

EXPLANATION

- AM23** Nonplastic sandy soil derived from fluvial deposits of Pleistocene age
- AM24** Nonplastic to slightly plastic sandy and silty soil derived from fluvial deposits of Pleistocene age
- AM25** Nonplastic to highly plastic sandy and clayey soil derived from fluvial deposits of Pleistocene age
- Z** Swamp deposits
- AR/2** Flood-plain deposits associated with swamp deposits
- AM23/24** Nonplastic to slightly plastic sandy soil derived from fluvial deposits of Pleistocene age associated with AM23 soil
- AM24/26** Nonplastic to slightly plastic sandy soil derived from fluvial deposits of Pleistocene age associated with AM24 soil
- AM23/24** AM23 soil associated with AM24 soil
- AM23/26** AM23 soil associated with nonplastic to slightly plastic sandy (poorly graded) and silty soil derived from fluvial deposits of Pleistocene age
- AM24/26** AM24 soil associated with AM26 soil
- AM24/46** AM24 soil associated with slightly plastic silty and clayey soil derived from fluvial deposits of Pleistocene age
- AM24/48** AM24 soil associated with slightly plastic to highly plastic silty and clayey soil derived from fluvial deposits of Pleistocene age
- 1E** Primary soil sample site
Location and number of primary sites from which soil samples were obtained for laboratory analyses (See table 2). Samples were collected with a six-inch-diameter soil sampler. General characteristics are summarized in table 1.
- 2E** Secondary soil sample site
Location and number of secondary soil sample sites. Samples were obtained with a one-inch-diameter long-core soil sampler. For results of laboratory analyses see table 2. For soil characteristics see table 1.
- 47** Secondary observation well
Nonsaturator is altitude of water table in November 1959. Nonsaturator shows estimated range in altitude of water table during 1950-62 based on measurements from 1950 to 1962 and comparison with primary observation-well records.
- 57** Domestic or farm well
Nonsaturator is altitude of water table in November 1959. Nonsaturator shows estimated range in altitude of water table during 1950-62 based on measurements from 1950 to 1962 and comparison with primary and secondary observation-well records.
- 50** Water-table contour
Number shows altitude of water table in feet above mean sea level in November 1959. Contour interval 10 feet. Relative position of water table in November 1959 is shown in hydrograph (Figure 2).
- 100** Perennial stream
Bottom of stream channel almost always below water table.
- 100** Intermittent stream
Bottom of stream channel above water table part of the time and below water table part of the time.
- 100** Symbol
AM Surface alluvial material, Pleistocene age
AR Swamp deposit
- 100** SOIL SYMBOLS
The map symbols used in this report to designate the various types of soils are a modification of the system used in the engineering soil survey of New Jersey (Rogers, 1959). The first part of the symbol is a letter, or group of letters, which identifies the parent material according to the classification developed by Loeder (1959) (see table 1). The second part of the symbol is a number which identifies the soil group according to the classification system adopted by the Highway Research Board (Allen and others, 1945) and used with some modification by the Delaware State Highway Department (see table 2). A two-digit number indicates that two soil types are present within the same soil profile; for example, the symbol AM24 implies that both A-2 and A-4 soils are present in the same soil profile, but usually in different horizons. Two different soil symbols may be combined by a diagonal bar (AM2/24). A diagonal bar indicates that two soil types (AM2 and AM24), are present within the same area, but not necessarily within the same profile. The two soils are so finely intermingled that they cannot be mapped separately.
- 100** REFERENCES
Allen, Harold, and others, 1945, Report of committee on classification of materials for subgrade and granular type roads: Highway Research Board, 25th Ann. Mtg., Oklahoma City, 1945, Highway Research Board Proc., v. 25, p. 375-385, Washington.
Loeder, D. R., 1959, A system for designating map units on engineering soil maps in soil exploration and mapping: Highway Research Board Bull. 28, p. 17-35, Washington.
Rogers, F. C., 1959, Engineering soil survey of New Jersey, Report No. 1, Rutgers Univ. Eng. Research Bull. 15, 114 p., New Brunswick, N. J.

