

Report: Index Surface Runoff Classes
USDA-NRCS Soil Survey Database

Centre County, Pennsylvania

MAP UNIT SYMBOL	MAP UNIT NAME	COMPONENT NAME	DRAINAGE	SURFACE RUNOFF
AbB	ALBRIGHTS SILT LOAM, 3 TO 8 PERCENT SLOPES	ALBRIGHTS	moderately well	Medium
AbC	ALBRIGHTS SILT LOAM, 8 TO 15 PERCENT SLOPES	ALBRIGHTS	moderately well	Medium
AcB	ALBRIGHTS VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	ALBRIGHTS	moderately well	Low
AcC	ALBRIGHTS VERY STONY SILT LOAM, 8 TO 15 PERCENT SLOPES	ALBRIGHTS	moderately well	Medium
AlB	ALLEGHENY SILT LOAM, 2 TO 8 PERCENT SLOPES	ALLEGHENY	well	Medium
AnB	ANDOVER CHANNERY LOAM, 0 TO 8 PERCENT SLOPES	ANDOVER	poorly	Very high
AnC	ANDOVER CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	ANDOVER	poorly	Very high
AoB	ANDOVER VERY STONY LOAM, 8 TO 15 PERCENT SLOPES	ANDOVER	poorly	Very high
AoC	ANDOVER VERY STONY LOAM, 8 TO 15 PERCENT SLOPES	ANDOVER	poorly	Very high
ArA	ARMAGH SILT LOAM, 0 TO 3 PERCENT SLOPES	ARMAGH	poorly	Very high (1)
ArB	ARMAGH SILT LOAM, 3 TO 8 PERCENT SLOPES	ARMAGH	poorly	Very high (1)
At	ATKINS SILT LOAM	ATKINS	poorly	Very high
Ba	BASHER LOAM	BASHER	moderately well	Low
BkB	BERKS SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES	BERKS	well	Low
BkC	BERKS SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES	BERKS	well	Low
BkD	BERKS SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES	BERKS	well	Medium
BkD	BERKS SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES	WEIKERT	somewhat excessively	Medium
BlD	BERKS VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	BERKS	well	Low
BlD	BERKS VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	WEIKERT	somewhat excessively	Medium
BMF	BERKS AND WEIKERT SOILS, STEEP	BERKS	well	Medium
BMF	BERKS AND WEIKERT SOILS, STEEP	WEIKERT	somewhat excessively	Medium

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BrA	BRINKERTON SILT LOAM, 0 TO 3 PERCENT SLOPES	BRINKERTON	poorly	Very high
BrB	BRINKERTON SILT LOAM, 3 TO 8 PERCENT SLOPES	BRINKERTON	poorly	Very high
BrC	BRINKERTON SILT LOAM, 8 TO 15 PERCENT SLOPES	BRINKERTON	poorly	Very high
BsB	BRINKERTON VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	BRINKERTON	poorly	Very high
BtB	BUCHANAN LOAM, 2 TO 8 PERCENT SLOPES	BUCHANAN	moderately well	High
BuB	BUCHANAN CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	BUCHANAN	moderately well	High
BuC	BUCHANAN CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	BUCHANAN	moderately well	High
BxB	BUCHANAN EXTREMELY STONY LOAM, 0 TO 8 PERCENT SLOPES	BUCHANAN	moderately well	Medium
BxD	BUCHANAN EXTREMELY STONY LOAM, 8 TO 25 PERCENT SLOPES	BUCHANAN	moderately well	High
CA	CARLISLE MUCK	CARLISLE	very poorly	Very low
CdA	CAVODE SILT LOAM, 0 TO 3 PERCENT SLOPES	CAVODE	somewhat poorly	Very high
CdB	CAVODE SILT LOAM, 3 TO 8 PERCENT	CAVODE	somewhat poorly	Very high
Ch	CHAGRIN SOILS	CHAGRIN	well	Low
CkA	CLARKSBURG SILT LOAM, 0 TO 3 PERCENT SLOPES	CLARKSBURG	moderately well	Low
CkB	CLARKSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES	CLARKSBURG	moderately well	Medium
ClB	CLYMER SANDY LOAM, 3 TO 8 PERCENT SLOPES	CLYMER	well	Medium
ClC	CLYMER SANDY LOAM, 8 TO 15 PERCENT SLOPES	CLYMER	well	Medium
CvB	CLYMER VERY STONY SANDY LOAM, 0 TO 8 PERCENT SLOPES	CLYMER	well	Low
CvD	CLYMER VERY STONY SANDY LOAM, 8 TO 25 PERCENT SLOPES	CLYMER	well	Medium
Du	DUNNING SILTY, CLAY LOAM	DUNNING	very poorly	Very high
EdB	EDOM SILT LOAM, 2 TO 8 PERCENT SLOPES	EDOM	well	Medium
EdC	EDOM SILT LOAM, 8 TO 15 PERCENT SLOPES	EDOM	well	Medium
EdD	EDOM SILT LOAM, 15 TO 25 PERCENT SLOPES	EDOM	well	High

