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# Soils Report

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

## **Local Roads and Streets - Dominant Condition**

Local roads and streets are those roads and streets that have all-weather surfacing (commonly of asphalt or concrete) and that are expected to carry automobile traffic year-round. The roads and streets consist of (1) the underlying local soil material, either cut or fill, which is called "the subgrade"; (2) the base material, which may be lime-stabilized soil, cement-stabilized soil, gravel, or crushed rock; and (3) the actual road surface or street pavement, which is either flexible (asphalt), rigid (concrete) or gravel with binder in it. They are graded to shed water, and conventional drainage measures are provided. With the probable exception of the hard surface, roads, and streets are build mainly from the soil at hand.

The limitations are considered not limiting if soil properties and site features are generally favorable for the indicated use and limitations are minor and easily overcome. A somewhat limiting limitation indicates soil properties or site features are not favorable for the indicated use and special planning, design, or maintenance is needed to overcome or minimize the limitations. A very limiting limitation indicates soil properties or site features are so unfavorable or so difficult to overcome that special design, significant increases in construction costs, and possibly increased maintenance are required. Special feasibility studies may be required where the soil limitations are very limiting.

## **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%) • Slope
AtF	Alticrest-Ramsey-Wallen complex, 20 to 55 percent slopes, rocky	Very limited	Component - Alticrest (35%) • Slope Component - Ramsey (30%) • Depth to hard bedrock • Slope Component - Wallen (20%) • Slope • Depth to hard bedrock
BcG	Berks-Caneyville complex, 50 to 120 percent slopes, very rocky	Very limited	Component - Berks (50%) • Slope • Depth to hard bedrock Component - Caneyville (20%) • Slope • Low strength • Depth to hard bedrock • Shrink-swell
CbF	Caneyville-Renox-Bledsoe complex, 50 to 80 percent slope, extremely stony	Very limited	Component - Caneyville (30%) • Slope • Low strength

			<ul style="list-style-type: none"> <li>• Shrink-swell</li> <li>• Depth to hard bedrock</li> </ul>
			Component - Renox (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Bledsoe (25%)
			<ul style="list-style-type: none"> <li>• Slope</li> <li>• Low strength</li> <li>• Shrink-swell</li> </ul>
CgF	Cloverlick-Guyandotte-Highsplint complex, 35 to 80 percent slopes, very stony	Very limited	Component - Cloverlick (45%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Guyandotte (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Highsplint (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
CkF	Cloverlick-Kimper-Highsplint complex, 30 to 65 percent slopes, very stony	Very limited	Component - Kimper (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Cloverlick (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Highsplint (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
CsF	Cloverlick-Shelocta-Kimper complex, 20 to 70 percent slopes, stony	Very limited	Component - Shelocta (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Cloverlick (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Kimper (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
DAM	Dam, large earthen	Not rated	Component - Dam (100%)
			<ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Slope</li> <li>• Not rated; Minerology class</li> </ul>
DgF	Dekalb-Gilpin-Marrowbone complex, 20 to 80 percent slopes, very rocky	Very limited	Component - Dekalb (35%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			<ul style="list-style-type: none"> <li>• Depth to hard bedrock</li> </ul>
			Component - Gilpin (25%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Marrowbone (15%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			<ul style="list-style-type: none"> <li>• Depth to hard bedrock</li> </ul>
DrF	Dekalb-Gilpin-Rayne complex, 25 to 65 percent slopes, very rocky	Very limited	Component - Dekalb (40%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			<ul style="list-style-type: none"> <li>• Depth to hard bedrock</li> </ul>
			Component - Rayne (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Gilpin (20%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
FaF	Fedscreek-Shelocta-Handshoe complex, 30 to 80 percent slopes, very stony	Very limited	Component - Shelocta (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Fedscreek (30%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>
			Component - Handshoe (25%)
			<ul style="list-style-type: none"> <li>• Slope</li> </ul>