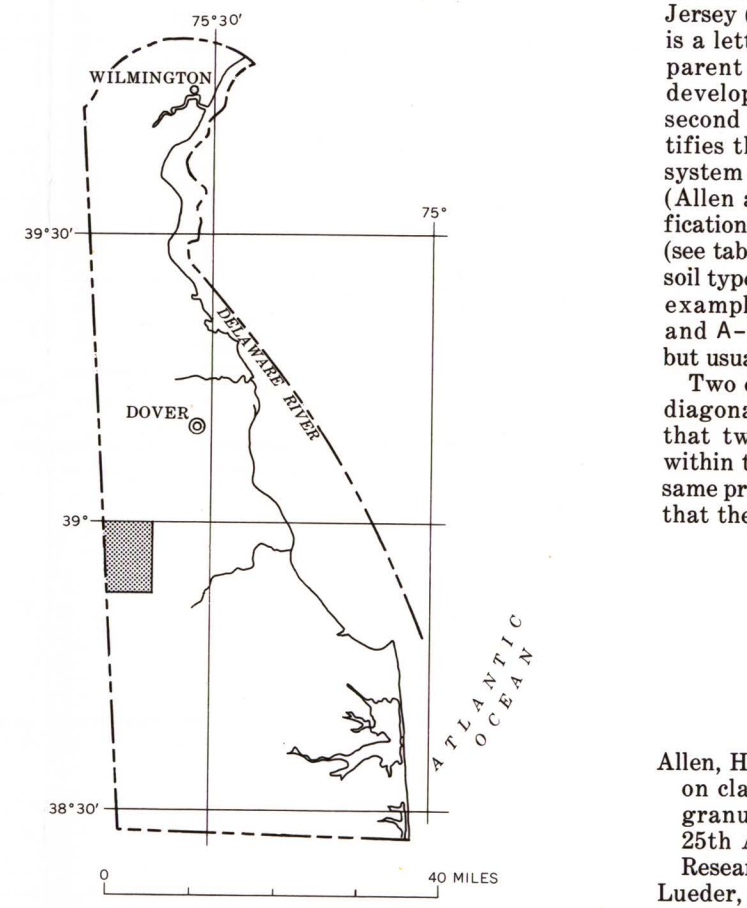


FIGURE 1.—Index map of Delaware showing location of the Burrsville area

Primary soil sample site

One or more of primary sites from which soil samples were collected with $\frac{1}{4}$ -inch-diameter auger. **1** Sample was collected with a standard $\frac{1}{4}$ -inch-diameter auger. General characteristics summarized in table 4

Secondary soil sample site

Area and number of secondary soil sample sites. Samples were collected with a $\frac{1}{4}$ -inch-diameter auger. **2** For results of laboratory tests, see table 4. **3** General characteristics summarized in table 4

Secondary observation well

Site at altitude of water table in November 1956. **1** Estimated range in altitude of water table during 1950-55 on average. **2** For results of laboratory tests, see table 4. **3** General characteristics summarized in table 4

Domestic or farm well

Site at altitude of water table in November 1956. **1** Estimated range in altitude of water table during 1950-55, on 1-m or 2-m measurements and comparisons with ary and secondary observation-well records

Water-table contour

Line showing estimated range in altitude of water level in November 1956. Contour interval 1 m. For 1-m measurements and comparisons with ary and secondary observation-well records

Perennial stream

Line of stream channel about 100 yards below water table

Intermittent stream

Line of stream channel above water table part of the time and below water table part of the time

Swamp deposit

Line of swamp deposit

Surficial alluvial material, Pleistocene age

Recent alluvial deposit

Soil symbols

map symbols used in this report to designate types of soils are a modification of the used in the engineering soil survey of New (Rogers, 1955). The first part of the symbol or group of letters, which identifies the material according to the classification used by Leeder (1950) (see table 1). The second part of the symbol, a number which identifies the soil group according to the classification adopted in the engineering soil survey of New (Rogers, 1955) and used with some modification by the Delaware State Highway Research Center. A two-digit number indicates that two are present in the same soil profile, and the symbol AM24 implies that for A-2 and A-4 soils are present in the same soil profile, for example. The symbol AM24 implies that for A-2 and A-4 soils are present in the same soil profile, for example. The symbol AM24 implies that for A-2 and A-4 soils are present in the same soil profile, for example. 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TABLE 2 — Soils classification													
General classification		Granular materials (35 percent or less passing a No. 200 sieve)						Silt-clay materials (more than 35 percent passing a No. 200 sieve)					
Group classification	A-1		A-3	A-2			A-7						
	a	b		4	5	6	7	A-4	A-5	A-6	5 ¹	6 ²	A-8
Sieve analyses													
Percent passing													
No. 10 sieve	50 max		51 min										
No. 40 sieve	30 max												
No. 200 sieve	15 max	25 max		35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min	36 min	
Characteristics of fraction passing													
Friction angle													
Liquid limit													
Plasticity index	6 max	6 max	Nonplastic	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min	40 min	42-40
Group index ³	0		0	0		4 max		8 max	12 max	16 max		20 max	
General subgrade rating													
Material	Well-graded gravel and sand		Clean sand and gravelly sand	Poorly graded, silty or clayey sand and gravel			Silty soil	Poor	Poor	Poor	Very poor	Unsatisfactory	Muck-peat