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ErB	ERNEST CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	ERNEST	moderately well	Medium
ErC	ERNEST CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	ERNEST	moderately well	Medium
ErD	ERNEST CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	ERNEST	moderately well	High
EvB	ERNEST VERY STONY SILT LOAM, 3 TO 8 PERCENT SLOPES	ERNEST	moderately well	Medium
EvD	ERNEST VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	ERNEST	moderately well	Medium
G1B	GILPIN CHANNERY SILT LOAM, 2 TO 8 PERCENT SLOPES	GILPIN	well	Medium
G1C	GILPIN CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	GILPIN	well	Medium
G1D	GILPIN CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	GILPIN	well	High
HaA	HAGERSTOWN SILT LOAM, 0 TO 3 PERCENT SLOPES	HAGERSTOWN	well	Low
HaB	HAGERSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES	HAGERSTOWN	well	Medium
HaC	HAGERSTOWN SILT LOAM, 8 TO 15 PERCENT SLOPES	HAGERSTOWN	well	Low
HcB	HAGERSTOWN SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	HAGERSTOWN	well	Medium
HcC	HAGERSTOWN SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES	HAGERSTOWN	well	Medium
HcD	HAGERSTOWN SILTY CLAY LOAM, 15 TO 25 PERCENT SLOPES	HAGERSTOWN	well	High
HhB	HAZLETON CHANNERY SANDY LOAM, 3 TO 8 PERCENT SLOPES	HAZLETON	well	Low
HhC	HAZLETON CHANNERY SANDY LOAM, 8 TO 15 PERCENT SLOPES	HAZLETON	well	Low
HhD	HAZLETON CHANNERY SANDY LOAM, 15 TO 25 PERCENT SLOPES	HAZLETON	well	Medium
HSB	HAZLETON EXTREMELY STONY SANDY LOAM, GENTLY SLOPING	HAZLETON	well	Very low
HSD	HAZLETON EXTREMELY STONY SANDY LOAM, MODERATELY STEEP	HAZLETON	well	Medium
HTF	HAZLETON-DEKALB ASSOCIATION, VERY STEEP	HAZLETON	well	Medium

