

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Aa:												
Adrian	0-20	Muck	PT	A-8	0	0	0	0	0	0	---	---
	20-60	Fine sand, Gravelly loamy sand, Sand	SM, SP	A-1, A-2, A-3	0	0	80-100	60-100	30-80	0-35	0-24	NP
AfA:												
Agawam	0-8	Fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	80-100	70-100	30-60	0-25	NP-5
	8-14	Fine sandy loam, Loam, Very fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	75-100	65-100	30-60	0-25	NP-5
	14-24	Fine sandy loam, Very fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	75-100	65-100	30-65	0-20	NP-5
	24-60	Stratified very gravelly coarse sand to fine sand	SM, SP-SM	A-1, A-2, A-3	0	0-10	70-100	25-100	5-95	1-25	0-15	NP
AfB:												
Agawam	0-8	Fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	80-100	70-100	30-60	0-25	NP-5
	8-14	Fine sandy loam, Loam, Very fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	75-100	65-100	30-60	0-25	NP-5
	14-24	Fine sandy loam, Very fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	75-100	65-100	30-65	0-20	NP-5
	24-60	Stratified very gravelly coarse sand to fine sand	SM, SP-SM	A-1, A-2, A-3	0	0-10	70-100	25-100	5-95	1-25	0-15	NP
Ba:												
Beaches	---	---	---	---	---	---	---	---	---	---	---	---
Udipsamments, Udipsamments-undulating	---	---	---	---	---	---	---	---	---	---	---	---

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Bc:												
Birchwood	0-10	Sandy loam	SM	A-2, A-4	0	0-5	88-100	72-100	54-79	28-43	0-29	NP-2
	10-24	Gravelly loamy sand, Loamy fine sand, Loamy sand	SM	A-1, A-2	0	0-4	87-100	61-100	47-79	16-28	0-20	NP-1
	24-60	Gravelly fine sandy loam, Gravelly loam, Silt loam	GM, SM	A-2, A-4	0	0-9	73-93	51-93	44-91	20-48	0-27	NP-10
BhA:												
Bridgehampton	0-8	Silt loam	ML	A-4	0	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0	10-30	30-70	25-65	15-40	0-20	0-17	NP
BhB:												
Bridgehampton	0-8	Silt loam	ML	A-4	0	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0	10-30	30-70	25-65	15-40	0-20	0-17	NP

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BmA:												
Bridgehampton	0-8	Silt loam	ML	A-4	0	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0	10-30	30-70	25-65	15-40	0-20	0-17	NP
BmB:												
Bridgehampton	0-8	Silt loam	ML	A-4	0	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0	10-30	30-70	25-65	15-40	0-20	0-17	NP
BnB:												
Bridgehampton	0-8	Very stony silt loam	ML	A-4	1-5	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0-5	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0-5	10-30	30-70	25-65	15-40	0-20	0-17	NP

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BnB:												
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
BnC:												
Bridgehampton	0-8	Very stony silt loam	ML	A-4	1-5	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0-5	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0-5	10-30	30-70	25-65	15-40	0-20	0-17	NP

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BnC:												
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
BoC:												
Bridgehampton	0-8	Extremely stony silt loam	ML	A-4	1-15	1-15	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0-5	0-10	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0-5	10-30	30-70	25-65	15-40	0-20	0-17	NP

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BoC:												
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
BrA:												
Broadbrook	0-8	Silt loam	ML	A-4	0-5	0-5	90-100	80-100	80-100	55-90	15-25	NP-5
	8-14	Gravelly loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM	A-4	0-5	0-5	85-100	75-100	65-100	35-90	15-25	NP-10
	14-25	Gravelly loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM	A-4	0-5	0-5	85-100	75-100	65-100	35-90	15-25	NP-10
	25-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-5	75-100	60-95	45-90	25-50	15-25	NP-10

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	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BrB:												
Broadbrook	0-8	Silt loam	ML	A-4	0-5	0-5	90-100	80-100	80-100	55-90	15-25	NP-5
	8-14	Gravelly loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM	A-4	0-5	0-5	85-100	75-100	65-100	35-90	15-25	NP-10
	14-25	Gravelly loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM	A-4	0-5	0-5	85-100	75-100	65-100	35-90	15-25	NP-10
	25-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-5	75-100	60-95	45-90	25-50	15-25	NP-10
BsB:												
Broadbrook	0-8	Silt loam	ML	A-4	0-5	0-5	90-100	80-100	80-100	55-90	15-25	NP-5
	8-14	Gravelly loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM	A-4	0-5	0-5	85-100	75-100	65-100	35-90	15-25	NP-10
	14-25	Gravelly loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM	A-4	0-5	0-5	85-100	75-100	65-100	35-90	15-25	NP-10
	25-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-5	75-100	60-95	45-90	25-50	15-25	NP-10

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CaC:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Rock outcrop	0-1	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CaD:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Rock outcrop	0-1	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CB:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Urban land	0-6	Variable	---	---	---	---	---	---	---	---	---	---
CC:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Urban land	0-6	Variable	---	---	---	---	---	---	---	---	---	---

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CdA:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CdB:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CdC:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CeC:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
ChB:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
ChC:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
ChD:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CkC:												
Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Charlton	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
	4-7	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	7-19	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	19-27	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
	27-65	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Co:												
Carlisle	0-66	Muck	PT	A-8	0	0-30	---	---	---	---	---	---

