

Dutchess County Soil Conservation District, N. Y.

SUPPLEMENT TO LAND USE CAPABILITY MAP OF The Cary Arboretum

Explanation of symbols within lines: Soil thus $\frac{2}{B-3}$ In this case "2" means
Slope - Erosion

HOOSIC soil, "B" means steepness of slope, and "3" means amount of erosion.

Slopes:

- A—Relatively level.
- B—Gently sloping; usually needs some erosion control.
- BK }
BB } Moderately sloping; needs careful
BR } erosion control.
- C }
BC } Strongly sloping; too steep for
CR } rotated crops.
- D }
CD } Steep; best suited as pasture or woodland.
- E—Very steep; best suited as woodland.

Land Use Symbols:

- L—Cultivated (L₁ orchard, L₂ vineyard).
- P—Pasture (P₁ brush pasture).
- X—Idle (X₂ idle, but can be put into cultivation).
- F—Forest (F₁ brush forest, F₂ plantation).
- H—Urban.

Letters K & V sometimes occur with slope letters,
indicating steeply rolling knobs or bowl shaped
depressions. (Kettles and Kames)

Erosion:

- 0,1—None to slight sheet erosion (0 to 25% topsoil lost).
- 2,3,33—Moderate sheet erosion (25 to 75% of topsoil lost).
- 4—Severe sheet erosion (75% of topsoil to 25% of subsoil lost).
- 5—Very severe sheet erosion (all of topsoil and more than 25% of subsoil lost).
- 6—Slip erosion.
- 7—Occasional gullies. Circled (7) means deep and difficult to cross.
- 8—Frequent gullies. Circled (8) means deep and difficult to cross.
- 9—Land destroyed by gullies.
- ⊖—Undifferentiated erosion.
- ⊕—Deposition.
- Δ—Detrimental disposition.

Soil Number	Soil Descriptions
<u>2</u> <u>B-3</u> A-1 A-3	HOOSIC GRAVELLY LOAM: This is a deep, gravelly, medium textured, acid, well drained outwash soil with moderately rapid to very rapid permeability, high organic content, low inherent fertility and moderate available moisture capacity.
<u>3</u> <u>B-3</u>	HOOSIC GRAVELLY SANDY LOAM: This is a deep, gravelly, medium textured, acid, well drained outwash soil with rapid to very rapid permeability, medium organic content, low inherent fertility and low available moisture capacity.

Soil Number	Soil Descriptions
<u>12</u> B-3	BRACEVILLE SILT LOAM: This is a deep, medium textured, acid, moderately well drained to somewhat poorly drained outwash soil with moderate permeability, high organic content, low inherent fertility and moderate available moisture capacity.
<u>14</u> B-4 C-4 CK-4 E-47	COPAKE GRAVELLY LOAM: This is a deep, gravelly, medium textured, acid to neutral, well drained outwash soil with moderately rapid to very rapid permeability, moderate inherent fertility and moderate available moisture capacity.
<u>19</u> B-3 C-4 D-4 BK-4 BK-8 CK-4 Dk-4	HOOSIC GRAVELLY LOAM: (refer to 2)
<u>41</u> BR-4, C-4 RC-1, CD-1 CR-1, CR-3 BC-3, CR-4 DR-4, C-5 BR-3, DE-1 B-3, CD-4 E-1, D-4	NASSAU SLATY, SILT LOAM: This is a shallow, slaty, medium textured, acid, well drained till soil underlain by shale at less than 20" with moderate permeability in subsoil, high organic content, low inherent fertility and low available moisture capacity.
<u>43</u> E-4, BR-1 CD-1, C-4 E-1, E-2	NASSAU STONY LOAM (LEDGY): This is a shallow, stony, medium textured, acid, well drained till soil underlain by shale at less than 20", with moderate permeability in subsoil, high organic content, low inherent fertility and low available moisture capacity.
<u>44</u> CR-3	
<u>45</u> B-3	DUTCHESS GRAVELLY SILT LOAM: This is a deep, gravelly, medium textured, acid, well drained till soil from slates and shales, with moderate permeability, high organic content, low inherent fertility and high available moisture capacity.
<u>47</u> B-3 D-3 BC-3	
<u>52</u> A-1 B-1	MANSFIELD SILT LOAM: This is a deep, medium textured, very poorly drained, acid, till soil with slow permeability, high organic content, low inherent fertility and high available moisture capacity.

