

Appendix A  
Maryland COMAR - Highly Erodible Soils (HES)  
Howard, Montgomery, Prince George's Counties

**MARYLAND COMAR - HIGHLY ERODIBLE SOILS - HOWARD COUNTY, MD**

JEB 10/12

**NOTES:** Table is based on data from NRCS SSURGO data (9/21/2006) exported from the Soil Data Mart. This table lists soils meeting the Maryland COMAR and local SCD definition of Highly Erodible Soils (HES).

Map Unit Sym	Map Unit Name	HES Criteria
BrD	Brinklow channery loam, 15 to 25 percent slopes	slope >= 15%
BtF	Brinklow-Blocktown channery loams, 25 to 65 percent slopes	slope >= 15%
CeC	Chillum loam, 5 to 10 percent slopes	k >= .35 and slopes >5%
ChC	Chillum-Russett loams, 5 to 10 percent slopes	k >= .35 and slopes >5%
GaD	Gaila loam, 15 to 25 percent slopes	slope >= 15%
GdD	Gladstone-Legore complex, 15 to 25 percent slopes, stony	slope >= 15%
GmB	Glenville silt loam, 3 to 8 percent slopes	k >= .35 and slopes >5%
GmC	Glenville silt loam, 8 to 15 percent slopes	k >= .35 and slopes >5%
GnB	Glenville-Baile silt loams, 0 to 8 percent slopes	k >= .35 and slopes >5%
GoB	Glenville-Codorus silt loams, 0 to 8 percent slopes	k >= .35 and slopes >5%
GuB	Glenville-Urban land-Udorthents complex, 0 to 8 percent slopes	k >= .35 and slopes >5%
JaB	Jackland silt loam, 3 to 8 percent slopes	k >= .35 and slopes >5%
LrD	Legore-Relay gravelly loams, 15 to 25 percent slopes, very stony	slope >= 15%
LrF	Legore-Relay gravelly loams, 25 to 65 percent slopes, very stony	slope >= 15%
MaD	Manor loam, 15 to 25 percent slopes	slope >= 15%
McD	Manor loam, 15 to 25 percent slopes, very rocky	slope >= 15%
MgD	Manor-Bannertown sandy loams, 15 to 25 percent slopes, rocky	slope >= 15%
MgF	Manor-Bannertown sandy loams, 25 to 65 percent slopes, rocky	slope >= 15%
MkF	Manor-Brinklow complex, 25 to 65 percent slopes, very rocky	slope >= 15%
RtC	Russett-Alloway-Hambrook complex, 5 to 10 percent slopes	k >= .35 and slopes >5%
RtD	Russett-Alloway-Hambrook complex, 10 to 15 percent slopes	k >= .35 and slopes >5%
RuC	Russett and Beltsville soils, 5 to 10 percent slopes	k >= .35 and slopes >5%
SrC	Sassafras and Croom soils, 5 to 10 percent slopes	k >= .35 and slopes >5%
SrD	Sassafras and Croom soils, 10 to 15 percent slopes	k >= .35 and slopes >5%
SrE	Sassafras and Croom soils, 15 to 25 percent slopes	slope >= 15%
UaF	Udorthents, Highway, 0 to 65 percent slopes	slope >= 15%
UbF	Udorthents, Refuse, 0 to 65 percent slopes	slope >= 15%
UcD	Urban land-Chillum-Beltsville complex, 5 to 15 percent slopes	k >= .35 and slopes >5%
UoE	Udorthents, 0 to 45 percent slopes, Gravel Pits	slope >= 15%
UsD	Urban land-Sassafras-Beltsville complex, 5 to 15 percent slopes	k >= .35 and slopes >5%
UuD	Urban land-Udorthents complex, 8 to 25 percent slopes	slope >= 15%
UwC	Urban land-Woodstown-Sassafras complex, 5 to 10 percent slopes	k >= .35 and slopes >5%
WgD	Wheaton-Glenelg complex, 8 to 25 percent slopes	slope >= 15%
WhB	Wiltshire silt loam, 3 to 8 percent slopes	k >= .35 and slopes >5%

**MARYLAND COMAR - HIGHLY ERODIBLE SOILS (HES)  
MONTGOMERY COUNTY, MARYLAND**

**SLOPES GREATER THAN 5 PERCENT WITH A Kw-FACTOR GREATER THAN 0.35**

**NOTES:** Table is based on data from NRCS SSURGO data (2/02/2007) exported from the Soil Data Mart. This table lists soils meeting the Maryland COMAR and local SCD definition of Highly Erodible Soils (HES) based on the Kw-Factor. RV infers representative value (mid range). Percent Composition is only given for major components, not minor components. Kw-Factor is from surface layer and includes adjustments for rock fragments. Not Rated = n/r. Highly Erodible Soils (HES) criteria elements are: K Factor=Kw-Factor > 0.35 with slopes > 5% or Slope=slopes > 15%. Slopes with RV's of 4% were included to capture those soils that have slope ranges up to 8%. The Glenelg soils have been added to this table because of incorrect Kw values in the database. The Croom soils have been removed from this list because of incorrect Kw values in the database.