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Dc:												
Deerfield	0-8	Loamy fine sand	SM	A-2	0	0	100	85-100	70-90	20-30	0-20	NP
	8-16	Fine sand, Loamy fine sand, Loamy sand	SM	A-2	0	0	100	85-100	55-90	15-25	0-20	NP
	16-28	Fine sand, Loamy fine sand, Loamy sand	SM	A-2	0	0	100	85-100	55-90	15-25	0-20	NP
	28-34	Fine sand, Loamy sand, Sand	SM	A-2	0	0	100	85-100	70-80	15-25	0-15	NP
	34-60	Coarse sand, Fine sand, Loamy sand	SM, SP, SP-SM	A-1, A-2	0	0	100	80-100	20-85	2-30	0-15	NP
Du:												
Dumps	---	---	---	---	---	---	---	---	---	---	---	---
EfA:												
Enfield	0-3	Slightly decomposed plant material	PT	---	0	0	100	100	100	100	---	---
	3-4	Moderately decomposed plant material	PT	---	0	0	100	100	100	100	---	---
	4-12	Silt loam	ML	A-4	0	0	100	90-100	90-100	60-95	15-25	NP-5
	12-20	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	20-26	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	26-30	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	30-37	Stratified coarse sand to very gravelly loamy sand	SM, SP-SM	A-1, A-2, A-3	0	0	70-100	25-100	10-95	5-25	15-25	NP-5
	37-65	Stratified very gravelly coarse sand to loamy sand	SM, SP	A-1, A-3	0	0-15	75-100	30-100	5-95	1-35	10-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
EfB:												
Enfield	0-3	Slightly decomposed plant material	PT	---	0	0	100	100	100	100	---	---
	3-4	Moderately decomposed plant material	PT	---	0	0	100	100	100	100	---	---
	4-12	Silt loam	ML	A-4	0	0	100	90-100	90-100	60-95	15-25	NP-5
	12-20	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	20-26	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	26-30	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	30-37	Stratified coarse sand to very gravelly loamy sand	SM, SP-SM	A-1, A-2, A-3	0	0	70-100	25-100	10-95	5-25	15-25	NP-5
	37-65	Stratified very gravelly coarse sand to loamy sand	SM, SP	A-1, A-3	0	0-15	75-100	30-100	5-95	1-35	10-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
GBC:												
Gloucester	0-4	Gravelly sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	55-75	30-50	0-20	NP
	4-12	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-80	55-70	40-65	20-35	0-20	NP
	12-25	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-15	10-15	50-60	35-55	15-45	5-10	0-15	NP
	25-35	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
	35-60	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
Bridgehampton	0-8	Very stony silt loam	ML	A-4	1-5	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0-5	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0-5	10-30	30-70	25-65	15-40	0-20	0-17	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
GBD:												
Gloucester	0-4	Gravelly sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	55-75	30-50	0-20	NP
	4-12	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-80	55-70	40-65	20-35	0-20	NP
	12-25	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-15	10-15	50-60	35-55	15-45	5-10	0-15	NP
	25-35	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
	35-60	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
Bridgehampton	0-8	Very stony silt loam	ML	A-4	1-5	0	95-100	95-100	85-100	70-100	15-35	NP-7
	8-41	Silt, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0-5	0	95-100	95-100	85-100	75-100	15-25	NP-5
	41-60	Gravelly loamy sand, Gravelly sand, Very gravelly sand	GM, GP, SM, SP	A-1	0-5	10-30	30-70	25-65	15-40	0-20	0-17	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
GhC:												
Gloucester	0-4	Gravelly sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	55-75	30-50	0-20	NP
	4-12	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-80	55-70	40-65	20-35	0-20	NP
	12-25	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-15	10-15	50-60	35-55	15-45	5-10	0-15	NP
	25-35	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
	35-60	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
Hinckley	0-8	Gravelly sandy loam	SM	A-2, A-4	0-5	1-15	65-85	60-75	45-70	25-50	0-20	NP
	8-20	Gravelly loamy sand, Very gravelly loamy coarse sand, Very gravelly loamy sand, Loamy fine sand	GM, SM	A-1, A-2	0-10	1-15	50-100	40-90	25-90	15-25	0-20	NP
	20-27	Gravelly sand, Very gravelly sand	GM, SM	A-1	1-10	5-20	50-90	40-80	25-50	5-15	0-20	NP
	27-42	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
	42-60	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
GhD:												
Gloucester	0-4	Gravelly sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	55-75	30-50	0-20	NP
	4-12	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-80	55-70	40-65	20-35	0-20	NP
	12-25	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-15	10-15	50-60	35-55	15-45	5-10	0-15	NP
	25-35	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
	35-60	Very gravelly loamy coarse sand, Very gravelly loamy fine sand, Very gravelly loamy sand	GW-GM, SW-SM	A-1	0-20	10-20	50-60	35-55	15-45	5-10	0-15	NP
Hinckley	0-8	Gravelly sandy loam	SM	A-2, A-4	0-5	1-15	65-85	60-75	45-70	25-50	0-20	NP
	8-20	Gravelly loamy sand, Very gravelly loamy coarse sand, Very gravelly loamy sand, Loamy fine sand	GM, SM	A-1, A-2	0-10	1-15	50-100	40-90	25-90	15-25	0-20	NP
	20-27	Gravelly sand, Very gravelly sand	GM, SM	A-1	1-10	5-20	50-90	40-80	25-50	5-15	0-20	NP
	27-42	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
	42-60	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HkA:												
Hinckley	0-8	Gravelly sandy loam	SM	A-2, A-4	0-5	1-15	65-85	60-75	45-70	25-50	0-20	NP
	8-20	Gravelly loamy sand, Very gravelly loamy coarse sand, Very gravelly loamy sand, Loamy fine sand	GM, SM	A-1, A-2	0-10	1-15	50-100	40-90	25-90	15-25	0-20	NP
	20-27	Gravelly sand, Very gravelly sand	GM, SM	A-1	1-10	5-20	50-90	40-80	25-50	5-15	0-20	NP
	27-42	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
	42-60	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
HkC:												
Hinckley	0-8	Gravelly sandy loam	SM	A-2, A-4	0-5	1-15	65-85	60-75	45-70	25-50	0-20	NP
	8-20	Gravelly loamy sand, Very gravelly loamy coarse sand, Very gravelly loamy sand, Loamy fine sand	GM, SM	A-1, A-2	0-10	1-15	50-100	40-90	25-90	15-25	0-20	NP
	20-27	Gravelly sand, Very gravelly sand	GM, SM	A-1	1-10	5-20	50-90	40-80	25-50	5-15	0-20	NP
	27-42	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
	42-60	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HkD:												
Hinckley	0-8	Gravelly sandy loam	SM	A-2, A-4	0-5	1-15	65-85	60-75	45-70	25-50	0-20	NP
	8-20	Gravelly loamy sand, Very gravelly loamy coarse sand, Very gravelly loamy sand, Loamy fine sand	GM, SM	A-1, A-2	0-10	1-15	50-100	40-90	25-90	15-25	0-20	NP
	20-27	Gravelly sand, Very gravelly sand	GM, SM	A-1	1-10	5-20	50-90	40-80	25-50	5-15	0-20	NP
	27-42	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
	42-60	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
HnC:												
Hinckley	0-8	Gravelly sandy loam	SM	A-2, A-4	0-5	1-15	65-85	60-75	45-70	25-50	0-20	NP
	8-20	Gravelly loamy sand, Very gravelly loamy coarse sand, Very gravelly loamy sand, Loamy fine sand	GM, SM	A-1, A-2	0-10	1-15	50-100	40-90	25-90	15-25	0-20	NP
	20-27	Gravelly sand, Very gravelly sand	GM, SM	A-1	1-10	5-20	50-90	40-80	25-50	5-15	0-20	NP
	27-42	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP
	42-60	Stratified cobbly coarse sand to extremely gravelly sand	GM, GP-GM, SM, SP-SM	A-1	1-10	15-35	30-95	20-85	15-50	5-15	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HnC:												
Enfield	0-3	Slightly decomposed plant material	PT	---	0	0	100	100	100	100	---	---
	3-4	Moderately decomposed plant material	PT	---	0	0	100	100	100	100	---	---
	4-12	Silt loam	ML	A-4	0	0	100	90-100	90-100	60-95	15-25	NP-5
	12-20	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	20-26	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	26-30	Silt loam, Very fine sandy loam	ML	A-4	0	0	100	90-100	80-100	40-95	15-25	NP-5
	30-37	Stratified coarse sand to very gravelly loamy sand	SM, SP-SM	A-1, A-2, A-3	0	0	70-100	25-100	10-95	5-25	15-25	NP-5
	37-65	Stratified very gravelly coarse sand to loamy sand	SM, SP	A-1, A-3	0	0-15	75-100	30-100	5-95	1-35	10-20	NP-5
Ip:												
Ipswich	0-11	Peat	PT	A-8	0	0	0	0	0	0	---	NP
	11-46	Mucky peat	PT	A-8	0	0	0	0	0	0	---	NP
	46-70	Mucky peat, Muck	PT	A-8	0	0	0	0	0	0	---	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
LgC:												
Lippitt	0-5	Gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0-5	50-80	45-75	25-60	15-40	0-24	NP
	5-16	Gravelly fine sandy loam, Gravelly sandy loam	GM, SM	A-1, A-2	0	0-10	45-75	40-70	25-60	15-30	0-20	NP
	16-26	Very gravelly loamy sand, Very gravelly sandy loam	GM, GP, GW, GW-GM	A-1	0	5-15	20-55	15-45	7-40	3-25	0-19	NP
	26-72	Weathered bedrock	---	---	0	---	---	---	---	---	---	---
	72-76	Unweathered bedrock	---	---	0	---	---	---	---	---	---	---
Ma:												
Mansfield	0-8	Mucky silt loam	ML, OL	A-4, A-7	0-2	0-5	85-100	80-100	65-95	55-80	15-50	NP-20
	8-15	Channery very fine sandy loam, Loam, Silt loam	GM, ML, SM	A-4, A-6	0	0-10	70-100	65-100	55-95	35-80	15-40	NP-12
	15-60	Channery loam, Gravelly fine sandy loam, Silt loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	55-90	40-80	30-70	15-30	NP-6
Mc:												
Mansfield	0-8	Mucky silt loam	ML, OL	A-4, A-7	0-2	0-5	85-100	80-100	65-95	55-80	15-50	NP-20
	8-15	Channery very fine sandy loam, Loam, Silt loam	GM, ML, SM	A-4, A-6	0	0-10	70-100	65-100	55-95	35-80	15-40	NP-12
	15-60	Channery loam, Gravelly fine sandy loam, Silt loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	55-90	40-80	30-70	15-30	NP-6

