

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

Union 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
AnA	ALLENWOOD GRAVELLY SILT LOAM, 0 TO 3 PERCENT SLOPES	Allenwood	well	Low
AnD	ALLENWOOD GRAVELLY SILT LOAM, 15 TO 25 PERCENT SLOPES	Allenwood	well	High
AoB	ALLENWOOD AND WASHINGTON SOILS, 3 TO 8 PERCENT SLOPES	Allenwood	well	Medium
AoB	ALLENWOOD AND WASHINGTON SOILS, 3 TO 8 PERCENT SLOPES	WASHINGTON	well	Medium
AoC	ALLENWOOD AND WASHINGTON SOILS, 8 TO 15 PERCENT SLOPES	Allenwood	well	Medium
AoC	ALLENWOOD AND WASHINGTON SOILS, 8 TO 15 PERCENT SLOPES	WASHINGTON	well	Medium
ArA	ALVIRA SILT LOAM, 0 TO 3 PERCENT SLOPES	ALVIRA	somewhat poorly	Very high
ArB	ALVIRA SILT LOAM, 3 TO 8 PERCENT SLOPES	ALVIRA	somewhat poorly	Very high
ArC	ALVIRA SILT LOAM, 8 TO 15 PERCENT SLOPES	ALVIRA	somewhat poorly	Very high
Ba	BARBOUR SOILS, FREQUENTLY FLOODED	BARBOUR	well	Low
Bb	BARBOUR-LINDEN COMPLEX, RARELY FLOODED	BARBOUR	well	Low
Bb	BARBOUR-LINDEN COMPLEX, RARELY FLOODED	LINDEN	well	Very low
Bc	BASHER SOILS	BASHER	moderately well	Low
Bd	BASHER SOILS, FREQUENTLY FLOODED	BASHER	moderately well	Low
BeB	BEDINGTON SILT LOAM, 3 TO 8 PERCENT SLOPES	BEDINGTON	well	Medium
BeC	BEDINGTON SILT LOAM, 8 TO 15 PERCENT SLOPES	BEDINGTON	well	Medium
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
BuB	BUCHANAN GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES	BUCHANAN	moderately well	High
BxB	BUCHANAN VERY STONY LOAM, 0 TO 8 PERCENT SLOPES	BUCHANAN	moderately well	Medium

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

Union County, Pennsylvania

MAP UNIT SYMBOL	MAP UNIT NAME	COMPONENT NAME	DRAINAGE	SURFACE RUNOFF
BxD	BUCHANAN VERY STONY LOAM, 8 TO 25 PERCENT SLOPES	BUCHANAN	moderately well	High
CaB	CALVIN-KLINESVILLE SHALY SILT LOAMS, 3 TO 8 PERCENT SLOPES	CALVIN	well	Low
CaB	CALVIN-KLINESVILLE SHALY SILT LOAMS, 3 TO 8 PERCENT SLOPES	KLINESVILLE	somewhat excessively	Medium
CaC	CALVIN-KLINESVILLE SHALY SILT LOAMS, 8 TO 15 PERCENT SLOPES	CALVIN	well	Low
CaC	CALVIN-KLINESVILLE SHALY SILT LOAMS, 8 TO 15 PERCENT SLOPES	KLINESVILLE	somewhat excessively	Medium
CaD	CALVIN-KLINESVILLE SHALY SILT LOAMS, 15 TO 25 PERCENT SLOPES	CALVIN	well	Medium
CaD	CALVIN-KLINESVILLE SHALY SILT LOAMS, 15 TO 25 PERCENT SLOPES	KLINESVILLE	somewhat excessively	High
DeB	DEKALB EXTREMELY STONY SANDY LOAM, 0 TO 8 PERCENT SLOPES	DEKALB	well	Low
DeD	DEKALB EXTREMELY STONY SANDY LOAM, 8 TO 25 PERCENT SLOPES	DEKALB	well	Medium
DeF	DEKALB EXTREMELY STONY SANDY LOAM, STEEP	DEKALB	well	Medium
Dy	DYSTROCHREPTS, BOULDERY	DYSTROCHREPTS		---
EdB	EDOM COMPLEX, 3 TO 8 PERCENT SLOPES	EDOM	well	Medium
EdC	EDOM COMPLEX, 8 TO 15 PERCENT SLOPES	EDOM	well	Medium
EdD	EDOM COMPLEX, 15 TO 25 PERCENT SLOPES	EDOM	well	High
EsB	ELLIBER CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES	ELLIBER	well	Low
EsC	ELLIBER CHERTY SILT LOAM, 8 TO 15 PERCENT SLOPES	ELLIBER	well	Low
EsD	ELLIBER CHERTY SILT LOAM, 15 TO 25 PERCENT SLOPES	ELLIBER	well	Medium
EtB	ELLIBER VERY CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES	ELLIBER	well	Low
EtC	ELLIBER VERY CHERTY SILT LOAM, 8 TO 15 PERCENT SLOPES	ELLIBER	well	Low
EtD	ELLIBER VERY CHERTY SILT LOAM, 15 TO 25 PERCENT SLOPES	ELLIBER	well	Medium
EtF	ELLIBER VERY CHERTY SILT LOAM, 25 TO 70 PERCENT SLOPES	ELLIBER	well	Medium

