deltaic deposits where the site of deposition in the stream valley was temporarily dammed by ice.
- END MORAINE**
Bell-like accumulation of till with low linear ridges and depressions, believed to mark an ice-front position.
- GROUND MORAINE**
Mantle of till of variable thickness having irregular topography of low relief which is devoid of linear elements. Contains minor stratified sand and gravel that may be abundant locally.
- TERMINAL MORAINE OF WISCONSIN ICE SHEET**
(Bangor Moraine)
Conspicuous belllike ridge of till with some sand and gravel deposited in front of the Wisconsin glacier; up to 300 feet high, with many depressions and linear elements of topography.
- OLDER DRIFT**
Deeply leached and oxidized muddy till lacking constructional topography.
- AREAS OF BEDROCK EXPOSURE, BEDROCK FLOAT, OR BEDROCK MANTLED WITH THIN DRIFT**

- Contact**
Dashed where transitional or approximately located.
- Scarp between similar deposits of different age**
Line is at base of scarp, hachure points toward older deposits. Dashed where approximately located.
- Limit of Wisconsin ice-contact drift**
Dashed where approximately located.
- Glacial grooves and striae**
Indicates inferred direction of glacial flow. Point of observation is at tip of arrow.
- Melt-water channel**
- Inferred position of active or stagnant ice front during deglaciation phase**
Number is keyed to phases of deglaciation described in text.
- Erratic**
Maximum diameter generally greater than 10 feet.
- Sand and gravel pit**
- Thickness of drift, in feet**
- Thickness of drift reported in water well, in feet**
- Sample locality of Epstein (1969)**
- Station locations along U.S. Route 209 described in figure 6 of Epstein (1969)**

RECENT
PLEISTOCENE
WISCONSIN
ILLINOIAN (?)

QUATERNARY
PRE-QUATERNARY

LOCATION OF AREA

1	11	21	31	41	51	61	71	81	91	101	111	121	131	141	151	161	171	181	191	201	211
2	12	22	32	42	52	62	72	82	92	102	112	122	132	142	152	162	172	182	192	202	212
3	13	23	33	43	53	63	73	83	93	103	113	123	133	143	153	163	173	183	193	203	213
4	14	24	34	44	54	64	74	84	94	104	114	124	134	144	154	164	174	184	194	204	214
5	15	25	35	45	55	65	75	85	95	105	115	125	135	145	155	165	175	185	195	205	215
6	16	26	36	46	56	66	76	86	96	106	116	126	136	146	156	166	176	186	196	206	216
7	17	27	37	47	57	67	77	87	97	107	117	127	137	147	157	167	177	187	197	207	217
8	18	28	38	48	58	68	78	88	98	108	118	128	138	148	158	168	178	188	198	208	218
9	19	29	39	49	59	69	79	89	99	109	119	129	139	149	159	169	179	189	199	209	219