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Mk:												
Matunuck	0-12	Mucky peat	PT	A-8	0	0	0	0	0	0	---	NP
	12-18	Fine sandy loam, Loamy sand, Sand	SM, SP-SM, SW-SM	A-2, A-3, A-4	0	0	95-100	85-100	50-80	5-45	0-31	NP
	18-72	Coarse sand, Loamy sand, Sand	SM, SP, SW	A-2, A-3	0	0	95-100	85-100	35-70	0-25	0-14	NP
MmA:												
Merrimac	0-9	Sandy loam	ML, SM	A-2, A-4	0	0	90-100	70-90	45-85	25-60	0-20	NP
	9-16	Fine sandy loam, Sandy loam	SM	A-2, A-4	0	0	90-100	75-90	45-90	25-50	0-25	NP
	16-24	Gravelly sandy loam, Sandy loam	SM	A-2, A-4	0	0	80-100	55-90	35-70	15-50	0-25	NP
	24-60	Stratified very gravelly coarse sand to gravelly sand	SP, SP-SM	A-1	0	10-20	65-85	35-60	35-60	1-15	0-25	NP
MmB:												
Merrimac	0-9	Sandy loam	ML, SM	A-2, A-4	0	0	90-100	70-90	45-85	25-60	0-20	NP
	9-16	Fine sandy loam, Sandy loam	SM	A-2, A-4	0	0	90-100	75-90	45-90	25-50	0-25	NP
	16-24	Gravelly sandy loam, Sandy loam	SM	A-2, A-4	0	0	80-100	55-90	35-70	15-50	0-25	NP
	24-60	Stratified very gravelly coarse sand to gravelly sand	SP, SP-SM	A-1	0	10-20	65-85	35-60	35-60	1-15	0-25	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MU:												
Merrimac	0-9	Sandy loam	ML, SM	A-2, A-4	0	0	90-100	70-90	45-85	25-60	0-20	NP
	9-16	Fine sandy loam, Sandy loam	SM	A-2, A-4	0	0	90-100	75-90	45-90	25-50	0-25	NP
	16-24	Gravelly sandy loam, Sandy loam	SM	A-2, A-4	0	0	80-100	55-90	35-70	15-50	0-25	NP
	24-60	Stratified very gravelly coarse sand to gravelly sand	SP, SP-SM	A-1	0	10-20	65-85	35-60	35-60	1-15	0-25	NP
Urban land	0-6	Variable	---	---	---	---	---	---	---	---	---	---
NaA:												
Narragansett	0-6	Silt loam	ML	A-4	1-5	1-5	90-100	80-100	75-100	55-95	15-25	NP
	6-15	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	60-100	35-95	15-25	NP-5
	15-24	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	24-28	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	28-60	Gravelly loamy sand, Gravelly sand, Very gravelly loamy coarse sand	SM, SP-SM	A-1, A-2	1-15	1-15	70-95	45-85	30-85	10-35	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NaB:												
Narragansett	0-6	Silt loam	ML	A-4	1-5	1-5	90-100	80-100	75-100	55-95	15-25	NP
	6-15	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	60-100	35-95	15-25	NP-5
	15-24	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	24-28	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	28-60	Gravelly loamy sand, Gravelly sand, Very gravelly loamy coarse sand	SM, SP-SM	A-1, A-2	1-15	1-15	70-95	45-85	30-85	10-35	0-15	NP
NbB:												
Narragansett	0-6	Silt loam	ML	A-4	1-5	1-5	90-100	80-100	75-100	55-95	15-25	NP
	6-15	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	60-100	35-95	15-25	NP-5
	15-24	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	24-28	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	28-60	Gravelly loamy sand, Gravelly sand, Very gravelly loamy coarse sand	SM, SP-SM	A-1, A-2	1-15	1-15	70-95	45-85	30-85	10-35	0-15	NP