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV	Kw-Factor
1B:	Gaila silt loam, 3 to 8 percent slopes	9,469			
	Gaila		95	6	0.37
1C:	Gaila silt loam, 8 to 15 percent slopes	17,070			
	Gaila		95	12	0.37
2B:	Glenelg silt loam, 3 to 8 percent slopes	52,024			
	Glenelg		95	6	0.43
2C:	Glenelg silt loam, 8 to 15 percent slopes	12,732			
	Glenelg		95	12	0.43
2UB:	Glenelg-Urban land complex, 0 to 8 percent slopes	10,232			
	Glenelg		50	4	0.43
2UC:	Glenelg-Urban land complex, 8 to 15 percent slopes	7,445			
	Glenelg		50	12	0.43
7UB:	Gaila-Urban land complex, 0 to 8 percent slopes	608			
	Gaila		50	4	0.37
7UC:	Gaila-Urban land complex, 8 to 15 percent slopes	639			
	Gaila		50	12	0.37
17B:	Occoquan loam, 3 to 8 percent slopes	11,998			
	Occoquan		80	6	0.37
17C:	Occoquan loam, 8 to 15 percent slopes	5,647			
	Occoquan		80	12	0.37
19B:	Bucks silt loam, 3 to 8 percent slopes	1,866			
	Bucks		85	6	0.37
22B:	Readington silt loam, 3 to 8 percent slopes	2,862			
	Readington		80	6	0.43
35B:	Chrome and Conowingo soils, 3 to 8 percent slopes	2,085			
	Conowingo		30	6	0.43
37B:	Travilah silt loam, 3 to 8 percent slopes	973			
	Travilah		95	6	0.43
41B:	Elsinboro silt loam, 3 to 8 percent slopes	430			
	Elsinboro		85	6	0.49

Maryland COMAR - (HES) Montgomery County, MD (cont)

Slopes > 5% with Kw-Factor > 0.35

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV	Kw-Factor
57B:	Chillum silt loam, 3 to 8 percent slopes	1,295			
	Chillum		100	6	0.43
57C:	Chillum silt loam, 8 to 15 percent slopes	624			
	Chillum		100	12	0.43
57D:	Chillum silt loam, 15 to 25 percent slopes	144			
	Chillum		100	20	0.43
57UB:	Chillum-Urban land complex, 0 to 8 percent slopes	428			
	Chillum		50	4	0.43
59B:	Beltsville silt loam, 3 to 8 percent slopes	595			
	Beltsville		100	6	0.43
64B:	Croom and Bucks soils, 3 to 8 percent slopes	1,261			
	Bucks		30	6	0.37
64C:	Croom and Bucks soils, 8 to 15 percent slopes	469			
	Bucks		30	12	0.37
65B:	Wheaton silt loam, 0 to 8 percent slopes	3,457			
	Wheaton		100	4	0.49
66UB:	Wheaton-Urban land complex, 0 to 8 percent slopes	8,054			
	Wheaton		50	4	0.49
66UC:	Wheaton-Urban land complex, 8 to 15 percent slopes	2,302			
	Wheaton		50	12	0.49
67UB:	Urban land-Wheaton complex, 0 to 8 percent slopes	1,499			
	Wheaton		25	4	0.49

**MARYLAND COMAR - HIGHLY ERODIBLE SOILS (HES)**  
**MONTGOMERY COUNTY, MARYLAND**  
**SLOPES GREATER THAN 15 PERCENT**

**NOTES:** Table is based on data from NRCS SSURGO data (2/02/2007) exported from the Soil Data Mart. This table lists soils meeting the Maryland COMAR and local SCD definition of Highly Erodible Soils (HES) based on the slope percent. RV infers representative value (mid range). Percent Composition is only given for major components, not minor components. Not Rated = n/r. Highly Erodible Soils (HES) criteria elements are: K Factor=Kw-Factor > 0.35 with slopes > 5% or Slope=slopes > 15%.

