

Soil type	Charlton fs1		Date	4/19/76	Stop No.	2
Classification	Typic dystrochrepts		Area	Carolina Block, R.I.		
Location	1 mile East of R.I. 112 off private road - photo J-58				Elev.	210 Ft
N. veg. (or crop)	Wooded		Climate			
Parent material	Glacial Till (schistose with some granite)					
Physiography	Glaciated uplands					
Relief	Top of hill	Drainage	WD	Salt or alkali	-	
Elevation		Gr. water	Deep (> 5 Ft)	Stoniness	Class 2	
Slope	0-2%	Moisture	Moist			
Aspect		Root distrib.	A <sub>1</sub> & B <sub>21</sub> - many fine and medium B <sub>22</sub> , B <sub>23</sub> - common med; C - few fine			
Erosion	0					
Permeability	Moderate					
Additional notes	Aeolian silt component has influenced the solon and particularly the C <sub>1</sub> horizon.					

 Soil type  
 Charlton fs1

 File  
 No.

Horizon	Depth (inches)	Color		Texture	Structure	Consistence			Reaction	Boundary
		Dry	Moist			Dry	Moist	Wet		
O2	2-0	Partially decomposed litter								
A1	0-2	2% frag.	10YR 3/2	fsl	very ifgr		vfr		5.0	as
B21	2-7	2% frag.	7.5YR 5/6	fsl	1 f m gr		vfr		5.0	cw
B22	7-20	10% frags.	10YR 5/6	fsl	massive → im sbk clods		vfr		5.0	cw
B23	20-31	15% frags.	2.5 Y 5/4	fsl	massive → im sbk clods		vfr		5.0	aw
C1	31-38	5% frag.	variegated 2.5Y 5/4, 10YR 5/6	fsl- v fsl	massive		fr		5.0	aw
C2	38-60	10% frag.	2.5Y 5/4	s1-fsl	massive		fr		5.0	

Soil type <i>CHARITON ?</i>		Date <i>4 64</i>	Stop No.	Soil type
Classification		Area <i>DPT 64-173</i>		
Location <i>25' E. of BROWN + BURNHILL Rd. INTERSECTION, (LUMBERLAND, MARZEL Kowski)</i>		Elev.		
N. veg. (or crop) <i>HAY</i>		Climate		
Parent material				
Physiography				
Relief <i>FLAT</i>	Drainage <i>WELL</i>	Salt or alkali		
Elevation	Gr. water	Stoniness		
Slope <i>A</i>	Moisture			
Aspect	Root distrib.			
Erosion <i>NORMAL</i>				
Permeability <i>GOOD</i>				
Additional notes	<i>Chack Paxton of Probably Bernardston</i>			File No.
SCS-232A-Soil description— 7-15-56				
GPO: 197-395158				



Soil type Charlton Date 6-6-73 Stop No.

Classification Area

Location W. Greenwich - Road Cut on W. side of Hopkins Hill Rd. - 200 ft. S. of

N. veg. (or crop) Oak and W. Pine Climate Carr River - across Rd. from Pole

Parent material glacial till

Physiography Rolling upland

Relief Drainage well Salt or alkali

Elevation Gr. water Stoniness stony

Slope 5% Moisture

Aspect NE Root distrib.

Erosion

Permeability

Additional notes

Described by A.T. Dore & E.C.A. Stuart

Horizon	Depth	Color		Texture	Structure	Consistence			Reaction	Boundary
		Dry	Moist			<del>Dry</del> ROOTS	Moist	<del>Coarse</del> <del>Hot</del> Frag.		
O1	2-1	Undecomposed								
O2	1-0	Partially decomposed								
A1	0-1		10YR 4/3	fsl	lfgr	J	vfr	2%	4.4	as
B21	1-4		7.5YR 4/4	fsl	lfgr	few finer med.	vfr	3%	4.6	cs
B22	4-16		7.5YR 5/6	fsl	lfgr	"	vfr	10%	4.8	cs
B23	16-25		2.5Y 6/4	sl	lfsbk	"	fr	18%	4.8	cw
B3	25-30		2.5Y 6/4 ①	lfs	lfsbk	very few	fr	8%	4.8	aw
C1	30-60		2.5Y 6/2 ②	sl	structureless	none		35% ③	5.0	

① Pockets of material slightly higher & lower in chroma

② Pockets & lenses (1/4" to 3" length & thickness) of v fsl 2.5Y 5/2 -  
- with lfsbk structure

③ Many coarse frags. 6" to 24" diam.