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Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NbC:												
Narragansett	0-6	Silt loam	ML	A-4	1-5	1-5	90-100	80-100	75-100	55-95	15-25	NP
	6-15	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	60-100	35-95	15-25	NP-5
	15-24	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	24-28	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	28-60	Gravelly loamy sand, Gravelly sand, Very gravelly loamy coarse sand	SM, SP-SM	A-1, A-2	1-15	1-15	70-95	45-85	30-85	10-35	0-15	NP
NcC:												
Narragansett	0-6	Silt loam	ML	A-4	1-5	1-5	90-100	80-100	75-100	55-95	15-25	NP
	6-15	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	60-100	35-95	15-25	NP-5
	15-24	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	24-28	Gravelly loam, Gravelly silt loam, Silt loam, Very fine sandy loam	ML	A-4	1-5	1-5	85-100	65-100	65-100	35-95	15-25	NP-5
	28-60	Gravelly loamy sand, Gravelly sand, Very gravelly loamy coarse sand	SM, SP-SM	A-1, A-2	1-15	1-15	70-95	45-85	30-85	10-35	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NeA:												
Newport	0-8	Silt loam	ML, SM	A-4	0	0-5	80-95	75-90	60-85	40-75	15-35	NP-10
	8-24	Channery loam, Channery silt loam, Very fine sandy loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	60-90	45-85	30-75	15-30	NP-7
	24-65	Channery loam, Channery silt loam, Fine sandy loam	GM, ML, SM	A-2, A-4	0	0-15	60-90	55-85	45-80	25-70	15-25	NP-4
NeB:												
Newport	0-8	Silt loam	ML, SM	A-4	0	0-5	80-95	75-90	60-85	40-75	15-35	NP-10
	8-24	Channery loam, Channery silt loam, Very fine sandy loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	60-90	45-85	30-75	15-30	NP-7
	24-65	Channery loam, Channery silt loam, Fine sandy loam	GM, ML, SM	A-2, A-4	0	0-15	60-90	55-85	45-80	25-70	15-25	NP-4
NeC:												
Newport	0-8	Silt loam	ML, SM	A-4	0	0-5	80-95	75-90	60-85	40-75	15-35	NP-10
	8-24	Channery loam, Channery silt loam, Very fine sandy loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	60-90	45-85	30-75	15-30	NP-7
	24-65	Channery loam, Channery silt loam, Fine sandy loam	GM, ML, SM	A-2, A-4	0	0-15	60-90	55-85	45-80	25-70	15-25	NP-4

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NfB:												
Newport	0-8	Silt loam	ML, SM	A-4	0	0-5	80-95	75-90	60-85	40-75	15-35	NP-10
	8-24	Channery loam, Channery silt loam, Very fine sandy loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	60-90	45-85	30-75	15-30	NP-7
	24-65	Channery loam, Channery silt loam, Fine sandy loam	GM, ML, SM	A-2, A-4	0	0-15	60-90	55-85	45-80	25-70	15-25	NP-4
NoC:												
Newport	0-8	Silt loam	ML, SM	A-4	0	0-5	80-95	75-90	60-85	40-75	15-35	NP-10
	8-24	Channery loam, Channery silt loam, Very fine sandy loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	60-90	45-85	30-75	15-30	NP-7
	24-65	Channery loam, Channery silt loam, Fine sandy loam	GM, ML, SM	A-2, A-4	0	0-15	60-90	55-85	45-80	25-70	15-25	NP-4
NP:												
Newport	0-8	Silt loam	ML, SM	A-4	0	0-5	80-95	75-90	60-85	40-75	15-35	NP-10
	8-24	Channery loam, Channery silt loam, Very fine sandy loam	GM, ML, SM	A-2, A-4	0	0-10	65-95	60-90	45-85	30-75	15-30	NP-7
	24-65	Channery loam, Channery silt loam, Fine sandy loam	GM, ML, SM	A-2, A-4	0	0-15	60-90	55-85	45-80	25-70	15-25	NP-4
Urban land	0-6	Variable	---	---	---	---	---	---	---	---	---	---

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Nt:												
Ninigret	0-8	Fine sandy loam	ML, SM	A-2, A-4	0	0	90-100	70-100	60-100	25-55	0-35	NP-5
	8-16	Fine sandy loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0	0	95-100	75-100	70-100	30-80	0-25	NP-5
	16-26	Fine sandy loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0	0	95-100	75-100	70-100	30-80	0-25	NP-5
	26-65	Stratified very gravelly coarse sand to loamy fine sand	SM, SP	A-1, A-2, A-3	0-10	0-15	70-100	35-100	5-95	1-30	0-15	NP
PaA:												
Paxton	0-8	Fine sandy loam	SM	A-4	0-5	0-10	90-95	85-90	75-90	35-50	10-25	NP-5
	8-15	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	15-26	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	26-65	Fine sandy loam, Gravelly fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
PaB:												
Paxton	0-8	Fine sandy loam	SM	A-4	0-5	0-10	90-95	85-90	75-90	35-50	10-25	NP-5
	8-15	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	15-26	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	26-65	Fine sandy loam, Gravelly fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
PbB:												
Paxton	0-8	Fine sandy loam	SM	A-4	0-5	0-10	90-95	85-90	75-90	35-50	10-25	NP-5
	8-15	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	15-26	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	26-65	Fine sandy loam, Gravelly fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
PbC:												
Paxton	0-8	Fine sandy loam	SM	A-4	0-5	0-10	90-95	85-90	75-90	35-50	10-25	NP-5
	8-15	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	15-26	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	26-65	Fine sandy loam, Gravelly fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
PcC:												
Paxton	0-8	Fine sandy loam	SM	A-4	0-5	0-10	90-95	85-90	75-90	35-50	10-25	NP-5
	8-15	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	15-26	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	26-65	Fine sandy loam, Gravelly fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
PD:												
Paxton	0-8	Fine sandy loam	SM	A-4	0-5	0-10	90-95	85-90	75-90	35-50	10-25	NP-5
	8-15	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	15-26	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
	26-65	Fine sandy loam, Gravelly fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SM	A-2, A-4	0-10	0-20	75-90	65-90	55-85	25-60	10-25	NP-5
Urban land	0-6	Variable	---	---	---	---	---	---	---	---	---	---
Pg:												
Pits	---	---	---	---	---	---	---	---	---	---	---	---
Urban land	---	---	---	---	---	---	---	---	---	---	---	---

