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# Soils Report

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**Contact your local District Conservationist for site specific assistance**

## **Pond Reservoir Area - Dominant Condition**

Pond Reservoir Area is an area that holds water behind a dam or embankment. The soils best suited to this use have a low seepage potential, which is determined by permeability and depth to fractured or permeable bedrock, to a cemented pan, or to other permeable material. The soil is rated to a depth of 60 inches on its properties and qualities as a natural barrier against seepage into deeper layers, without regard to cutoff trenches or other features that may be installed under the pond embankment.

**Soil Survey: Knott and Letcher Counties, Kentucky**

**Survey Status: -**

**Correlation Date: 03/01/1997**

**Distribution Date: 12/08/2004**

### **Map**

<b>Symbol</b>	<b>Soil Name</b>	<b>Rating</b>	<b>Dominant Component(s) and Reason(s)</b>
AIC	Allegheny loam, 2 to 15 percent slopes	Somewhat limited	Component - Allegheny (80%) • Seepage
AtF	Alticrest-Ramsey-Wallen complex, 20 to 55 percent slopes, rocky	Very limited	Component - Alticrest (35%) • Seepage • Depth to bedrock • Slope Component - Ramsey (30%) • Depth to bedrock • Slope Component - Wallen (20%) • Seepage • Depth to bedrock • Slope
BcG	Berks-Caneyville complex, 50 to 120 percent slopes, very rocky	Very limited	Component - Berks (50%) • Slope • Seepage • Depth to bedrock Component - Caneyville (20%) • Slope • Depth to bedrock • Seepage
CbF	Caneyville-Renox-Bledsoe complex, 50 to 80 percent slope, extremely stony	Very limited	Component - Caneyville (30%) • Slope • Depth to bedrock • Seepage Component - Renox (30%) • Slope • Seepage Component - Bledsoe (25%) • Slope • Seepage
CgF	Cloverlick-Guyandotte-Highsplint complex, 35 to	Very limited	Component - Cloverlick (45%) • Slope

	80 percent slopes, very stony		<ul style="list-style-type: none"> <li>• Seepage</li> </ul> Component - Guyandotte (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Highsplint (20%)
CkF	Cloverlick-Kimper-Highsplint complex, 30 to 65 percent slopes, very stony	Somewhat limited	<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Kimper (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Cloverlick (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Highsplint (20%)
CsF	Cloverlick-Shelocta-Kimper complex, 20 to 70 percent slopes, stony	Somewhat limited	<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Shelocta (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Depth to bedrock</li> </ul> Component - Cloverlick (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Kimper (20%)
DAM	Dam, large earthen	Not rated	<ul style="list-style-type: none"> <li>• Seepage</li> </ul> Component - Dam (100%)
DgF	Dekalb-Gilpin-Marrowbone complex, 20 to 80 percent slopes, very rocky	Very limited	<ul style="list-style-type: none"> <li>• Not rated; Slope</li> </ul> Component - Dekalb (35%)
			<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul> Component - Dekalb (40%)
DrF	Dekalb-Gilpin-Rayne complex, 25 to 65 percent slopes, very rocky	Very limited	<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul> Component - Shelocta (30%)
FaF	Fedscreek-Shelocta-Handshoe complex, 30 to 80 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Depth to bedrock</li> </ul> Component - Fedscreek (30%)
			<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Handshoe (25%)
			<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Fiveblock (40%)
FkE	Fiveblock and Kaymine soils, 0 to 30 percent slopes, stony	Very limited	<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Kaymine (40%)