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV
16D:	Brinklow-Blocktown channery silt loams, 15 to 25 percent slopes	17,026		
	Brinklow		50	20
	Blocktown		30	20
18E:	Penn silt loam, 15 to 45 percent slopes, very stony	93		
	Penn		95	30
21D:	Penn silt loam, 15 to 25 percent slopes	1,691		
	Penn		95	20
21E:	Penn silt loam, 25 to 45 percent slopes	698		
	Penn		95	35
21F:	Nestoria-Rock outcrop complex, 25 to 50 percent slopes	243		
	Nestoria		65	38
24D:	Montalto silt loam 15 to 25 percent slopes, very stony	149		
	Montalto		100	20
57D:	Chillum silt loam, 15 to 25 percent slopes	144		
	Chillum		100	20
61D:	Croom gravelly loam, 15 to 25 percent slopes	142		
	Croom		100	20
61E:	Croom gravelly loam, 25 to 40 percent slopes	216		
	Croom		100	33
109D:	Hyattstown channery silt loam, 15 to 25 percent slopes, very rocky	2,748		
	Hyattstown		90	20
109E:	Hyattstown channery silt loam, 25 to 45 percent slopes, very rocky	207		
	Hyattstown		90	35
116D:	Blocktown channery silt loam, 15 to 25 percent slopes, very rocky	9,470		
	Blocktown		85	20
116E:	Blocktown channery silt loam, 25 to 45 percent slopes, very rocky	6,556		
	Blocktown		85	35
200	Pits, gravel	326	100	?
201	Pits, quarry	235	100	?

# MARYLAND COMAR - HIGHLY ERODIBLE SOILS PRINCE GEORGE'S COUNTY, MARYLAND

## SLOPES GREATER THAN 15 PERCENT

NOTES: Table is based on data from NRCS SSURGO data (7/31/2009) exported from the Soil Data Mart. This table lists soils meeting the Maryland COMAR and local SCD definition of Highly Erodible Soils (HES). Percent Composition is only given for major components, not minor components. Slope percentage is representative value (mid range). Highly Erodible Soils (HES) Criteria element: Slopes greater than 15 percent.

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV
AfE	Annapolis fine sandy loam, 15 to 25 percent slopes	220		
	Annapolis		80	20
AfF	Annapolis fine sandy loam, 25 to 40 percent slopes	114		
	Annapolis		75	33
BwD	Brinklow channery loam, 15 to 25 percent slopes	8		
	Brinklow		85	20
ByD	Brinklow-Blocktown channery loams, 15 to 25 percent slopes	6		
	Brinklow		50	20
	Blocktown		35	20
ByF	Brinklow-Blocktown channery loams, 25 to 65 percent slopes	64		
	Brinklow		50	45
	Blocktown		40	45
CbE	Chillum-Urban land complex, 15 to 25 percent slopes	62		
	Chillum		50	20
CcE	Christiana-Downer complex, 15 to 25 percent slopes	851		
	Christiana		45	20
	Downer		35	20
CcF	Christiana-Downer complex, 25 to 40 percent slopes	220		
	Christiana		45	35
	Downer		35	35

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	523		
	Christiana		35	20
	Downer		30	20
CnE	Collington-Wist complex, 15 to 25 percent slopes	3140		
	Collington		60	20
	Wist		25	20
CnF	Collington-Wist complex, 25 to 40 percent slopes	921		
	Collington		60	35
	Wist		25	35
CoE	Collington-Wist-Urban land complex, 15 to 25 percent slopes	472		
	Collington		40	20
	Wist		30	20
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	295		
	Croom		75	20
CsE	Croom-Howell-Collington complex, 15 to 25 percent slopes	869		
	Croom		50	18
	Howell		25	20
	Collington		25	20
CsF	Croom-Howell-Collington complex, 25 to 40 percent slopes	980		
	Croom		50	35
	Collington		25	35
	Howell		25	35
CwE	Croom-Marr complex, 15 to 25 percent slopes	8309		
	Croom		50	20
	Marr		30	18
CwG	Croom-Marr complex, 25 to 60 percent slopes	2381		

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV
	Croom		50	35
	Marr		30	35
CxE	Croom-Marr-Urban land complex, 15 to 25 percent slopes	810		
	Croom		45	20
	Marr		30	20
CzE	Croom-Urban land complex, 15 to 25 percent slopes	499		
	Croom		70	20
EwE	Evesboro-Downer complex, 15 to 25 percent slopes	191		
	Evesboro		40	20
	Downer		30	20
GmF	Grosstown-Marr-Hoghole complex, 15 to 40 percent slopes	3		
	Marr		30	28
	Grosstown		30	28
	Hoghole		15	28
	Dodon		10	28
HOE	Howell and Annapolis soils, 15 to 25 percent slopes	36		
	Howell		50	20
	Annapolis		40	20
HZE	Howell and Dodon soils, 15 to 25 percent slopes	94		
	Howell		50	20
	Dodon		30	20
HZF	Howell and Dodon soils, 25 to 40 percent slopes	40		
	Howell		50	30
	Dodon		30	30
McD	Manor loam, 15 to 25 percent slopes	187		
	Manor		90	20



Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV
MfF	Manor-Brinklow complex, 25 to 65 percent slopes, very rocky	417		
	Manor		55	43
	Brinklow		30	45
MnE	Marr-Dodon complex, 15 to 25 percent slopes	11947		
	Marr		50	20
	Dodon		35	20
PT	Pits, gravel	1097		
	Pits, gravel		100	40
SnE	Sassafras-Urban land complex, 15 to 25 percent slopes	281		
	Sassafras		55	20
SOE	Sassafras and Croom soils, 15 to 25 percent slopes	1238		
	Sassafras		40	20
	Croom		35	20
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	610		
	Sassafras		40	35
	Croom		35	35
UdbE	Udorthents, loamy, 15 to 25 percent slopes	114		
	Udorthents		100	20
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	747		
	Udorthents		100	20
UdrF	Udorthents, refuse substratum, 0 to 50 percent slopes	1198		
	Udorthents		100	25
WDF	Westphalia and Dodon soils, 25 to 40 percent slopes	6272		
	Westphalia		45	35
	Dodon		40	35

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV
WDG	Westphalia and Dodon soils, 40 to 80 percent slopes	1128		
	Westphalia		45	60
	Dodon		40	60

# MARYLAND COMAR - HIGHLY ERODIBLE SOILS

## PRINCE GEORGE'S COUNTY, MARYLAND

### SLOPES GREATER THAN 5 PERCENT WITH A K-FACTOR GREATER THAN 0.35

NOTES: Table is based on data from NRCS SSURGO data (7/31/2009) exported from the Soil Data Mart. This table lists soils meeting the Maryland COMAR and local SCD definition of Highly Erodible Soils (HES). Percent Composition is only given for major components, not minor components. Slope percentage is representative value (mid range). K-Factor is from surface layer. Highly Erodible Soils (HES) Criteria element: K Factor=K Factor > 0.35 and slopes > 5%

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV	K-Factor
AdC	Adelphia-Holmdel complex, 5 to 10 percent slopes	519			
	Adelphia		55	8	.37
BaC	Beltsville silt loam, 5 to 10 percent slopes	3302			
	Beltsville		70	7	.37
CaC	Chillum silt loam, 5 to 10 percent slopes	82			
	Chillum		75	8	.37
CaD	Chillum silt loam, 10 to 15 percent slopes	63			
	Chillum		75	14	.37
CbD	Chillum-Urban land complex, 5 to 15 percent slopes	222			
	Chillum		50	10	.37
CbE	Chillum-Urban land complex, 15 to 25 percent slopes	62			
	Chillum		50	20	.37
CcC	Christiana-Downer complex, 5 to 10 percent slopes	4543			
	Christiana		45	8	.49
CcD	Christiana-Downer complex, 10 to 15 percent slopes	1715			
	Christiana		50	12	.49
CcE	Christiana-Downer complex, 15 to 25 percent slopes	851			
	Christiana		45	20	.49
CcF	Christiana-Downer complex, 25 to 40 percent slopes	220			
	Christiana		45	35	.49

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV	K-Factor
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	6980			
	Christiana		30	10	.49
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	523			
	Christiana		35	20	.49
GfB	Glenelg-Wheaton-Urban land complex, 0 to 8 percent slopes	336			
	Wheaton		30	5	.43
GfC	Glenelg-Wheaton-Urban land complex, 8 to 15 percent slopes	5			
	Wheaton		30	11	.43
GwD	Grosstown-Woodstown-Beltsville complex, 5 to 15 percent slopes	311			
	Beltsville		20	10	.37
HwC	Howell-Dodon complex, 5 to 10 percent slopes	23			
	Dodon		40	8	.37
HZD	Howell and Dodon soils, 10 to 15 percent slopes	74			
	Dodon		40	13	.37
HZE	Howell and Dodon soils, 15 to 25 percent slopes	94			
	Dodon		30	20	.37
HZF	Howell and Dodon soils, 25 to 40 percent slopes	40			
	Dodon		30	30	.37
LxD	Liverpool-Piccowaxen complex, 5 to 15 percent slopes	296			
	Liverpool		45	10	.37
MnD	Marr-Dodon complex, 10 to 15 percent slopes	10473			
	Dodon		40	13	.37
UrcD	Urban land-Christiana-Downer complex, 5 to 15 percent slopes	3655			
	Christiana		15	8	.49
WDF	Westphalia and Dodon soils, 25 to 40 percent slopes	6272			

Mapunit Sym	Mapunit Name/Component Name(s)	Total Acres	Comp % RV	Slope % RV	K-Factor
	Dodon		40	35	.37
WDG	Westphalia and Dodon soils, 40 to 80 percent slopes	1128			
	Dodon		40	60	.37