¹ Plasticity index of A-7-5 subgroup is equal to or less than the liquid limit minus 30.

² Plasticity index of A-7-6 subgroup is greater than the liquid limit minus 30.

The group index is calculated according to the following formula:

Group index = $0.2a + 0.004ac + 0.01bd$

in which:

a = That portion of the percentage passing No. 200 sieve greater than 35 percent and not exceeding 75 percent, expressed as a positive whole number (1 to 40).

b = That portion of the percentage passing No. 200 sieve greater than 15 percent and not exceeding 50 percent, expressed as a positive whole number (1 to 40).

c = That portion of the numerical liquid limit greater than 40 and not exceeding 60, expressed as a positive whole number (1 to 40).

d = That portion of the numerical plasticity index greater than 10 and not exceeding 30, expressed as a positive whole number (1 to 20).

TABLE 3 — Results of laboratory analyses of soil samples														
Sample number	Depth of interval sampled (inches)	Liquid limit: NL, nonliquid							Plasticity index: NP, nonplastic					
		Mechanical analyses					Percent by weight	Liquid limit ¹	Plasticity index ²	Moisture density				
		Cumulative percent by weight passing—	No. 4 (4.75 mm)	No. 10 (2.0 mm)	No. 300 (0.075 mm)	Silt (0.002 to 0.006 mm)				Clay (<0.0006 mm)	Maximum density (lb per cu ft)	Optimum moisture ³ (percent by weight)	H.R.B. Classification ⁴	Map Symbol ⁵
127	0-12	0	100	99.8	82.4	58.5		<40	<10				A-4 (3)	
	12-24	100	100	99.8	84.4	53.8	39	13	131	8		A-4 (3)	AM24	
	24-36	100	100	99.8	84.4	53.8						A-4 (3)		
	36-72	100	100	99.8	82.4	58.5						A-4 (3)		
	72-108	100	100	99.8	82.4	58.5						A-4 (3)		
128	0-12	100	100	99.8	82.4	58.5	38	13	131	8		A-4 (3)	AM24	
	12-24	100	100	99.8	82.4	58.5						A-4 (3)		
	24-36	100	100	99.8	82.4	58.5						A-4 (3)		
	36-72	100	99.9	99.7	79.6	29.9	14	15	24	6	134	7	A-3 (4)	AM2
	72-108	100	99.8	98.4	71.3	40.9						A-3 (4)		
130	0-12	100	100	99.7	87.8	45.9						A-4 (2)		
	12-24	100	100	99.7	87.8	45.9						A-4 (2)	AM24	
	24-36	100	100	99.7	87.8	45.9						A-4 (2)		
	36-72	100	100	99.7	92.8	38.6						A-4 (3)		
	72-108	100	100	99.7	92.8	38.6						A-4 (3)		
131	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	86.8	49.7		25	11			A-4 (3)	AM26	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
132	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
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133	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
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	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
134	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
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	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
135	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
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	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
137	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
138	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
139	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
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	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
140	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
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	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
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	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
143	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
144	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
145	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
146	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
147	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
148	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
149	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0						A-4 (3)		
	72-108	100	100	99.8	84.0	60.0						A-4 (3)		
150	0-12	100	100	99.8	84.0	60.0	<40					A-4 (3)		
	12-24	100	100	99.8	84.0	60.0						A-4 (3)	AM4	
	24-36	100	100	99.8	84.0	60.0						A-4 (3)		
	36-72	100	100	99.8	84.0	60.0								