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

Union County, Pennsylvania

MAP UNIT SYMBOL	MAP UNIT NAME	COMPONENT NAME	DRAINAGE	SURFACE RUNOFF
EvB	EVENDALE CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES	EVENDALE	somewhat poorly	Very high
HaB	HAGERSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES	HAGERSTOWN	well	Medium
HaC	HAGERSTOWN SILT LOAM, 8 TO 15 PERCENT SLOPES	HAGERSTOWN	well	Medium
HaD	HAGERSTOWN SILT LOAM, 15 TO 25 PERCENT SLOPES	HAGERSTOWN	well	High
HtB	HARTLETON CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	HARTLETON	well	Low
HtC	HARTLETON CHANNERY SILT LOAM, 8 TO 15 PERCENT	HARTLETON	well	Low
HtD	HARTLETON CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES	HARTLETON	well	Medium
HuB	HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 0 TO 8 PERCENT SLOPES	HAZLETON	well	Low
HuB	HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 0 TO 8 PERCENT SLOPES	CLYMER	well	Medium
HuD	HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 8 TO 25 PERCENT SLOPES	HAZLETON	well	Medium
HuD	HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 8 TO 25 PERCENT SLOPES	CLYMER	well	High
HuF	HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 25 TO 80 PERCENT SLOPES	HAZLETON	well	Medium
HuF	HAZLETON AND CLYMER EXTREMELY STONY SANDY LOAMS, 25 TO 80 PERCENT SLOPES	CLYMER	well	High
Hv	HOLLY SILT LOAM	HOLLY	poorly	Very high
Hy	HOLLY SILT LOAM, PONDED	HOLLY	very poorly	Low
Hz	HOLLY SILT LOAM, RARELY FLOODED	HOLLY	poorly	Very high
KmB	KREAMER CHERTY SILT LOAM, 3 TO 8 PERCENT SLOPES	KREAMER	moderately well	Very high
LaB	LAIDIG GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES	LAIDIG	well	Medium
LaC	LAIDIG GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	LAIDIG	well	Medium
LbB	LAIDIG EXTREMELY STONY LOAM, 0 TO 8 PERCENT SLOPES	LAIDIG	well	Medium
LdD	LAIDIG AND MECKESVILLE EXTREMELY STONY SOILS, 8 TO 15 PERCENT SLOPES	LAIDIG	well	Medium