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Pk:												
Pits	---	---	---	---	---	---	---	---	---	---	---	---
PmA:												
Pittstown	0-8	Very stony silt loam	CL-ML, ML, SC-SM, SM	A-2, A-4, A-6, A-7	0-5	10-20	65-90	60-85	50-85	30-75	25-45	4-15
	8-28	Channery loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	65-95	60-90	50-90	30-80	20-35	2-10
	28-60	Channery loam, Channery silt loam, Very fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	60-95	55-85	45-85	30-75	20-30	2-10
PmB:												
Pittstown	0-8	Very stony silt loam	CL-ML, ML, SC-SM, SM	A-2, A-4, A-6, A-7	0-5	10-20	65-90	60-85	50-85	30-75	25-45	4-15
	8-28	Channery loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	65-95	60-90	50-90	30-80	20-35	2-10
	28-60	Channery loam, Channery silt loam, Very fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	60-95	55-85	45-85	30-75	20-30	2-10

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
PnB:												
Pittstown	0-8	Very stony silt loam	CL-ML, ML, SC-SM, SM	A-2, A-4, A-6, A-7	0-5	10-20	65-90	60-85	50-85	30-75	25-45	4-15
	8-28	Channery loam, Silt loam, Very fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	65-95	60-90	50-90	30-80	20-35	2-10
	28-60	Channery loam, Channery silt loam, Very fine sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	60-95	55-85	45-85	30-75	20-30	2-10
Pp:												
Pootatuck	0-12	Fine sandy loam	ML, SM	A-2, A-4	0	0	95-100	80-100	55-95	30-75	15-25	NP-4
	12-38	Fine sandy loam, Sandy loam	SM	A-2, A-4	0	0	95-100	80-100	55-85	30-50	15-20	NP-2
	38-65	Stratified loamy fine sand to very gravelly coarse sand	SM, SP, SP-SM	A-1, A-2, A-3	0	0-15	70-100	45-100	25-75	0-25	0-14	NP
PsA:												
Poquonock	0-8	Loamy fine sand	SM	A-2	0	0-2	90-100	85-100	65-85	20-30	0-29	NP
	8-28	Loamy fine sand, Loamy sand, Sand	SM	A-2	0	0-5	90-100	85-100	55-85	20-30	0-22	NP
	28-60	Gravelly fine sandy loam, Gravelly loam, Silt loam	CL-ML, ML, SM	A-2, A-4	0	0-15	85-90	60-85	50-75	25-70	15-35	NP-10