Rotten rocks 2" to 20" diameter in the B23 & C1

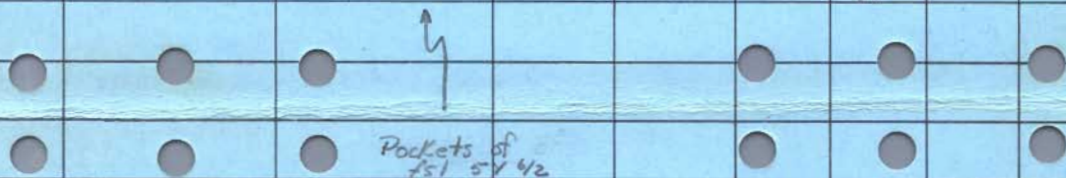
40XB Chaelton  
 (Chanton - Chaelton)

Soil type <i>Chaelton</i>		Date <i>6-12-73</i>	Stop No.
Classification		Area	
Location <i>1000' West of Breakheart Hill Rd. ; 1750' North of Exeter - W. Greenwich town line</i>			
N. veg. (or crop) <i>Beech - Red oak - Black oak</i>		Climate	
Parent material <i>Glacial Till</i>			
Physiography			
Relief	Drainage	Salt or alkali	
Elevation	Gr. water	Stoniness <i>VERY STONY</i>	
Slope <i>6%</i>	Moisture		
Aspect <i>South</i>	Root distrib.		
Erosion			
Permeability			
Additional notes <i>Photo H-42 / Location marked on back of Photo</i> <i>1000' WEST of Breakheart Hill Rd. and</i> <i>1750' North of EXETER - West Greenwich</i> <i>town line in West Greenwich, R.I.</i>			

Soil type  
 Chanton Series  
 File No.

*Described by Dore / STUART / Townsend*

Horizon	Depth	Color		Texture	Structure	Consistence			Reaction	Bound-ary
		Dry COARSE FRAG.	Moist			Dry	Moist	Wet ROOTS		
O1	2-1	undecomposed leaf litter								
O2	1-0	Partially decom. leaf litter								
A1	0-1	3%	10YR 4/2	sl	lfgr		vfr	Common fine	4.4	As
B21	1-7	10%	10YR 5/6	fsl	lfgr		vfr	Common fine	5.0	CW
B22	7-24	25%	10YR 5/6	sl	lfgr		vfr	Common fine + med.	4.6	Cs
B23	24-27	8%	2.5Y 5/4	ls	massive		fr	few fine	5.0	Cs
B2	27-30	10%	10YR 4/4	sl	massive		fr	few fine	4.6	Cs
C	30-40	35%	2.5Y 7/2	ls	0		fr	none	5.0	



Few root channels in 7-24" horizon (B22)

Coarse Frag. are predominantly 1-4" in Dia. with an abundance of silt coatings on the Coarse Frag.

27-30 horizon appears to have an accumulation of Fe<sup>++</sup>



Soil type Charlton Date 11-8-73 Stop No.

Classification Area

Location W. Greenwich R.I. - In face of borrow Pit located about 150ft E. of Route 95

N. veg. (or crop) Hardwood forest Climate at a point approx 3/10 mi north of Rt. 102

Parent material Glacial Till

Physiography

Relief Drainage well drained Salt or alkali

Elevation Gr. water Stoniness very stony

Slope 3% Moisture

Aspect West Root distrib.

Erosion

Permeability

Additional notes Poor example of Charlton because of the sil at 40"

Described by E. Stuart & Ted Glover

SCS-232D Soil Description - 9-63

Soil type

File No.



Soil type Charlton Date 9-23-74 Stop No.

Classification Area

Location W. Greenwich. - Roadside cut on w. side of Hopkins Hill Rd. at a point

N. veg. (or crop) Climate ~400' South of culvert by TARBOX

Parent material Pond. Across Rd. from light pole No. ?

Physiography

Relief Drainage Salt or alkali

Elevation Gr. water Stoniness

Slope Moisture

Aspect Root distrib.

Erosion

Permeability

Additional notes

Described by Sprankle, Stuart - for woodland site index study

Soil type  
File No.

Horizon	Depth	Color		Texture	Structure	Consistence			Reaction	Bound-ary
		Dry Roots	Moist			Dry C.F.*	Moist	Wet		
O1	1-0									
A1	0-1	few fine	10YR 3/1	fsl	lfgr	2%	vfr			as
B21	1-8	common fine	10YR 4/4	fsl	lmgr	10%	fr		5.2	CS
B22	8-14	few fine	10YR 5/6	gsl	lfgr	40%	vfr			CS
B23	14-20	few fine + med.	10YR 5/6	gsl	lfgr	30%	vfr		5.4	CS
B24	20-30	"	10YR 5/4	gsl	lfgr	40%	fr		5.4	CW
C1	30-37	none	2.5Y 4/2	ssl	lmsbk	35%	fi (in place) fr (distributed)		5.6	CW
C2	37-60	none	2.5Y 4/2	gls	lfgr	20%	fr			
		●	●	●		●	●			
		●	●	●		●	●			

\* C.F. estimated with sieve

NOTE:

C1 horizon has strongly pronounced silt caps around frags  
C1 firm in place but NOT brittle, NOT platy

NOTE - OUTSIDE THE RANGE OF CHARLTON - lower  
B too coarse & too many coarse frags. (2-75 ECAS)  
- OUT OF RANGE OF CANTON

Soil type <i>Charlton</i>		Date <i>10-2-74</i>	Stop No.
Classification		Area <i>Coventry</i>	
Location <i>Roadside cut on Read School House Road 1.4 mi North of Jct RT 117</i>			
N. veg. (or crop) <i>mixed oak</i>		Climate	
Parent material <i>glacial till</i>			
Physiography			
Relief	Drainage <i>well</i>	Salt or alkali	
Elevation	Gr. water	Stoniness <i>extremely</i>	
Slope <i>10%</i>	Moisture		
Aspect <i>West</i>	Root distrib.		
Erosion			
Permeability			
Additional notes <i>Stuart &amp; Sprinkle</i>			

*This profile used for R.I. Typical pedon for Charlton -  
Feb. 1975 ECAS*

Soil type

File No.

Horizon	Depth	Color		Texture	Structure	Consistence			Reaction	Bound-ary
		Dry Roots	Moist			Dry %a.c.f.	Moist	Wet		
A1	0-2	few fine	10YR 2/2	fsl	lfgr	5	vfr		5.2	as
B21	2-17	common fine	10YR 4/6	fsl	lmgr	10	fr		5.2	cs
B22	17-27	common fine and medium	10YR 5/4	gsl	lfgr	25	vfr		5.2	cs
C	27-60	few fine	5Y 5/2 (sil) 2.5Y 6/2 (ls)	gsl*	lmgr	35	vfr		5.4	

\*averaged texture gsl — made up of g/s with lenses of sil.

Soil type *CHARLTON (inclusion)* Date *9/30/75* Stop No.

Classification Area *Wolf Rocks Rd.*

Location *50 in woods S. of Wolf Rocks Rd. 4,500' from S. County trail in Exeter.*

N. veg. (or crop) *Upland Oaks Beeches - Hickories* Climate

Parent material

Physiography

Relief Drainage *Well Drained* Salt or alkali

Elevation Gr. water Stoniness

Slope *5%* Moisture

Aspect Root distrib. % Clay \*

Erosion % Coarse fragments \* % Coarser than V. F. S. \*

Permeability

Additional notes *B. Goochey and C. Ditzler*

SOIL DESCRIPTION \* Control section average USDA - SCS

SCS - Soils - 232D, Rev. 12-70

Soil type

File No.





Soil type	Charlton		Date	7 May 76	Stop No.
Classification			Area	Rhode Island	Primrose block
Location	Sheet 0-12, NE quadrant, NE of		R.I. 7, opposite entrance to (cont.)		
N. veg. (or crop)	Forest		Climate		
Parent material	Glacial till				
Physiography	Bedrock controlled ridge				
Relief	380+ Normal	Drainage	Good	Salt or alkali	None
Elevation	380	Gr. water	None	Stoniness	Stony
Slope	5%	Moisture	Moist		
Aspect	Root distrib.		Abund. to 8"; plant. to 15"	% Clay *	
Erosion	None or slight	% Coarse fragments *	15	% Coarser than V.F.S. *	
Permeability	Moderate				
Additional notes	Deep soils such as this profile are dominant within 37LC delineations; shallow zone is commonly narrower than one pedon. This profile is probably deeper to 2.5Y hue than normal. Stone content varies widely. This profile is lower in rock (cont.)				

Soil type  
Charlton  
File No.

Horizon	Depth inches	Color		Texture	Structure	Consistence			Reaction	Bound- ary
		Dry	Moist			Dry	Moist	Wet		
01	2-0									as
A1	0-2	Ranges from	10YR 3/2 to 10YR 3/4	gr fsl	2 vfg		rfr	P <sub>0</sub> S <sub>0</sub>	4.4	cm
B21	2-8		7.5YR 4/4	gr fsl	2 vfg		rfr	P <sub>0</sub> S <sub>0</sub>	5.2	gm
B22	8-15		slightly darker							
B3	15-27		10YR 5/4	gr fsl	1 vfg		fr	P <sub>0</sub> S <sub>0</sub>	5.4	gm
C1	27-41		2.5Y 5/4	gr sl	0		fr	P <sub>0</sub> S <sub>0</sub>	5.4	cm
C2	41-44		2.5Y 7/2	gr sl	0		fr	P <sub>0</sub> S <sub>0</sub>	5.4	

## Location

Bryant College, about 600 feet in from the highway, along old woods trail that runs N and NE to woods road near power line, in 37LC delineation.

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fragments than most. Canton soils (sandy within 40") are very rare. Some water sorting and subrounded coarse fragments are fairly common in both 40 and 37 delineations.