FkE	Fiveblock and Kaymine soils, 0 to 30 percent slopes, stony	Very limited	<p>Component - Fiveblock (40%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Content of large stones</li> </ul> <p>Component - Kaymine (40%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul>
GID	Gilpin-Shelocta complex, 12 to 25 percent slopes	Very limited	<p>Component - Gilpin (40%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Shelocta (35%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul>
GmF	Gilpin-Summers-Kimper complex, 20 to 55 percent slopes, very stony	Very limited	<p>Component - Gilpin (30%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Summers (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Content of large stones</li> <li>• Depth to hard bedrock</li> </ul> <p>Component - Kimper (20%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul>
Gr	Grigsby sandy loam, occasionally flooded	Very limited	<p>Component - Grigsby (85%)</p> <ul style="list-style-type: none"> <li>• Flooding</li> </ul>
GuB	Grigsby-Urban land complex, 0 to 6 percent slopes, occasionally flooded	Very limited	<p>Component - Grigsby (65%)</p> <ul style="list-style-type: none"> <li>• Flooding</li> </ul>
HaF	Handshoe-Feds creek-Marrowbone complex, 30 to 80 percent slopes, very stony	Very limited	<p>Component - Handshoe (35%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Feds creek (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Marrowbone (15%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to hard bedrock</li> </ul>
HeF	Helechawa-Varilla-Jefferson complex, 35 to 75 percent slopes, very rocky	Very limited	<p>Component - Helechawa (27%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Varilla (27%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Content of large stones</li> </ul> <p>Component - Jefferson (20%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul>
HsF	Highsplint-Shelocta-Dekalb complex, 35 to 80 percent slopes, very stony	Very limited	<p>Component - Highsplint (35%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Shelocta (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Dekalb (15%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to hard bedrock</li> </ul>
HtF	Highsplint-Shelocta-Muse complex, 30 to 80 percent slopes, extremely stony	Very limited	<p>Component - Highsplint (30%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Shelocta (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Muse (15%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Low strength</li> </ul>

Hy	Holly loam, frequently flooded	Very limited	<ul style="list-style-type: none"> <li>• Shrink-swell</li> </ul> Component - Holly (85%)
ImF	Itmann very channery sandy loam, 4 to 80 percent slopes	Very limited	<ul style="list-style-type: none"> <li>• Depth to saturated zone</li> <li>• Flooding</li> </ul> Component - Itmann (90%)
KfF	Kaymine, Fairpoint, and Fiveblock soils, benched, 2 to 70 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Kaymine (40%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Fairpoint (20%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Shrink-swell</li> </ul> Component - Fiveblock (15%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Content of large stones</li> </ul>
KrF	Kimper-Cloverlick-Renox complex, 30 to 80 percent slopes, extremely stony	Very limited	Component - Kimper (30%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Cloverlick (25%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Renox (20%) <ul style="list-style-type: none"> <li>• Slope</li> </ul>
Pt	Pits, quarries	Not rated	Component - Pits, quarries (100%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Slope</li> <li>• Not rated; Minerology class</li> </ul>
RgB	Rowdy-Grigsby complex, 0 to 4 percent slopes, occasionally flooded	Very limited	Component - Rowdy (45%) <ul style="list-style-type: none"> <li>• Flooding</li> </ul> Component - Grigsby (35%) <ul style="list-style-type: none"> <li>• Flooding</li> </ul>
ShF	Shelocta-Highsplint complex, 30 to 65 percent slopes, very stony	Very limited	Component - Shelocta (55%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Highsplint (25%) <ul style="list-style-type: none"> <li>• Slope</li> </ul>
SmF	Shelocta-Muse complex, 15 to 50 percent slopes, very stony	Very limited	Component - Shelocta (45%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Muse (35%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Low strength</li> <li>• Shrink-swell</li> </ul>
UdE	Udorthents-Urban land complex, steep	Not rated	Component - Udorthents (60%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> <li>• Slope</li> </ul> Component - Urban land (25%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> <li>• Slope</li> </ul>
UrC	Urban land-Udorthents complex, 0 to 15 percent slopes	Not rated	Component - Urban land (60%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul> Component - Udorthents (25%)

UuB	Urban land-Udorhtents-Grigsby complex, 0 to 6 percent slopes, rarely flooded	Not rated	<ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul> Component - Urban land (40%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul> Component - Udorthents (30%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul>
VaF	Varilla-Jefferson-Alticrest complex, 35 to 75 percent slopes, very rocky	Very limited	<ul style="list-style-type: none"> <li>• Not rated; Minerology class</li> </ul> Component - Varilla (40%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Jefferson (25%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Alticrest (15%) <ul style="list-style-type: none"> <li>• Slope</li> </ul>
W	Water	Not rated	<ul style="list-style-type: none"> <li>• Depth to hard bedrock</li> </ul> Component - Water (100%) <ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Slope</li> <li>• Not rated; Minerology class</li> </ul>