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HTF	HAZLETON-DEKALB ASSOCIATION, VERY STEEP	DEKALB	somewhat excessively	Low
HuA	HUBLERSBURG SILT LOAM, 0 TO 3 PERCENT SLOPES	HUBLERSBURG	well	Low
HuB	HUBLERSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES	HUBLERSBURG	well	Medium
HuC	HUBLERSBURG SILT LOAM, 8 TO 15 PERCENT SLOPES	HUBLERSBURG	well	Medium
HuD	HUBLERSBURG SILT LOAM, 15 TO 25 PERCENT SLOPES	HUBLERSBURG	well	High
LaB	LAIDIG CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	LAIDIG	well	Medium
LaC	LAIDIG CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	LAIDIG	well	Medium
LaD	LAIDIG CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	LAIDIG	well	High
LcB	LAIDIG EXTREMELY STONY LOAM, 0 TO 8 PERCENT SLOPES	LAIDIG	well	Low
LcD	LAIDIG EXTREMELY STONY LOAM, 8 TO 25 PERCENT SLOPES	LAIDIG	well	Medium
LDF	LAIDIG EXTREMELY STONY LOAM, STEEP	LAIDIG	well	High
LkB	LECK KILL CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	LECK KILL	well	Low
LkC	LECK KILL CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	LECK KILL	well	Low
LkD	LECK KILL CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	LECK KILL	well	Medium
LlB	LECK KILL VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	LECK KILL	well	Very low
LlD	LECK KILL VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	LECK KILL	well	Low
LMF	LECK KILL-CALVIN SOILS, STEEP	LECK KILL	well	Medium
LMF	LECK KILL-CALVIN SOILS, STEEP	CALVIN	well	Medium
LtB	LEETONIA EXTREMELY STONY LOAMY SAND, 0 TO 12 PERCENT SLOPES	LEETONIA	well	Low
LvB	LEETONIA SAND, VARIANT, 3 TO 8 PERCENT SLOPES	LEETONIA	well	Low
LvC	LEETONIA SAND, VARIANT, 8 TO 15 PERCENT SLOPES	LEETONIA	well	Low

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Lx	LINDSIDE SOILS	LINDSIDE	moderately well	Low
MaB	MARKS SILT LOAM, 2 TO 10 PERCENT SLOPES	MARKES	poorly	Very high
MeB	MECKESVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	MECKESVILLE	well	Medium
MeC	MECKESVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES	MECKESVILLE	well	Medium
MkB	MECKESVILLE VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	MECKESVILLE	well	Low
MkD	MECKESVILLE VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	MECKESVILLE	well	Medium
Mm	MELVIN SILT LOAM	MELVIN	poorly	Very high
MnB	MILLHEIM SILT LOAM, 2 TO 8 PERCENT SLOPES	MILLHEIM	well	Medium
MnC	MILLHEIM SILT LOAM, 8 TO 15 PERCENT SLOPES	MILLHEIM	well	Medium
MnD	MILLHEIM SILT LOAM, 15 TO 25 PERCENT SLOPES	MILLHEIM	well	High
MoB	MONONGAHELA SILT LOAM, 2 TO 8 PERCENT SLOPES	MONONGAHELA	moderately well	Medium
MrB	MORRISON SANDY LOAM, 2 TO 8 PERCENT SLOPES	MORRISON	well	Low
MrC	MORRISON SANDY LOAM, 8 TO 15 PERCENT SLOPES	MORRISON	well	Low
MrD	MORRISON SANDY LOAM, 15 TO 25 PERCENT SLOPES	MORRISON	well	Medium
MsB	MORRISON VERY STONY SANDY LOAM, 0 TO 8 PERCENT SLOPES	MORRISON	well	Very low
MsD	MORRISON VERY STONY SANDY LOAM, 8 TO 25 PERCENT SLOPES	MORRISON	well	Low
MTF	MORRISON VERY STONY SANDY LOAM, STEEP	MORRISON	well	Medium
MTF	MORRISON VERY STONY SANDY LOAM, STEEP	MURRILL	well	Medium
MuA	MURRILL CHANNERY SILT LOAM, 0 TO 3 PERCENT SLOPES	MURRILL	well	Low
MuB	MURRILL CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	MURRILL	well	Medium
MuC	MURRILL CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES	MURRILL	well	Medium

