Table 1.1-1. Selected properties and typical capabilities of major Pennsylvania soils.

Note: Ratings provide relative information for comparing soils and should not be used quantitatively.
Moisture contents: corn grain = 15.5%; corn silage = 65%; alfalfa and clover = dry matter; wheat, oats, and barley = 12%; sorghum/sudan = 65%; and soybeans = 13%

Soil series	*Depth class*[1]	*Drain class*[2]	*Leaching potential*[3]	*Crop prod. group*	*Corn grain (bu/A)*	*Corn silage (T/A)*	*Alfalfa (T/A)*	*Clover (T/A)*	*Wheat (bu/A)*	*Oats (bu/A)*	*Barley (bu/A)*	*Sorghum/sudan (T/A)*	*Soybeans (bu/A)*
Abbottstown	D[5]	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Albrights	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Allegheny	D	WD	2	1	150	25	6	4	60	80	75	25	45
Allenwood	D	WD	2	1	150	25	6	4	60	80	75	25	45
Alton	D	WD[6]	3	3	125	21	4	3	50	60	50	21	30
Alvira	D[5]	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Andover	D[5]	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Armagh	D	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Atkins	D	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Barbour	D	WD	2[7]	1	150	25	6	4	60	80	75	25	45
Basher	D	MWD	2[7]	2	125	21	5	3.5	60	80	75	21	40
Bath	D[5]	WD	1[7]	2	125	21	5	3.5	60	80	75	21	40
Bedington	D	WD	2	1	150	25	6	4	60	80	75	25	45
Berks	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Birdsall	D	PD	1[7]	5	100	17	3[8]	2	40[8]	60	40[8]	17	30
Birdsboro	D	MWD	2[7]	1	150	25	6	4	60	80	75	25	45
Blairton	MD	MWD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Bowmansville	D	SWPD	2[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Braceville	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Brecknock	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Brinkerton	D	PD	2	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Brooke	MD	WD	1	2	125	21	5	3.5	60	80	75	21	40
Buchanan	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Bucks	D	WD	2	1	150	25	6	4	60	80	75	25	45
Calvin	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Cambridge	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Canfield	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Cavode	D	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Chenango	D	WD[6]	3	2	125	21	5	3.5	60	80	75	21	40
Chester	D	WD	2	1	150	25	6	4	60	80	75	25	45
Chippewa	D[5]	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Clarksburg	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Clymer	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Comly	D	SWPD	1[7]	3	125	21	4[8]	3	50	60	50	21	30
Conestoga	D	WD	2	1	150	25	6	4	60	80	75	25	45
Conotton	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Cookport	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Croton	D[5]	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Culleoka	MD	WD	2	3	125	21	4	3	50	60	50	21	30
DeKalb	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Dormont	D	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Duffield	D	WD	2	1	150	25	6	4	60	80	75	25	45
Duncannon	D	WD	2	1	150	25	6	4	60	80	75	25	45
Edgemont	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Edom	D	WD	1	2	125	21	5	3.5	60	80	75	21	40
Elliber	D	WD[6]	3	2	125	21	5	3.5	60	80	75	21	40
Erie	D[4]	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Ernest	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Fredon	D	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Frenchtown	D[5]	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Gilpin	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Glenelg	D	WD	2	1	150	25	6	4	60	80	75	25	45
Glenville	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Guernsey	D	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Hagerstown	D	WD	1	1	150	25	6	4	60	80	75	25	45
Hanover	D[5]	WD	1[7]	2	125	21	5	3.5	60	80	75	21	40
Hartleton	D	WD	2	3	125	21	4	3	50	60	50	21	30
Hazelton	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Highfield	D	WD	2	1	150	25	6	4	60	80	75	25	45
Holly	D	PD	2[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30

(continued)

Table 1.1-1. Selected properties and typical capabilities of major Pennsylvania soils (continued).