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

Union County, Pennsylvania

MAP UNIT SYMBOL	MAP UNIT NAME	COMPONENT NAME	DRAINAGE	SURFACE RUNOFF
LdD	LAIDIG AND MECKESVILLE EXTREMELY STONY SOILS, 8 TO 15 PERCENT SLOPES	MECKESVILLE	well	Medium
LdF	LAIDIG AND MECKESVILLE EXTREMELY STONY SOILS, STEEP	LAIDIG	well	High
LdF	LAIDIG AND MECKESVILLE EXTREMELY STONY SOILS, STEEP	MECKESVILLE	well	High
LnB	LECK KILL SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES	LECK KILL	well	Low
LnC	LECK KILL SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES	LECK KILL	well	Low
LtC	LEETONIA EXTREMELY STONY LOAMY SAND, 0 TO 15 PERCENT SLOPES	LEETONIA	well	Very low
Lw	LINDEN SILT LOAM	LINDEN	well	Very low
MkB	MECKESVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	MECKESVILLE	well	Medium
MkC	MECKESVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES	MECKESVILLE	well	Medium
MkD	MECKESVILLE SILT LOAM, 15 TO 25 PERCENT SLOPES	MECKESVILLE	well	High
MoA	MONONGAHELA SILT LOAM, 0 TO 3 PERCENT SLOPES	MONONGAHELA	moderately well	Low
MoB	MONONGAHELA SILT LOAM, 3 TO 8 PERCENT SLOPES	MONONGAHELA	moderately well	Medium
OpB	OPEQUON SILTY CLAY LOAM, 3 TO 8 PERCENT SLOPES	OPEQUON	well	Medium
OpD	OPEQUON SILTY CLAY LOAM, 8 TO 25 PERCENT SLOPES	OPEQUON	well	High
OpE	OPEQUON SILTY CLAY LOAM, 25 TO 50 PERCENT SLOPES	OPEQUON	well	High
Pa	PITS	PITS		---
Qu	QUARRIES	QUARRIES		---
Ru	RUBBLE LAND	RUBBLE LAND		---
ShA	SHELMADINE SILT LOAM, 0 TO 3 PERCENT SLOPES	SHELMADINE	poorly	Very high
ShB	SHELMADINE SILT LOAM, 3 TO 8 PERCENT SLOPES	SHELMADINE	poorly	Very high
SmB	SHELMADINE VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	SHELMADINE	poorly	Very high

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

Union County, Pennsylvania

MAP UNIT SYMBOL	MAP UNIT NAME	COMPONENT NAME	DRAINAGE	SURFACE RUNOFF
Ug	UDIFLUVENTS AND FLUVAQUENTS, GRAVELLY	UDIFLUVENTS		Very low
Ug	UDIFLUVENTS AND FLUVAQUENTS, GRAVELLY	FLUVAQUENTS		Very high
UoB	UNGERS VERY STONY LOAM, 3 TO 8 PERCENT SLOPES	UNGERS	well	Medium
UoD	UNGERS VERY STONY LOAM, 8 TO 25 PERCENT SLOPES	UNGERS	well	High
UoE	UNGERS VERY STONY LOAM, 25 TO 50 PERCENT SLOPES	UNGERS	well	High
W	WATER	WATER		---
WaB	WASHINGTON SILT LOAM, WET SUBSTRATUM, 3 TO 8 PERCENT SLOPES	WASHINGTON	moderately well	High
WbA	WATSON SILT LOAM, 0 TO 3 PERCENT SLOPES	WATSON	moderately well	Medium
WbB	WATSON SILT LOAM, 3 TO 8 PERCENT SLOPES	WATSON	moderately well	High
WbC	WATSON SILT LOAM, 8 TO 15 PERCENT SLOPES	WATSON	moderately well	High
WeB	WEIKERT SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES	WEIKERT	somewhat excessively	Medium
WeC	WEIKERT SHALY SILT LOAM, 8 TO 15 PERCENT SLOPES	WEIKERT	somewhat excessively	Medium
WeD	WEIKERT SHALY SILT LOAM, 15 TO 25 PERCENT SLOPES	WEIKERT	somewhat excessively	High
WkE	WEIKERT AND KLINESVILLE SHALY SILT LOAMS, STEEP	WEIKERT	somewhat excessively	High
WkE	WEIKERT AND KLINESVILLE SHALY SILT LOAMS, STEEP	KLINESVILLE	somewhat excessively	High
WsA	WHEELING SOILS, 0 TO 3 PERCENT SLOPES	WHEELING	well	Low
WsB	WHEELING SOILS, 3 TO 8 PERCENT SLOPES	WHEELING	well	Medium
WsC	WHEELING SOILS, 8 TO 15 PERCENT SLOPES	WHEELING	well	Medium
WyB	WYOMING GRAVELLY SANDY LOAM, 3 TO 8 PERCENT SLOPES	WYOMING	somewhat excessively	Very low

(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