
Soils Report

Contact your local District Conservationist for site specific assistance

Topsoil - Dominant Condition

The term "topsoil" has several meanings. As used here, the term describes soil material used to cover an area so as to improve soil conditions for the establishment and maintenance of adapted vegetation.

Generally, the upper part of the soil, which is richest in organic matter, is most desirable for use as topsoil; however, material excavated from deeper layers is also used. In this rating, the upper 40 inches of soil material is evaluated for use as topsoil. In the borrow area, the material below 40 inches is evaluated for its suitability for plant growth after the upper 40 inches is removed.

The suitability ratings are considered good or very suited if soil properties and site features are generally favorable for the indicated use and limitations are minor and easily overcome. A fair or suited indicates soil properties or site features are moderately favorable for the indicated use and special planning, design, or maintenance is needed to overcome or minimize the limitations. A poor or poorly suited 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. An unsuited indicates the expected performance of the soil is unacceptable for the use, or extreme measures are needed to overcome the undesirable properties or qualities.

Soil Survey: Knott and Letcher Counties, Kentucky

Survey Status: -

Correlation Date: 03/01/1997

Distribution Date: 12/08/2004

Map

| Symbol | Soil Name | Rating | Dominant Component(s) and Reason(s) |
|---------------|---|---------------|---|
| AIC | Allegheny loam, 2 to 15 percent slopes | Fair | Component - Allegheny (80%) <ul style="list-style-type: none"> • Too acid • Slope |
| AtF | Alticrest-Ramsey-Wallen complex, 20 to 55 percent slopes, rocky | Poor | Component - Alticrest (35%) <ul style="list-style-type: none"> • Slope • Depth to bedrock • Too acid • Rock fragments Component - Ramsey (30%) <ul style="list-style-type: none"> • Slope • Depth to bedrock • Rock fragments • Too acid Component - Wallen (20%) <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| BcG | Berks-Caneyville complex, 50 to 120 percent slopes, very rocky | Poor | Component - Berks (50%) <ul style="list-style-type: none"> • Slope • Rock fragments |

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| | | | <ul style="list-style-type: none"> • Depth to bedrock • Too acid |
| | | | Component - Caneyville (20%) |
| | | | <ul style="list-style-type: none"> • Slope • Too clayey |
| | | | <ul style="list-style-type: none"> • Depth to bedrock |
| CbF | Caneyville-Renox-Bledsoe complex, 50 to 80 percent slope, extremely stony | Poor | Component - Caneyville (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Too clayey |
| | | | <ul style="list-style-type: none"> • Depth to bedrock |
| | | | Component - Renox (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | Component - Bledsoe (25%) |
| | | | <ul style="list-style-type: none"> • Slope • Too clayey |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | <ul style="list-style-type: none"> • Rock fragments |
| CgF | Cloverlick-Guyandotte-Highsplint complex, 35 to 80 percent slopes, very stony | Poor | Component - Cloverlick (45%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | <ul style="list-style-type: none"> • Too acid |
| | | | Component - Guyandotte (20%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | <ul style="list-style-type: none"> • Too acid |
| | | | Component - Highsplint (20%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | <ul style="list-style-type: none"> • Too acid |
| CkF | Cloverlick-Kimper-Highsplint complex, 30 to 65 percent slopes, very stony | Poor | Component - Kimper (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Too acid |
| | | | Component - Cloverlick (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | <ul style="list-style-type: none"> • Too acid |
| | | | Component - Highsplint (20%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments |
| | | | <ul style="list-style-type: none"> • Too acid |
| CsF | Cloverlick-Shelocta-Kimper complex, 20 to 70 | Poor | Component - Shelocta (30%) |
| | | | <ul style="list-style-type: none"> • Slope |

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| | percent slopes, stony | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments • Rock fragments • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid |
| DAM | Dam, large earthen | Not rated | <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid |
| DgF | Dekalb-Gilpin-Marrowbone complex, 20 to 80 percent slopes, very rocky | Poor | <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| DrF | Dekalb-Gilpin-Rayne complex, 25 to 65 percent slopes, very rocky | Poor | <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| FaF | Feds creek-Shelocta-Handshoe complex, 30 to 80 percent slopes, very | Poor | <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |

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| | stony | | <ul style="list-style-type: none"> • Rock fragments • Too acid |
| | | | Component - Feds creek (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid |
| | | | Component - Handshoe (25%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| FkE | Fiveblock and Kaymine soils, 0 to 30 percent slopes, stony | Poor | Component - Fiveblock (40%) |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments • Rock fragments • Slope |
| | | | Component - Kaymine (40%) |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments • Rock fragments • Slope |
| GID | Gilpin-Shelocta complex, 12 to 25 percent slopes | Poor | Component - Gilpin (40%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| | | | Component - Shelocta (35%) |
| | | | <ul style="list-style-type: none"> • Slope • Hard to reclaim, rock fragments • Rock fragments • Too acid |
| GmF | Gilpin-Summers-Kimper complex, 20 to 55 percent slopes, very stony | Poor | Component - Gilpin (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| | | | Component - Summers (25%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| | | | Component - Kimper (20%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| Gr | Grigsby sandy loam, occasionally flooded | Good | |
| GuB | Grigsby-Urban land complex, 0 to 6 percent slopes, occasionally flooded | Good | |