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MuD	MURRILL CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	MURRILL	well	High
MvB	MURRILL VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	MURRILL	well	Low
MvD	MURRILL VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES	MURRILL	well	Medium
No	NOLIN SILT LOAM, LOCAL ALLUVIUM, 0 TO 5 PERCENT SLOPES	NOLIN	well	Low
OhB	OPEQUON-HAGERSTOWN COMPLEX, 3 TO 8 PERCENT SLOPES	OPEQUON	well	Medium
OhB	OPEQUON-HAGERSTOWN COMPLEX, 3 TO 8 PERCENT SLOPES	HAGERSTOWN	well	Medium
OhC	OPEQUON-HAGERSTOWN COMPLEX, 8 TO 15 PERCENT SLOPES	OPEQUON	well	Medium
OhC	OPEQUON-HAGERSTOWN COMPLEX, 8 TO 15 PERCENT SLOPES	HAGERSTOWN	well	Medium
OhD	OPEQUON-HAGERSTOWN COMPLEX, 15 TO 25 PERCENT SLOPES	OPEQUON	well	High
OhD	OPEQUON-HAGERSTOWN COMPLEX, 15 TO 25 PERCENT SLOPES	HAGERSTOWN	well	High
ORF	OPEQUON-HAGERSTOWN COMPLEX, STEEP	OPEQUON	well	High
ORF	OPEQUON-HAGERSTOWN COMPLEX, STEEP	HAGERSTOWN	well	High
OxB	OPEQUON-ROCK OUTCROP COMPLEX, 0 TO 8 PERCENT SLOPES	OPEQUON	well	Medium
OxD	OPEQUON-ROCK OUTCROP COMPLEX, 8 TO 25 PERCENT SLOPES	OPEQUON	well	Medium
OxD	OPEQUON-ROCK OUTCROP COMPLEX, 8 TO 25 PERCENT SLOPES	ROCK OUTCROP	excessively	---
Ph	PHILO LOAM	PHILO	moderately well	Low
Pk	PHILO-ATKINS VERY STONY SOILS	PHILO	moderately well	Low
Pk	PHILO-ATKINS VERY STONY SOILS	ATKINS	poorly	Very high
Po	POPE SOILS	POPE	well	Low
Pu	PURDY SILT LOAM	PURDY	poorly	High
RaB	RAYNE SILT LOAM, 2 TO 10 PERCENT SLOPES	RAYNE	well	Medium
Ru	RUBBLE LAND	RUBBLE LAND	well	Medium
Sm	STRIP MINES, VERY SHALY SUBSTRATUM	STRIP MINES	well	Medium

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Ty	TYLER SILT LOAM	TYLER	somewhat poorly	Very high
UmB	UNGERS CHANNERY LOAM, 3 TO 8 PERCENT SLOPES	UNGERS	well	Medium
UmC	UNGERS CHANNERY LOAM, 8 TO 15 PERCENT SLOPES	UNGERS	well	Medium
UmD	UNGERS CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	UNGERS	well	High
UnB	UNGERS VERY STONY LOAM, 0 TO 8 PERCENT SLOPES	UNGERS	well	Low
UnD	UNGERS VERY STONY LOAM, 8 TO 25 PERCENT SLOPES	UNGERS	well	Medium
URB	URBAN LAND-HAGERSTOWN COMPLEX, GENTLY SLOPING	URBAN LAND		---
URB	URBAN LAND-HAGERSTOWN COMPLEX, GENTLY SLOPING	HAGERSTOWN	well	Medium
VaC	VANDERLIP LOAMY SAND, 5 TO 20 PERCENT SLOPES	VANDERLIP	well	Very low
w	WATER	WATER		---
WeC	WEIKERT SHALY SILT LOAM, 5 TO 15 PERCENT SLOPES	WEIKERT	somewhat excessively	Low
WeD	WEIKERT SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES	WEIKERT	somewhat excessively	Medium
WhA	WHARTON SILT LOAM, 0 TO 3 PERCENT SLOPES	WHARTON	moderately well	Medium
WhB	WHARTON SILT LOAM, 3 TO 8 PERCENT SLOPES	WHARTON	moderately well	High
WhC	WHARTON SILT LOAM, 8 TO 15 PERCENT SLOPES	WHARTON	moderately well	High
WyA	WYOMING GRAVELLY SANDY LOAM, RARELY FLOODED, 0 TO 5 PERCENT SLOPES	WYOMING	somewhat excessively	Negligible

(1) A null value in Ksat makes the calculated runoff class uncertain. Null values are most commonly in bedrock layers or hardpans that should be assigned impermeable or very slow Ksat values. Calculation Based on National Soils Handbook, Part 618-50; and Soil Survey Manual, p113-114