GID	Gilpin-Shelocta complex, 12 to 25 percent slopes	Somewhat limited	<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Gilpin (40%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul> Component - Shelocta (35%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul>
GmF	Gilpin-Summers-Kimper complex, 20 to 55 percent slopes, very stony	Somewhat limited	Component - Gilpin (30%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Depth to bedrock</li> </ul>
Gr	Grigsby sandy loam, occasionally flooded	Very limited	Component - Grigsby (85%) <ul style="list-style-type: none"> <li>• Seepage</li> </ul>
GuB	Grigsby-Urban land complex, 0 to 6 percent slopes, occasionally flooded	Very limited	Component - Grigsby (65%) <ul style="list-style-type: none"> <li>• Seepage</li> </ul>
HaF	Handshoe-Feds creek-Marrowbone complex, 30 to 80 percent slopes, very stony	Very limited	Component - Handshoe (35%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Feds creek (25%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Marrowbone (15%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul>
HeF	Helechawa-Varilla-Jefferson complex, 35 to 75 percent slopes, very rocky	Very limited	Component - Helechawa (27%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul> Component - Varilla (27%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> Component - Jefferson (20%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul>
HsF	Highsplint-Shelocta-Dekalb complex, 35 to 80 percent slopes, very stony	Very limited	Component - Highsplint (35%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Shelocta (25%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Depth to bedrock</li> </ul> Component - Dekalb (15%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul>

HtF	Highsplint-Shelocta-Muse complex, 30 to 80 percent slopes, extremely stony	Very limited	<ul style="list-style-type: none"> <li>• Depth to bedrock</li> <li>Component - Highsplint (30%)</li> <li>• Slope</li> <li>• Seepage</li> <li>Component - Shelocta (25%)</li> <li>• Slope</li> <li>• Seepage</li> <li>• Depth to bedrock</li> </ul>
Hy	Holly loam, frequently flooded	Very limited	Component - Holly (85%)
ImF	Itmann very channery sandy loam, 4 to 80 percent slopes	Very limited	Component - Itmann (90%)
KfF	Kaymine, Fairpoint, and Fiveblock soils, benched, 2 to 70 percent slopes, very stony	Very limited	Component - Kaymine (40%)
KrF	Kimper-Cloverlick-Renox complex, 30 to 80 percent slopes, extremely stony	Very limited	<ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> <li>Component - Kimper (30%)</li> <li>• Slope</li> <li>• Seepage</li> <li>Component - Cloverlick (25%)</li> <li>• Slope</li> <li>• Seepage</li> <li>Component - Renox (20%)</li> <li>• Slope</li> <li>• Seepage</li> </ul>
Pt	Pits, quarries	Not rated	Component - Pits, quarries (100%)
RgB	Rowdy-Grigsby complex, 0 to 4 percent slopes, occasionally flooded	Very limited	<ul style="list-style-type: none"> <li>• Not rated; Slope</li> <li>Component - Rowdy (45%)</li> <li>• Seepage</li> <li>Component - Grigsby (35%)</li> <li>• Seepage</li> </ul>
ShF	Shelocta-Highsplint complex, 30 to 65 percent slopes, very stony	Somewhat limited	Component - Shelocta (55%)
SmF	Shelocta-Muse complex, 15 to 50 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Depth to bedrock</li> <li>Component - Highsplint (25%)</li> <li>• Slope</li> <li>• Seepage</li> <li>Component - Shelocta (45%)</li> <li>• Seepage</li> <li>• Slope</li> <li>• Depth to bedrock</li> </ul>
UdE	Udorthents-Urban land complex, steep	Somewhat limited	Component - Udorthents (60%)
UrC	Urban land-Udorthents complex, 0 to 15 percent slopes	Not limited	<ul style="list-style-type: none"> <li>• Slope</li> <li>Component - Urban land (25%)</li> <li>• Slope</li> </ul>
UuB	Urban land-Udorthents-	Not limited	

VaF	<p>Grigsby complex, 0 to 6 percent slopes, rarely flooded</p> <p>Varilla-Jefferson-Alticrest complex, 35 to 75 percent slopes, very rocky</p>	Very limited	<p>Component - Varilla (40%)</p> <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> <p>Component - Jefferson (25%)</p> <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul> <p>Component - Alticrest (15%)</p> <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Depth to bedrock</li> <li>• Slope</li> </ul> <p>Component - Water (100%)</p> <ul style="list-style-type: none"> <li>• Not rated; Slope</li> </ul>
W	Water	Not rated	