Soil Number	Soil Descriptions
<u>58</u> A-1	LYONS SILT LOAM: This is a deep, medium textured, neutral, very poorly drained till soil with slow permeability, high organic content, moderate inherent fertility and high available moisture capacity.
<u>65</u> D-1 BK-1 BR-3	WASSAIC STONY LOAM: A moderately deep, stony, medium textured, acid to neutral, well drained till soil with underlying limestone bedrock usually less than 3 feet, moderate permeability, high organic content, moderate inherent fertility and moderate available moisture capacity.
<u>81</u> A-1	SACO SILTY, CLAY LOAM: A deep, moderately heavy textured, acid, very poorly drained alluvial soil subject to frequent flooding, with slow permeability, high organic content, low inherent fertility and high available moisture capacity.
<u>82</u> A-1 A-4	ALLUVIAL SOILS - UNDIFFERENTIATED: River lain soils generally pretty well cut up with varying textures and drainages throughout.
<u>88</u> E-1	ROUGH STONY LAND: Gloucester-Hollis-Chatfield material.
<u>91</u> A-1	POULTNEY LOAM: A deep, medium textured, acid, well drained alluvial soil, subject to occasional flooding, with moderate permeability, high organic content, low inherent fertility and high available moisture capacity.
<u>94</u> A-1	MUCK SHALLOW PHASE: A shallow, very poorly drained, highly organic soil which is potentially capable of being drained.
<u>101</u> A-1	STISSING GRAVELLY SILT LOAM: A shallow, medium textured, somewhat poor to poorly drained till soil with a fragipan at 10 to 15 inches, moderately slow to slow permeability, high organic content, low inherent fertility and low available moisture capacity.
<u>102</u> B-1	
<u>108</u> A-1	HOOSIC LOAM: This is a deep, medium textured, acid, well drained, outwash soil with moderate rapid to very rapid permeability, high organic content, low inherent fertility and moderate available moisture capacity.
<u>113</u> A-1 B-3	RED HOOK SILT LOAM: A deep, medium textured, acid, poorly to somewhat poorly drained outwash soil with moderately slow permeability, low inherent fertility and moderate available moisture capacity.

Soil Number	Soil Descriptions
<u>150</u> A-1 B-1	PITTSTOWN GRAVELLY SILT LOAM: This is a moderately deep to shallow, moderately well drained to somewhat poorly drained, acid soil with a clayey fragipan at 15 to 24 inches, moderately slow to very slow permeability, high organic content, low inherent fertility and moderate available moisture capacity.
<u>181</u> A-1	SACO SILT LOAM: A deep, medium textured, acid, very poorly drained alluvial soil, subject to frequent flooding, with moderately slow permeability, high organic content, low inherent fertility and high available moisture capacity.
<u>191</u> A-1	POULTNEY SILT LOAM: (refer to 91)
<u>192</u> A-1	PAWLET SILT LOAM: A deep, medium textured, acid, moderately well to somewhat poorly drained, alluvial soil subject to flooding with moderate to moderately slow permeability, high organic content, low inherent fertility and high available moisture capacity.
<u>193</u> A-1	HOUSATONIC SILT LOAM: A deep, medium textured, acid, poorly drained to somewhat poorly drained alluvial soil, subject to frequent flooding with moderately slow permeability, high organic content, low inherent fertility and high available moisture capacity.
<u>194</u> A-1	MUCK, ACID: A deep, very poorly drained, highly organic soil with very rapid permeability and very high available moisture capacity.
<u>213</u> A-1	ATHERTON SILT LOAM: A deep, medium textured, acid, very poorly drained cutwash soil with slow to moderately slow permeability, high organic content, low inherent fertility and moderate available moisture capacity.
<u>291</u> A-1	POULTNEY LOAM: (refer to 91)
<u>391</u> B-1	POULTNEY LOAM: (refer to 91)