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
PsB:												
Poquonock	0-8	Loamy fine sand	SM	A-2	0	0-2	90-100	85-100	65-85	20-30	0-29	NP
	8-28	Loamy fine sand, Loamy sand, Sand	SM	A-2	0	0-5	90-100	85-100	55-85	20-30	0-22	NP
	28-60	Gravelly fine sandy loam, Gravelly loam, Silt loam	CL-ML, ML, SM	A-2, A-4	0	0-15	85-90	60-85	50-75	25-70	15-35	NP-10
QoA:												
Quonset	0-3	Gravelly sandy loam	SM, SP-SM	A-1, A-2, A-3, A-4	0	0-5	40-75	35-70	20-60	5-40	0-35	NP
	3-16	Channery loamy sand, Channery loamy sand, Gravelly loamy sand	SM, SP-SM	A-1	0	0-5	45-75	40-75	20-50	5-20	0-21	NP
	16-60	Stratified very channery coarse sand to very channery sand	GP, GP-GM, SP, SP-SM	A-1	0	0-5	20-70	10-60	5-45	0-10	0-14	NP
QoC:												
Quonset	0-3	Gravelly sandy loam	SM, SP-SM	A-1, A-2, A-3, A-4	0	0-5	40-75	35-70	20-60	5-40	0-35	NP
	3-16	Channery loamy sand, Channery loamy sand, Gravelly loamy sand	SM, SP-SM	A-1	0	0-5	45-75	40-75	20-50	5-20	0-21	NP
	16-60	Stratified very channery coarse sand to very channery sand	GP, GP-GM, SP, SP-SM	A-1	0	0-5	20-70	10-60	5-45	0-10	0-14	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RaA:												
Rainbow	0-6	Silt loam	ML	A-4	0	0-5	90-100	80-100	70-100	50-90	15-25	NP-5
	6-18	Gravelly loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	85-100	75-100	70-100	30-90	15-25	NP-5
	18-26	Gravelly loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	85-100	75-100	70-100	30-90	15-25	NP-5
	26-65	Gravelly fine sandy loam, Gravelly sandy loam, Loam	ML, SM	A-2, A-4	0-5	0-10	75-100	60-90	45-80	20-60	10-25	NP-5
RaB:												
Rainbow	0-6	Silt loam	ML	A-4	0	0-5	90-100	80-100	70-100	50-90	15-25	NP-5
	6-18	Gravelly loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	85-100	75-100	70-100	30-90	15-25	NP-5
	18-26	Gravelly loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	85-100	75-100	70-100	30-90	15-25	NP-5
	26-65	Gravelly fine sandy loam, Gravelly sandy loam, Loam	ML, SM	A-2, A-4	0-5	0-10	75-100	60-90	45-80	20-60	10-25	NP-5
RbB:												
Rainbow	0-6	Silt loam	ML	A-4	0	0-5	90-100	80-100	70-100	50-90	15-25	NP-5
	6-18	Gravelly loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	85-100	75-100	70-100	30-90	15-25	NP-5
	18-26	Gravelly loam, Silt loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	85-100	75-100	70-100	30-90	15-25	NP-5
	26-65	Gravelly fine sandy loam, Gravelly sandy loam, Loam	ML, SM	A-2, A-4	0-5	0-10	75-100	60-90	45-80	20-60	10-25	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Rc:												
Raypol	0-4	Silt loam	CL-ML, ML	A-4	0	0	90-100	85-100	75-100	65-90	15-30	NP-7
	4-22	Loam, Silt loam, Very fine sandy loam	CL-ML, ML	A-4	0	0	90-100	85-100	75-100	65-90	15-25	NP-5
	22-65	Stratified loamy fine sand to very gravelly coarse sand	SM, SP	A-1, A-2, A-3	0	0-20	45-100	30-100	15-80	2-30	0-14	NP
Re:												
Ridgebury	0-5	Fine sandy loam	SM	A-2, A-4	0-5	0-5	85-95	80-90	65-85	25-45	0-20	NP-5
	5-14	Fine sandy loam, Gravelly loam, Sandy loam	SM	A-1, A-2, A-4	0-5	0-5	70-100	55-90	40-90	20-50	0-20	NP-5
	14-21	Fine sandy loam, Gravelly loam, Sandy loam	SM	A-1, A-2, A-4	0-5	0-5	70-100	55-90	40-90	20-50	0-20	NP-5
	21-60	Gravelly loam, Sandy loam	SM	A-1, A-2, A-4	0-5	0-5	70-100	55-90	40-90	20-50	0-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Rf:												
Leicester	0-7	Fine sandy loam	SC-SM, SM	A-4	0-3	0-10	85-95	80-90	65-90	35-45	5-25	NP-5
	7-10	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	75-100	60-90	45-90	25-65	5-25	NP-5
	10-18	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	75-100	60-90	45-90	25-65	5-25	NP-5
	18-24	Fine sandy loam, Gravelly sandy loam, Loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-15	75-100	60-90	45-90	25-65	5-25	NP-5
	24-43	Fine sandy loam, Gravelly fine sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-10	75-100	60-90	45-85	25-50	5-20	NP-5
	43-65	Fine sandy loam, Gravelly fine sandy loam, Very gravelly sandy loam	SC-SM, SM	A-2, A-4	0-10	0-20	60-100	40-90	35-85	20-50	5-20	NP-5
Ridgebury	0-5	Fine sandy loam	SM	A-2, A-4	0-5	0-5	85-95	80-90	65-85	25-45	0-20	NP-5
	5-14	Fine sandy loam, Gravelly loam, Sandy loam	SM	A-1, A-2, A-4	0-5	0-5	70-100	55-90	40-90	20-50	0-20	NP-5
	14-21	Fine sandy loam, Gravelly loam, Sandy loam	SM	A-1, A-2, A-4	0-5	0-5	70-100	55-90	40-90	20-50	0-20	NP-5
	21-60	Gravelly loam, Sandy loam	SM	A-1, A-2, A-4	0-5	0-5	70-100	55-90	40-90	20-50	0-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Rf:												
Whitman	0-1	Slightly decomposed plant material	OL	A-8	0	0	100	100	100	100	---	---
	1-9	Fine sandy loam	SC-SM, SM	A-2, A-4	1-5	1-10	95-100	85-95	75-90	30-50	15-25	NP-5
	9-16	Fine sandy loam, Gravelly fine sandy loam, Gravelly loam	CL-ML, ML, SC-SM, SM	A-2, A-4	1-10	1-15	80-100	65-95	55-90	25-60	15-25	NP-5
	16-22	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	1-10	1-15	80-100	65-95	50-95	25-55	15-20	NP-5
	22-60	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	1-10	1-15	80-100	65-95	50-95	25-55	15-20	NP-5
Rk:												
Rock outcrop	0-1	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Beaches	---	---	---	---	---	---	---	---	---	---	---	---
Rp:												
Rock outcrop	0-1	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Rp: Canton	0-1	Moderately decomposed plant material	PT	A-8	0	0	100	100	100	100	---	---
	1-3	Gravelly fine sandy loam	SM	A-2	0-5	0-10	80-90	70-75	60-70	25-35	10-25	NP-5
	3-15	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	15-24	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	24-30	Fine sandy loam, Gravelly loam, Very fine sandy loam	ML, SM	A-2, A-4	0-5	0-10	80-90	70-80	60-70	30-50	10-25	NP-5
	30-60	Gravelly loamy coarse sand, Gravelly loamy sand, Very gravelly loamy sand, Loamy fine sand	SM	A-1, A-2	0-15	0-15	60-85	45-75	30-75	10-25	0-15	NP
Ru:												
Rippowam	0-5	Fine sandy loam	ML, SM	A-2, A-4	0	0	95-100	75-100	60-95	30-55	0-15	NP-5
	5-12	Fine sandy loam, Sandy loam	ML, SM	A-2, A-4	0	0	95-100	75-100	50-95	25-55	0-15	NP-5
	12-19	Fine sandy loam, Sandy loam	ML, SM	A-2, A-4	0	0	95-100	75-100	50-95	25-55	0-15	NP-5
	19-24	Fine sandy loam, Gravelly loamy fine sand, Loamy fine sand, Sandy loam	ML, SM	A-2, A-4	0	0	75-100	45-100	40-95	10-60	0-15	NP-5
	24-27	Fine sandy loam, Gravelly loamy fine sand, Loamy fine sand, Sandy loam	ML, SM	A-2, A-4	0	0	75-100	45-100	40-95	10-60	0-15	NP-5
	27-31	Fine sandy loam, Gravelly loamy fine sand, Loamy sand, Sandy loam	SM, SP, SP-SM	A-1, A-2, A-3	0	0-20	75-100	50-100	5-95	0-30	0-15	NP
	31-65	Stratified very gravelly coarse sand to loamy fine sand	SM, SP, SP-SM	A-1, A-2, A-3	0	0-20	75-100	50-100	5-95	0-30	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Sb:												
Scarboro	0-12	Muck	PT	A-8	0	0	100	100	100	100	---	---
	12-17	Fine sandy loam, Loamy fine sand, Loamy sand, Sandy loam	SM	A-2	0	0	90-100	85-100	70-90	20-30	0-20	NP
	17-31	Stratified sand to loamy fine sand	SM, SP-SM	A-2	0	0	85-100	75-100	45-95	5-30	0-15	NP
	31-72	Stratified very gravelly coarse sand to loamy fine sand	SM, SP-SM	A-1, A-2, A-3	0	0-15	70-100	40-100	20-95	5-30	0-15	NP
ScA:												
Scio	0-9	Silt loam	CL-ML	A-4	0	0	100	95-100	90-100	70-90	15-20	NP-4
	9-46	Silt loam, Very fine sandy loam	CL-ML	A-4	0	0	100	95-100	90-100	70-90	15-20	NP-4
	46-60	Stratified very gravelly sand to silt loam	SM, SP	A-2, A-3, A-4	0	0	35-95	30-90	15-85	2-80	10-15	NP-4
SdB:												
Scio	0-9	Silt loam	CL-ML	A-4	0	0	100	95-100	90-100	70-90	15-20	NP-4
	9-46	Silt loam, Very fine sandy loam	CL-ML	A-4	0	0	100	95-100	90-100	70-90	15-20	NP-4
	46-60	Stratified very gravelly sand to silt loam	SM, SP	A-2, A-3, A-4	0	0	35-95	30-90	15-85	2-80	10-15	NP-4

