

Table 2-1

Soil Associations and their Suitability for Agriculture and Development

Association	General Characteristics	Agricultural Suitability	Suitability for Development
1 Ontario-Hilton Association	Deep, well drained and moderately well drained. Found on tops and sides of drumlins and moraines in the Town of Shelby.	Soils have medium to high value for farming. Drainage improvements are needed in the wetter soils.	Most areas pose moderate limitations for residential development. Areas with high water table present severe limitations for development.
3 Bombay-Madrid Association	Deep, moderately well drained and well drained.	Medium to high value for farming.	Seasonal high water table presents slight to moderate limitations development.
4 Cazenovia-Ovid Association	Southern Ridgeway, northern Shelby (including Rt. 31 corridor). Seasonal high water table and slow permeability.	Excellent potential for hay and grain crops if adequately drained. In areas free of stones and other coarse fragments, good potential for vegetables.	Clayey subsoils pose serious limitations to residential development, as the infiltration rate and suitability for septic systems is poor.
5 Hilton-Appleton Association	Deep, moderately well drained and somewhat poorly drained. In Yates, may be used for vegetables and fruit. In Shelby, for hay and grain crops. Mixed uses in Ridgeway.	Good to excellent potential for hay and grain crops if adequately drained. Good potential for vegetables if free of stones.	Seasonal high water table presents severe limitations for development.
6 Hilton-Appleton-Kendaia	Deep, moderately well drained and somewhat poorly drained, 3 1/2 to 6 feet thick over bedrock. Located in southern Ridgeway and northern Shelby. Better drained Hilton soils located on hillsides and hilltops.	Moderate limitations for farming due to seasonal wetness in certain areas.	Seasonal high water table presents severe limitations for development.
7 Ovid-Churchville Association	Deep, somewhat poorly drained. Located in northwestern Yates, southwestern Ridgeway, small areas in Shelby.	Seasonal high water table presents moderate limitations to farming. Good potential for most crops if adequately drained.	Seasonal high water table presents severe limitations to development.

Table 2-1 (continued)

Association	General Characteristics	Agricultural Suitability	Suitability for Development
8 Lyons-Appleton association	Nearly level; deep, very poorly drained to somewhat poorly drained. Small area located in northeast Shelby in a lower, wetter area. Prolonged seasonal high water table at or near the surface. May be ponded during some part of the year.	Moderate to severe limitations due to seasonal high water table.	Severe limitations due to seasonal high water table.
9 Sun-Massena Association	Deep, very poorly drained to somewhat poorly drained. Located in scattered low depressions where surface water accumulates. Subject to ponding during wet periods. Water table at or near the surface.	Too wet for intensive farm use. Potential for ponds, marshes and wildlife habitat.	Severe limitations for development due to high water table.
10 Wassaic-Newstead-Farmington Association	Areas in Town of Shelby. Deep and well-drained on higher, drier parts of landscape; poorly drained on lower, wetter parts of landscape where runoff accumulates.	Limited use for farming due to seasonal wetness or shallow depth to bedrock.	Higher soils have severe limitations for development as they are only 10-20 inches over bedrock. Lower soils have severe limitations for development due to seasonal high water table.
11 Lockport-Ovid Association	Broad flat areas, overlying shale bedrock. Moderately deep and deep, somewhat poorly drained, with seasonal high water table.	Limited use for farming. Much is idle or reverting to woods.	Limited use for development due to seasonal high water table, shallow depth to bedrock.
12 Brockport Association	Gently sloping; moderately deep, somewhat poorly drained. Ovid soils are 3 1/2 to 6 feet over shale bedrock.	Limitations for farm uses due to seasonal high water.	Limitations for development due to seasonal high water.
13 Arkport-Collamer Association	Rolling areas, north-central Yates. Deep, well drained and moderately well drained. Mostly idle, pastured, or wooded.	Seriously limited for farm uses due to erosion hazard and slope.	Seriously limited for development due to erosion hazard and slope.

Table 2-1 (continued)

