

### Depth to water in 13 water-table wells in Delaware

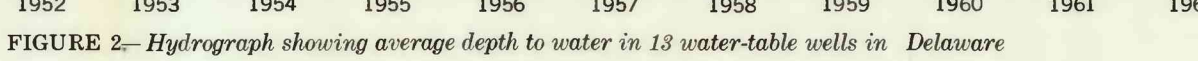


FIGURE 2.—Hydrograph showing average depth to water in 13 water-table wells in Delaware

General classification	Granular materials (30% or less passing at No. 20 sieve)										Silty-clay materials (More than 35 percent passing No. 20 sieve)				
Group classification	A-1					A-2					A-3	A-4	A-5	A-6	A-7
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Percent passing No. 20 sieve	50 max.	25 max.	10 max.	5 max.	5 max.	10 max.	15 max.	20 max.	35 max.	40 max.	40 max.	35 max.	30 max.	25 max.	20 max.
Percent passing No. 40 sieve	25 max.	10 max.	5 max.	5 max.	5 max.	10 max.	15 max.	20 max.	35 max.	40 max.	40 max.	35 max.	30 max.	25 max.	20 max.
Percent passing No. 100 sieve	10 max.	5 max.	5 max.	5 max.	5 max.	10 max.	15 max.	20 max.	35 max.	40 max.	40 max.	35 max.	30 max.	25 max.	20 max.
Plasticity characteristics															
Liquid limit	5 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.	6 max.
Plasticity index	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Group index	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemical ingredients															
Organic	Excellent	Good	Good	Good	Good	Good	Good	Fair	Poor	Poor	Poor	Poor	Poor	Poor	Unsatisfactory
Material															
Well-graded	Clean sand					Poorly graded, silty or clayey sand					Silty sand				
Poorly graded	Clean sand					Poorly graded, silty or clayey sand					Silty sand				
Plastic	Clean sand					Poorly graded, silty or clayey sand					Silty sand				
Nonplastic	Clean sand					Poorly graded, silty or clayey sand					Silty sand				

Sample and test num.	Depth of sample m	Mechanical analysis						Plasticity index IP	Plasticity index IP	Moisture-density*		Classification	
		Cumulative percent by weight				Percent by weight of clay ( $<0.0075$ mm)	Maximum density ( $\text{t/m}^3$ )			Optimum moisture content (%)	FHIS*	Type	
		3/8 in. (4.75 mm)	No. 4 (2.0 mm)	No. 10 (0.425 mm)	No. 20 (0.075 mm)								
203	0-12	100	100	99.5	98.1	61.5	47	22	NP	120	8	A-4	(3)
	12-27	100	100	100	98.2	79.3	25	22	5	100	10	A-4	(3)
	27-30	100	100	100	98.2	56.6	—	1	3	100	11	A-4	(3)
207	0-12	100	100	99.5	98.1	61.5	—	NP	NP	120	8	A-4	(3)
	12-27	100	100	99.5	98.2	79.3	—	NP	NP	120	8	A-4	(3)
	27-30	100	99.5	94.0	79.3	56.6	—	NP	NP	120	7	A-4	(3)
209	0-12	100	100	99.5	98.1	61.5	—	NP	NP	120	8	A-4	(3)
	12-27	100	100	99.5	98.2	79.3	—	NP	NP	120	8	A-4	(3)
	27-30	100	100	99.5	98.2	56.6	—	NP	NP	120	8	A-4	(3)
211	0-12	100	100	99.5	98.1	61.5	—	NP	NP	120	8	A-4	(3)
	12-27	100	100	99.5	98.2	79.3	—	NP	NP	120	8	A-4	(3)
	27-30	100	100	99.5	98.2	56.6	—	NP	NP	120	8	A-4	(3)
1A	0-12	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
	12-27	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
	27-30	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
1C	0-12	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
	12-27	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
	27-30	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
1E	0-12	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
	12-27	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
	27-30	100	100	100	100	100	—	< 40	NP	—	—	A-4	(3)
2A	0-12	100	100	99.5	98.1	61.5	—	< 40	NP	—	—	A-4	(3)
	12-27	100	100	99.5	98.2	79.3	—	< 40	NP	—	—	A-4	(3)
	27-30	100	100	99.5	98.2	56.6	—	< 40	NP	—	—	A-4	(3)
2E	0-12	100	100	99.5	98.1	61.5	—	< 40	NP	—	—	A-4	(3)
	12-27	100	100	99.5	98.2	79.3	—	< 40	NP	—	—	A-4	(3)
	27-30	100	100	99.5	98.2	56.6	—	< 40	NP	—	—	A-4	(3)
3B	0-12	100	100	99.5	98.1	61.5	—	< 40	NP	—	—	A-4	(3)
	12-27	100	100	99.5	98.2	79.3	—	< 40	NP	—	—	A-4	(3)
	27-30	100	100	99.5	98.2	56.6	—	< 40	NP	—	—	A-4	(3)
3C	0-12	100	100	99.5	98.1	61.5	—	< 40	NP				

[illegible]

<sup>1</sup> Two different soil types may be combined into a single map symbol (AN2/2N), but the engineering characteristics of the individual soil type are described separately.