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| HaF | Handshoe-Feds creek-Marrowbone complex, 30 to 80 percent slopes, very stony | Poor | <p>Component - Handshoe (35%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid <p>Component - Feds creek (25%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid <p>Component - Marrowbone (15%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Depth to bedrock |
| HeF | Helechawa-Varilla-Jefferson complex, 35 to 75 percent slopes, very rocky | Poor | <p>Component - Helechawa (27%)</p> <ul style="list-style-type: none"> • Slope • Too acid • Too sandy <p>Component - Varilla (27%)</p> <ul style="list-style-type: none"> • Slope • Hard to reclaim, rock fragments • Rock fragments • Too acid <p>Component - Jefferson (20%)</p> <ul style="list-style-type: none"> • Slope • Hard to reclaim, rock fragments • Rock fragments • Too acid |
| HsF | Highsplint-Shelocta-Dekalb complex, 35 to 80 percent slopes, very stony | Poor | <p>Component - Highsplint (35%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid <p>Component - Shelocta (25%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Hard to reclaim, rock fragments <p>Component - Dekalb (15%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Depth to bedrock • Too acid |
| HtF | Highsplint-Shelocta-Muse complex, 30 to 80 percent slopes, extremely stony | Poor | <p>Component - Highsplint (30%)</p> <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid <p>Component - Shelocta (25%)</p> <ul style="list-style-type: none"> • Slope |

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| | | | <ul style="list-style-type: none"> • Rock fragments • Too acid • Hard to reclaim, rock fragments |
| | | | Component - Muse (15%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too clayey • Hard to reclaim, rock fragments • Too acid |
| Hy | Holly loam, frequently flooded | Poor | Component - Holly (85%) |
| | | | <ul style="list-style-type: none"> • Depth to saturated zone • Rock fragments |
| ImF | Itmann very channery sandy loam, 4 to 80 percent slopes | Poor | Component - Itmann (90%) |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments • Rock fragments • Slope • Too acid |
| KfF | Kaymine, Fairpoint, and Fiveblock soils, benched, 2 to 70 percent slopes, very stony | Poor | Component - Kaymine (40%) |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments • Rock fragments • Slope |
| | | | Component - Fairpoint (20%) |
| | | | <ul style="list-style-type: none"> • Rock fragments • Hard to reclaim, rock fragments • Slope |
| | | | Component - Fiveblock (15%) |
| | | | <ul style="list-style-type: none"> • Hard to reclaim, rock fragments • Rock fragments • Slope |
| KrF | Kimper-Cloverlick-Renox complex, 30 to 80 percent slopes, extremely stony | Poor | Component - Kimper (30%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid |
| | | | Component - Cloverlick (25%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| | | | Component - Renox (20%) |
| | | | <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments |
| Pt | Pits, quarries | Not rated | Component - Pits, quarries (100%) |
| | | | <ul style="list-style-type: none"> • Not rated; Slope • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated |
| RgB | Rowdy-Grigsby complex, 0 to 4 percent slopes, | Fair | Component - Rowdy (45%) |
| | | | <ul style="list-style-type: none"> • Rock fragments |

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| ShF | occasionally flooded Shelocta-Highsplint complex, 30 to 65 percent slopes, very stony | Poor | <ul style="list-style-type: none"> • Too acid Component - Shelocta (55%) <ul style="list-style-type: none"> • Slope • Hard to reclaim, rock fragments • Rock fragments • Too acid Component - Highsplint (25%) <ul style="list-style-type: none"> • Slope • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| SmF | Shelocta-Muse complex, 15 to 50 percent slopes, very stony | Poor | Component - Shelocta (45%) <ul style="list-style-type: none"> • Slope • Rock fragments • Too acid • Hard to reclaim, rock fragments Component - Muse (35%) <ul style="list-style-type: none"> • Slope • Too clayey • Rock fragments • Hard to reclaim, rock fragments • Too acid |
| UdE | Udorthents-Urban land complex, steep | Not rated | Component - Udorthents (60%) <ul style="list-style-type: none"> • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated • Not rated; Organic matter Component - Urban land (25%) <ul style="list-style-type: none"> • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated • Not rated; Organic matter |
| UrC | Urban land-Udorthents complex, 0 to 15 percent slopes | Not rated | Component - Urban land (60%) <ul style="list-style-type: none"> • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated • Not rated; Organic matter Component - Udorthents (25%) <ul style="list-style-type: none"> • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated • Not rated; Organic matter |
| UuB | Urban land-Udorthents- Grigsby complex, 0 to 6 percent slopes, rarely flooded | Not rated | Component - Urban land (40%) <ul style="list-style-type: none"> • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay |

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| VaF | Varilla-Jefferson-Alticrest complex, 35 to 75 percent slopes, very rocky | Poor | <ul style="list-style-type: none"> • Not rated • Not rated; Organic matter <p>Component - Udorthents (30%)</p> <ul style="list-style-type: none"> • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated • Not rated; Organic matter <p>Component - Varilla (40%)</p> <ul style="list-style-type: none"> • Slope • Hard to reclaim, rock fragments • Rock fragments • Too acid <p>Component - Jefferson (25%)</p> <ul style="list-style-type: none"> • Slope • Hard to reclaim, rock fragments • Rock fragments • Too acid <p>Component - Alticrest (15%)</p> <ul style="list-style-type: none"> • Slope • Depth to bedrock • Too acid • Rock fragments |
| W | Water | Not rated | <p>Component - Water (100%)</p> <ul style="list-style-type: none"> • Not rated; Slope • Not rated; Clay percent or Organic matter • Not rated; pH • Not rated; % sand or clay • Not rated |