14	Arkport-Galen Association	Gently sloping; deep, well drained and moderately well drained. Includes some gravel pits. Mostly cleared and used intensively for farming. Small areas, Towns of Ridgeway and Yates.	Suited to fruit crops that require good drainage, and for vegetables with erosion control.	Limitations due to seasonal high water table in Galen soils, but few limitations for development in Arkport soils.
15	Elnora-Colonie Association	Nearly level to gently sloping; deep, moderately well drained and well drained. Elnora soils have temporary seasonal water table in spring and during other wet periods. Small areas of Yates, Ridgeway and Shelby.	Moderate limitations to farming due to seasonal high water table or coarse texture.	Severe limitations to development in areas with seasonal high water table
16	Gelen-Minoa Association	Deep, moderately well drained and somewhat poorly drained. Surface water accumulates in lowest areas. Temporary seasonal high water table, longer in Minoa soils. Vegetables and fruit grown in large area south of Lyndonville.	Limitations to farming due to seasonal wetness and erosion hazard.	Severe limitations to development due to seasonal high water table.
17	Elnora-Junius Association	Nearly level. Located in Ridgeway in a band north of the Canal. Deep, moderately well drained and somewhat poorly drained. Seasonal high water table. Mostly idle or in hay or grain crops.	Moderate to severe limitations to farming due to poor natural drainage and coarse texture. Suitable for vegetable crops that require sandy soils.	Severe limitations to development due to poor natural drainage.
18	Cosad-Claverack Association	Nearly level. Deep, somewhat poorly drained and moderately well drained. Underlain by silt and clay at 18-36", with seasonal high water table. Located in small areas in Ridgeway and Yates. Most areas cleared and used for farming.	Some slow or very slow permeability in substratum limit farming.	Some slow or very slow permeability in substratum limit farming.
19	Lamson-Cheektowaga Association	Nearly level. Deep, poorly drained and very poorly drained. Water table at or near the surface most of the year. Located in scattered areas of Shelby and Yates. Mostly in woods, pasture, or hay.	Adequate drainage needed to cultivate crops. Moderate limitations for farming.	Severe limitations for development due to prolonged high water table.

Table 2-1 (continued)

20	Columnar-Niagara Association	Gently sloping. Deep, moderately well drained and somewhat poorly drained. Temporary seasonal high water table above slowly or moderately slowly permeable substratum. Mostly cleared and used for fruit and vegetable crops.	Slight to moderate limitations for farming in areas with high water table.	Severe limitations for farming due to seasonal high water table.
21	Odessa-Churchville Association	Nearly level. Deep, somewhat poorly drained. Seasonal high water table, above slowly permeable substratum. Mostly cleared and used for hay and grain crops.	Severe limitations due to seasonal high water table	Severe limitations due to seasonal high water table
22	Rhinebeck-Claverack	Gently sloping. Seasonal high water table. Small area, northern Yates	Slight limitations to farming due to seasonal wetness and slow permeability.	Limitations to development due to seasonal wetness and slow permeability.
23	Canandaigua-Niagara Association	Nearly level. Deep, very poorly drained to somewhat poorly drained. Susceptible to ponding. Prolonged seasonal high water table. Mostly idle or wooded or used for hay and grain crops.	Farming limited by prolonged wetness.	Development limited by prolonged wetness.
24	Odessa-Lakemont Association	Nearly level. Seasonal high water table over slowly permeable substratum. Some soils subject to ponding. Mostly cleared for hay and grain crops. Located in southeastern Ridgeway, eastern Shelby	Seasonal high water table, slow permeability and susceptibility to ponding severely limit farm uses.	Seasonal high water table, slow permeability and susceptibility to ponding severely limit development uses.
25	Rhinebeck-Madalin Association	Nearly level. Deep, somewhat poorly drained to very poorly drained. Located in northern Yates.	Moderate to severe limitations for farming due to seasonal high water table, slowly permeable subsoil, and some ponding.	Limitations for development due to seasonal high water table, slowly permeable subsoil, and some ponding.
26	Lakmont-Madalin-Barre	Deep, poorly drained and very poorly drained. Swampy lake plains. Located in Shelby, along Fish Creek and in western portion.	Limitations to farming due to seasonal high water table, at or near the surface in certain	Limitations to development due to seasonal high water table, at or near the surface

Table 2-1 (continued)

	Association		areas.	in certain areas.
27	Howard Association	Deep, well drained to somewhat excessively drained. In rolling, gravely kettle and kame areas, generally near swamps and bogs. Some gravel pits and some very poorly drained soils.	Potential for farming in small, less sloping areas. Moderate limitations to farming due to slope and erosion hazard.	Moderate limitations to development due to slope
28	Howard-Bombay Association	Deep, somewhat excessively drained to moderately well drained. Temporary seasonal high water table. Located in Ridgeway.	Slight to moderate limitations to farming due to high water table.	Slight to severe limitations to development due to high water table.
29	Alton -Phelps Association	Deep, somewhat excessively drained to moderately well drained. Gently sloping. Several gravel pits. Developed along Ridge Road. Phelps soils have temporary high water table in spring and during other wet periods.	High water table presents slight to moderate limitations to farming. Potential for fruit and vegetable crops.	In Phelps soils, temporary high water table in spring and during other wet periods presents severe limitations to development. Alton soils present slight limitations for development.
30	Teel-Wayland Association	Located along creek beds. Nearly level. Seasonal high water table, susceptible to flooding.	Naturally fertile soils. However, farming is limited due to flooding.	Severe limitations to development due to flooding
31	Palms-Carlisle Association	Deep, very poorly drained organic soils in swamps and bogs. Cleared and drained areas are used mainly for vegetables.	Moderate to severe limitations due to prolonged seasonal high water table.	Severe limitations due to prolonged seasonal high water table.
32	Fluvaquents and Humaqueps	Wet, periodically flooded areas where vegetation is mainly grasses, cattails, rushes and other water-tolerant plants.		