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Se:												
Stissing	0-8	Very stony silt loam	CL-ML, ML, SC-SM, SM	A-4	0-5	0-5	80-100	70-90	60-85	40-80	24-45	4-14
	8-15	Channery loam, Channery silt loam, Silt loam	CL-ML, ML, SC-SM, SM	A-4	0-5	0-15	70-100	60-90	50-85	35-80	22-34	2-10
	15-60	Channery loam, Channery silt loam, Silt loam	CL-ML, ML	A-4	0-5	0-15	65-80	55-75	45-70	35-65	20-32	2-8
Sf:												
Stissing	0-8	Very stony silt loam	CL-ML, ML, SC-SM, SM	A-4	0-5	0-5	80-100	70-90	60-85	40-80	24-45	4-14
	8-15	Channery loam, Channery silt loam, Silt loam	CL-ML, ML, SC-SM, SM	A-4	0-5	0-15	70-100	60-90	50-85	35-80	22-34	2-10
	15-60	Channery loam, Channery silt loam, Silt loam	CL-ML, ML	A-4	0-5	0-15	65-80	55-75	45-70	35-65	20-32	2-8

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Ss:												
Sudbury	0-1	Moderately decomposed plant material	OL	A-8	0	0	100	100	100	100	---	---
	1-5	Sandy loam	ML, SM	A-2, A-4	0	0-10	90-100	80-100	50-95	30-65	0-15	NP
	5-17	Fine sandy loam, Gravelly sandy loam, Sandy loam	SM	A-2	0	0-20	70-100	60-100	35-95	25-35	0-15	NP
	17-25	Fine sandy loam, Gravelly sandy loam, Sandy loam	SM	A-2	0	0-20	70-100	60-100	35-95	25-35	0-15	NP
	25-60	Stratified gravel to sand	GM, GP-GM, SM, SP-SM	A-1, A-2, A-3	0-20	0-40	40-100	20-90	15-75	5-20	0-15	NP
StA:												
Sutton	0-6	Fine sandy loam	SC-SM, SM	A-2, A-4	0	0-5	90-100	80-90	70-90	30-45	15-25	NP-5
	6-12	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0-5	60-100	55-90	40-90	20-55	15-25	NP-5
	12-24	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	24-28	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2	0-5	0-10	65-100	60-90	55-85	30-40	15-20	NP-5
	36-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-10	65-100	60-90	45-85	25-50	15-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
StB:												
Sutton	0-6	Fine sandy loam	SC-SM, SM	A-2, A-4	0	0-5	90-100	80-90	70-90	30-45	15-25	NP-5
	6-12	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0-5	60-100	55-90	40-90	20-55	15-25	NP-5
	12-24	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	24-28	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2	0-5	0-10	65-100	60-90	55-85	30-40	15-20	NP-5
	36-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-10	65-100	60-90	45-85	25-50	15-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SuB:												
Sutton	0-6	Fine sandy loam	SC-SM, SM	A-2, A-4	0	0-5	90-100	80-90	70-90	30-45	15-25	NP-5
	6-12	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0-5	60-100	55-90	40-90	20-55	15-25	NP-5
	12-24	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	24-28	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2	0-5	0-10	65-100	60-90	55-85	30-40	15-20	NP-5
	36-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-10	65-100	60-90	45-85	25-50	15-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
		<i>In</i>			<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SvB:												
Sutton	0-6	Fine sandy loam	SC-SM, SM	A-2, A-4	0	0-5	90-100	80-90	70-90	30-45	15-25	NP-5
	6-12	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0-5	60-100	55-90	40-90	20-55	15-25	NP-5
	12-24	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	24-28	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	CL-ML, ML, SC-SM, SM	A-2, A-4	0-5	0-5	65-100	55-90	40-90	20-55	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2	0-5	0-10	65-100	60-90	55-85	30-40	15-20	NP-5
	36-65	Gravelly fine sandy loam, Gravelly sandy loam, Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-10	65-100	60-90	45-85	25-50	15-20	NP-5
Tb:												
Tisbury	0-8	Silt loam	ML	A-4	0	0	100	90-100	80-100	60-95	0-35	NP-5
	8-18	Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	100	90-100	85-100	45-95	0-35	NP-5
	18-26	Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	100	90-100	85-100	45-95	0-35	NP-5
	26-60	Stratified very gravelly sand to loamy sand	SM, SP	A-1, A-3	0-10	0-25	65-100	35-100	20-80	2-30	0-15	NP
UAB:												
Udipsamments	0-65	Sand	SP	A-1, A-3	0	0-2	85-100	50-100	25-90	0-5	0-14	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
UAB:												
Beaches	---	---	---	---	---	---	---	---	---	---	---	---
UBE:												
Udorthents	0-12	Sandy loam	ML, SM	A-2, A-4	0	0	85-95	70-90	40-85	20-55	15-20	NP
	12-25	Sandy loam	SM	A-2	0	0	75-95	70-90	40-60	20-35	15-25	NP
	25-60	Stratified sand to very gravelly coarse sand	SP, SP-SM	A-1	0	5-25	40-65	30-60	15-40	0-10	0-16	NP
Beaches	---	---	---	---	---	---	---	---	---	---	---	---
UD:												
Udorthents	0-12	Sandy loam	ML, SM	A-2, A-4	0	0	85-95	70-90	40-85	20-55	15-20	NP
	12-25	Sandy loam	SM	A-2	0	0	75-95	70-90	40-60	20-35	15-25	NP
	25-60	Stratified sand to very gravelly coarse sand	SP, SP-SM	A-1	0	5-25	40-65	30-60	15-40	0-10	0-16	NP
Urban land	0-6	Variable	---	---	---	---	---	---	---	---	---	---
Ur:												
Urban land	---	---	---	---	---	---	---	---	---	---	---	---
W:												
Water	---	---	---	---	---	---	---	---	---	---	---	---