Soil series	*Depth class*[1]	*Drain class*[2]	*Leaching potential*[3]	*Crop prod. group*	*Corn grain (bu/A)*	*Corn silage (T/A)*	*Alfalfa (T/A)*	*Clover (T/A)*	*Wheat (bu/A)*	*Oats (bu/A)*	*Barley (bu/A)*	*Sorghum/sudan (T/A)*	*Soybeans (bu/A)*
Hublersburg	D	WD	2	1	150	25	6	4	60	80	75	25	45
Huntington	D	WD	2	1	150	25	6	4	60	80	75	25	45
Klinesville	S	WD	2	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Kreamer	D	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Lackawanna	D[5]	WD	1[7]	2	125	21	5	3.5	60	80	75	21	40
Laidig	D[5]	WD	1[7]	2	125	21	5	3.5	60	80	75	21	40
Langford	D[5]	WD	1[7]	3	125	21	4	3	50	60	50	21	30
Lansdale	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Leck Kill	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Lehigh	D	MWD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Letort	D	WD	2	1	150	25	6	4	60	80	75	25	45
Lewisberry	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Lordstown	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Manor	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Mardin	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Meckesville	D[5]	WD	1[7]	2	125	21	5	3.5	60	80	75	21	40
Melvin	D	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Mertz	D	WD	1	2	125	21	5	3.5	60	80	75	21	40
Monongahela	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Morris	D[4]	SWPD	2	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Morrison	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Murrill	D	WD	2	1	150	25	6	4	60	80	75	25	45
Neshaminy	D	WD	2	1	150	25	6	4	60	80	75	25	45
Opequon	S	WD	2	4	100	17	4[8]	2.5	40	60	40	17	30
Oquaga	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Penn	MD	WD	2	3	125	21	4	3	50	60	50	21	30
Philo	D	MWD	2[7]	2	125	21	5	3.5	60	80	75	21	40
Platea	D[5]	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Pope	D	WD	2	1	150	25	6	4	60	80	75	25	45
Rainsboro	D	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Ravenna	D[5]	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Rayne	D	WD	2	1	150	25	6	4	60	80	75	25	45
Readington	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Reaville	D	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Red Hook	D	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Sheffield	D[5]	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Shelmadine	D[5]	PD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Swartswood	D[5]	MWD	1[7]	2	125	21	5	3.5	60	80	75	21	40
Tunkhannock	D	WD[6]	3	2	125	21	5	3.5	60	80	75	21	40
Tyler	D	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Upshur	D	WD	1	2	125	21	5	3.5	60	80	75	21	40
Venango	D[5]	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Volusia	D	SWPD	1[7]	4	100	17	4[8]	2.5	40[8]	60	40[8]	17	30
Washington	D	WD	2	1	150	25	6	4	60	80	75	25	45
Watson	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Weikert	S	WD[6]	2	4	100	17	4[8]	2.5	40	60	40	17	30
Wellsboro	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Westmoreland	D	WD	2	2	125	21	5	3.5	60	80	75	21	40
Wharton	D	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Wheeling	D	WD	2	1	150	25	6	4	60	80	75	25	45
Wurtsboro	D[5]	MWD	1[7]	3	125	21	4	3	50	60	50	21	30
Wyoming	D	WD[6]	3	3	125	21	4	3	50	60	50	21	30

1. Depth classes: D = deep (>40 inches); MD = moderately deep (20 to 40 inches); S = shallow (<20 inches)
2. Drainage classes: WD = well drained; MWD = moderately well drained; SWPD = somewhat poorly drained; PD = poorly drained
3. Leaching ratings—these are only a relative rating of leaching potential. The higher the number, the greater the relative leaching potential.
4. A fragipan is present at 10 to 16 inches (0.25 to 0.40 meters) below the surface of the soil.
5. A fragipan is present at 16 to 40 inches (0.40 to 1 meter) below the surface.
6. These soils are well drained to excessively well drained.
7. These soils have a seasonal high water table that is less than 6 feet from the surface. Leaching potential may be a consideration of water resource use and water table following pesticide application.
8. Crop is not well suited for this soil.