
Soils Report

Contact your local District Conservationist for site specific assistance

Dwellings With Basements - Dominant Condition

Dwellings with basements are structures built on shallow foundations on undisturbed soil. The ratings are based on soil properties, site features, and observed performance of the soils. A high water table, flooding, shrinking and swelling, and organic layers can cause the movement of footings. A high water table, depth to bedrock or to a cemented pan, large stones, slope, and flooding affect the ease of excavation and construction. Landscaping and grading that require cuts and fills of more than 5 or 6 feet are not considered.

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

Symbol	Soil Name	Rating	Dominant Component(s) and Reason(s)
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 • Depth to hard bedrock • Depth to soft bedrock Component - Ramsey (30%) • Slope • Depth to hard bedrock 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 • Depth to hard bedrock
CbF	Caneyville-Renox-Bledsoe complex, 50 to 80 percent slope, extremely stony	Very limited	• Shrink-swell Component - Caneyville (30%) • Slope • Depth to hard bedrock • Shrink-swell Component - Renox (30%)

CgF	Cloverlick-Guyandotte-Highsplint complex, 35 to 80 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> • Slope Component - Bledsoe (25%) • Slope • Shrink-swell Component - Cloverlick (45%) • Slope Component - Guyandotte (20%) • Slope Component - Highsplint (20%) • Slope Component - Kimper (30%) • Slope Component - Cloverlick (30%) • Slope Component - Highsplint (20%) • Slope Component - Shelocta (30%) • Slope Component - Cloverlick (30%) • Slope Component - Kimper (20%) • Slope Component - Dam (100%) • Not rated; Slope • Not rated; Fragments > 75mm Component - Dekalb (35%) • Slope • Depth to hard bedrock Component - Gilpin (25%) • Slope • Depth to soft bedrock Component - Marrowbone (15%) • Slope • Depth to hard bedrock Component - Dekalb (40%) • Slope • Depth to hard bedrock Component - Rayne (20%) • Slope Component - Gilpin (20%) • Slope • Depth to soft bedrock Component - Shelocta (30%) • Slope Component - Fedscreek (30%) • Slope Component - Handshoe (25%) • Slope Component - Fiveblock (40%) • Slope • Content of large stones
CkF	Cloverlick-Kimper-Highsplint complex, 30 to 65 percent slopes, very stony	Very limited	
CsF	Cloverlick-Shelocta-Kimper complex, 20 to 70 percent slopes, stony	Very limited	
DAM	Dam, large earthen	Not rated	
DgF	Dekalb-Gilpin-Marrowbone complex, 20 to 80 percent slopes, very rocky	Very limited	
DrF	Dekalb-Gilpin-Rayne complex, 25 to 65 percent slopes, very rocky	Very limited	
FaF	Fedscreek-Shelocta-Handshoe complex, 30 to 80 percent slopes, very stony	Very limited	
FkE	Fiveblock and Kaymine soils, 0 to 30 percent slopes, stony	Very limited	

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

Hy	Holly loam, frequently flooded	Very limited	<ul style="list-style-type: none"> • Shrink-swell Component - Holly (85%)
ImF	Itmann very channery sandy loam, 4 to 80 percent slopes	Very limited	<ul style="list-style-type: none"> • Flooding • Depth to saturated zone Component - Itmann (90%) <ul style="list-style-type: none"> • Slope
KfF	Kaymine, Fairpoint, and Fiveblock soils, benched, 2 to 70 percent slopes, very stony	Very limited	Component - Kaymine (40%) <ul style="list-style-type: none"> • Slope Component - Fairpoint (20%) <ul style="list-style-type: none"> • Slope <ul style="list-style-type: none"> • Shrink-swell Component - Fiveblock (15%) <ul style="list-style-type: none"> • Slope
KrF	Kimper-Cloverlick-Renox complex, 30 to 80 percent slopes, extremely stony	Very limited	<ul style="list-style-type: none"> • Content of large stones Component - Kimper (30%) <ul style="list-style-type: none"> • Slope Component - Cloverlick (25%) <ul style="list-style-type: none"> • Slope Component - Renox (20%) <ul style="list-style-type: none"> • Slope
Pt	Pits, quarries	Not rated	Component - Pits, quarries (100%) <ul style="list-style-type: none"> • Not rated; Slope
RgB	Rowdy-Grigsby complex, 0 to 4 percent slopes, occasionally flooded	Very limited	<ul style="list-style-type: none"> • Not rated; Fragments > 75mm Component - Rowdy (45%) <ul style="list-style-type: none"> • Flooding Component - Grigsby (35%) <ul style="list-style-type: none"> • Flooding • Depth to saturated zone
ShF	Shelocta-Highsplint complex, 30 to 65 percent slopes, very stony	Very limited	Component - Shelocta (55%) <ul style="list-style-type: none"> • Slope Component - Highsplint (25%) <ul style="list-style-type: none"> • Slope
SmF	Shelocta-Muse complex, 15 to 50 percent slopes, very stony	Very limited	Component - Shelocta (45%) <ul style="list-style-type: none"> • Slope Component - Muse (35%) <ul style="list-style-type: none"> • Slope
UdE	Udorthents-Urban land complex, steep	Not rated	<ul style="list-style-type: none"> • Shrink-swell Component - Udorthents (60%) <ul style="list-style-type: none"> • Not rated; Fragments > 75mm <ul style="list-style-type: none"> • Slope Component - Urban land (25%) <ul style="list-style-type: none"> • Not rated; Fragments > 75mm <ul style="list-style-type: none"> • Slope
UrC	Urban land-Udorthents complex, 0 to 15 percent slopes	Not rated	Component - Urban land (60%) <ul style="list-style-type: none"> • Not rated; Fragments > 75mm Component - Udorthents (25%) <ul style="list-style-type: none"> • Not rated; Fragments > 75mm
UuB	Urban land-Udorthents-Grigsby complex, 0 to 6 percent slopes, rarely	Not rated	Component - Urban land (40%) <ul style="list-style-type: none"> • Not rated; Fragments > 75mm Component - Udorthents (30%)

VaF	flooded Varilla-Jefferson-Alticrest complex, 35 to 75 percent slopes, very rocky	Very limited	<ul style="list-style-type: none"> • Not rated; Fragments > 75mm Component - Varilla (40%) • Slope Component - Jefferson (25%) • Slope Component - Alticrest (15%) • Slope • Depth to hard bedrock • Depth to soft bedrock
W	Water	Not rated	<ul style="list-style-type: none"> Component - Water (100%) • Not rated; Slope • Not rated; Fragments > 75mm