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
Wa:												
Walpole	0-1	Moderately decomposed plant material	OL	---	0	0	100	100	100	100	---	---
	1-7	Sandy loam	ML, SM	A-2, A-4	0	0-5	90-100	80-100	55-90	25-70	0-15	NP
	7-21	Fine sandy loam, Gravelly sandy loam, Sandy loam	SM	A-1, A-2, A-4	0	0-10	85-100	65-100	45-90	20-50	0-15	NP
	21-25	Fine sandy loam, Gravelly sandy loam, Sandy loam	SM	A-1, A-2, A-4	0	0-10	85-100	65-100	45-90	20-50	0-15	NP
	25-41	Stratified very gravelly coarse sand to loamy fine sand	SM, SP, SW, SW-SM	A-1, A-2, A-3	0	0-10	70-100	35-100	10-95	1-20	0-15	NP
	41-65	Stratified very gravelly coarse sand to loamy fine sand	SM, SP, SW, SW-SM	A-1, A-2, A-3	0	0-10	70-100	35-100	10-95	1-20	0-15	NP

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WbA:												
Wapping	0-11	Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-100	40-75	15-25	NP-5
	11-16	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	16-20	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	20-28	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	40-70	20-35	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	35-65	15-20	0-20	NP-5
	36-80	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam, Very gravelly loamy sand	SM, SW-SM	A-1, A-2	0-10	0-15	60-85	40-75	30-65	10-20	0-20	NP-5
WbB:												
Wapping	0-11	Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-100	40-75	15-25	NP-5
	11-16	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	16-20	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	20-28	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	40-70	20-35	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	35-65	15-20	0-20	NP-5
	36-80	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam, Very gravelly loamy sand	SM, SW-SM	A-1, A-2	0-10	0-15	60-85	40-75	30-65	10-20	0-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WcB:												
Wapping	0-11	Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-100	40-75	15-25	NP-5
	11-16	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	16-20	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	20-28	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	40-70	20-35	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	35-65	15-20	0-20	NP-5
	36-80	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam, Very gravelly loamy sand	SM, SW-SM	A-1, A-2	0-10	0-15	60-85	40-75	30-65	10-20	0-20	NP-5
WdB:												
Wapping	0-11	Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-100	40-75	15-25	NP-5
	11-16	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	16-20	Loam, Silt loam, Very fine sandy loam	ML, SM	A-4	0	0	95-100	75-100	70-95	40-80	15-25	NP-5
	20-28	Gravelly fine sandy loam, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	40-70	20-35	15-25	NP-5
	28-36	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam	SM	A-1, A-2	0-5	0-5	70-85	55-75	35-65	15-20	0-20	NP-5
	36-80	Gravelly fine sandy loam, Gravelly loamy sand, Gravelly sandy loam, Very gravelly loamy sand	SM, SW-SM	A-1, A-2	0-10	0-15	60-85	40-75	30-65	10-20	0-20	NP-5

Engineering Properties

State of Rhode Island: Bristol, Kent, Newport, Providence, and Washington Counties

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WgA:												
Windsor	0-1	Moderately decomposed plant material	OL	A-8	0	0	100	100	100	100	---	---
	1-3	Loamy sand	SM	A-2	0	0	100	85-100	50-80	15-35	0-15	NP
	3-9	Loamy fine sand, Loamy sand	SM	A-2	0	0	100	85-100	50-95	15-30	0-15	NP
	9-21	Loamy fine sand, Loamy sand	SM	A-2	0	0	100	85-100	50-95	15-30	0-15	NP
	21-25	Fine sand, Loamy sand, Sand	SM, SW-SM	A-2, A-3	0	0	100	85-100	60-70	5-30	0-15	NP
	25-65	Fine sand, Loamy sand, Sand	SM, SW-SM	A-2, A-3	0	0	95-100	75-100	60-70	5-30	0-15	NP
WgB:												
Windsor	0-1	Moderately decomposed plant material	OL	A-8	0	0	100	100	100	100	---	---
	1-3	Loamy sand	SM	A-2	0	0	100	85-100	50-80	15-35	0-15	NP
	3-9	Loamy fine sand, Loamy sand	SM	A-2	0	0	100	85-100	50-95	15-30	0-15	NP
	9-21	Loamy fine sand, Loamy sand	SM	A-2	0	0	100	85-100	50-95	15-30	0-15	NP
	21-25	Fine sand, Loamy sand, Sand	SM, SW-SM	A-2, A-3	0	0	100	85-100	60-70	5-30	0-15	NP
	25-65	Fine sand, Loamy sand, Sand	SM, SW-SM	A-2, A-3	0	0	95-100	75-100	60-70	5-30	0-15	NP

Engineering Properties

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WhA:												
Woodbridge	0-7	Fine sandy loam	SM	A-4	0-5	0-5	90-100	80-90	70-90	35-45	10-25	NP-5
	7-18	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	18-26	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	26-30	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	30-43	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	43-65	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5

Engineering Properties

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Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WhB:												
Woodbridge	0-7	Fine sandy loam	SM	A-4	0-5	0-5	90-100	80-90	70-90	35-45	10-25	NP-5
	7-18	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	18-26	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	26-30	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	30-43	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	43-65	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5

Engineering Properties

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Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WoB:												
Woodbridge	0-7	Fine sandy loam	SM	A-4	0-5	0-5	90-100	80-90	70-90	35-45	10-25	NP-5
	7-18	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	18-26	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	26-30	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	30-43	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	43-65	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5

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			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
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WrB:												
Woodbridge	0-7	Fine sandy loam	SM	A-4	0-5	0-5	90-100	80-90	70-90	35-45	10-25	NP-5
	7-18	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	18-26	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	26-30	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	30-43	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5
	43-65	Fine sandy loam, Gravelly fine sandy loam, Loam, Sandy loam	ML, SM	A-2, A-4	0-5	0-15	80-100	65-90	45-90	20-50	10-25	NP-5