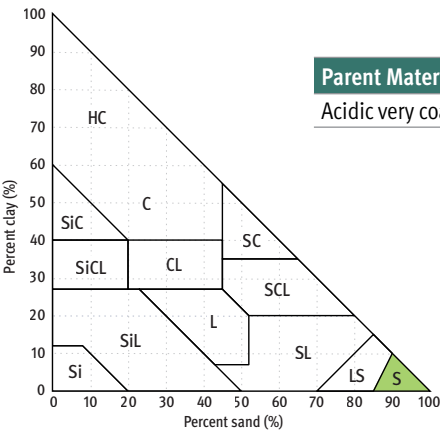


Uplands (UPD)

ORTHIC HUMO-FERRIC PODZOL
Taxonomic Subgroup Classification

Ontario Soil Series
DESCRIPTION AND INTERPRETATION

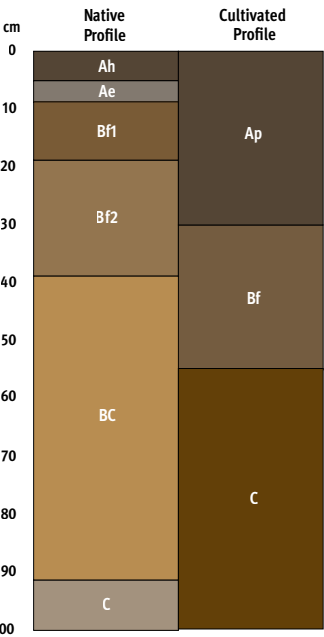


Parent Material
Acidic very coarse glaciomarine

Soil Properties

Drainage	Permeability	Available Moisture	Runoff
Very Rapid	Very Slow	Very Low	Very Fast
Rapid	Slow	Low	Fast
Well	Moderate	Moderate	Moderate
Moderately Well	Rapid	High	Slow
Imperfect	Very Rapid	Very High	Very Slow
Poor	—	—	—
Very Poor	—	—	—

Soil Profile



Management Challenges

Land Development Requirements		
Stone Removal	Low	Low
Surface Drainage	Low	Low
Tile Drainage	Low	Low
Soil Fertility	High	High
Irrigation	High	High

Tile Drainage Risks		
Bank Erosion	Low	Low
Unearthing of Coarse Fragments	Low	Low
Physical Clogging with Sediment	Moderate	Moderate
Iron Clogging	Moderate	Moderate

Land Management Risks		
Compaction	Low	Low
Loss of Organic Matter	Moderate	Moderate
Acidification	Moderate	Moderate
Water Erosion Potential	Low	Low
Wind Erosion Potential	Moderate	Moderate
Tillage Erosion Potential	Moderate	Moderate

Example Landscape



CANADA LAND INVENTORY
RATING FOR AGRICULTURE

4

Find more information on
CLI and soil capability ratings at
[Soil Capability for Agriculture
in Ontario.](#)



Uplands (UPD)

Ontario Soil Series

DESCRIPTION AND INTERPRETATION

ORTHIC HUMO-FERRIC PODZOL

Taxonomic Subgroup Classification

Physical Analyses

Soil Layers	Horizon	Texture Class ¹	Coarse Fragments by Volume (%)	Sand Fractions (%)					Sand (%)	Silt (%)	Clay (%)	Bulk Density (g/cm ³)
				Very Coarse	Coarse	Medium	Fine	Very Fine				
Surface	Ap	SL	0	0	9	40	12	4	65	25	10	1.42
Subsurface	Bf	SL	0	0	8	27	8	5	48	48	4	1.35
Parent Material	C	S	0	0	13	63	11	3	90	8	2	1.51

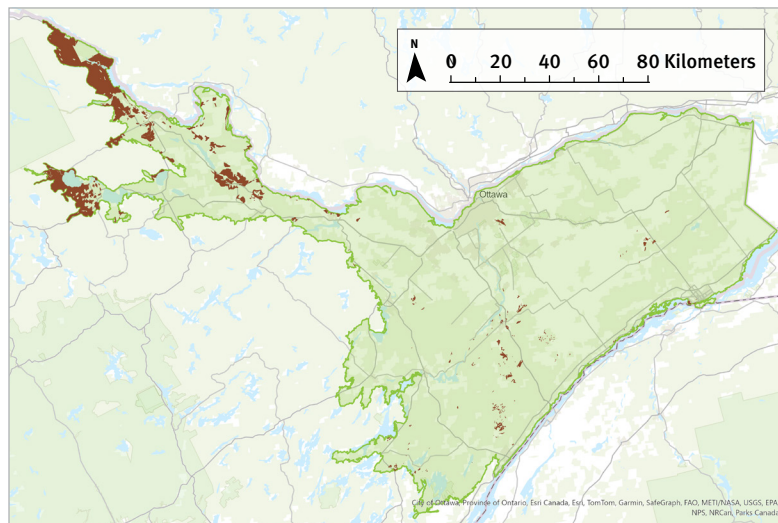
¹ Texture Class: SL = Sandy Loam, S = Sandy

Chemical Analyses

Soil Layers	Horizon	Horizon Thickness (cm)	pH (H ₂ O)	SOM (%)	CEC (meq/100 g)	Base Saturation (%)	CaCO ₃ (%)
Surface	Ap	30	6.4	3.3	8	86	0.2
Subsurface	Bf	25	6.3	1.6	4	83	0.2
Parent Material	C	50	6.4	0.6	2	86	0.1

Legend: SOM = Soil Organic Matter; CEC = Cation Exchange Capacity; CaCO₃ = Calcium Carbonate

Geographic Distribution



Map outlining the Soil Region (light green shading) and geographic distribution of the soil series (solid brown).

This factsheet is intended for informational purposes only. Producers are advised to consult their own certified crop advisor or other production specialist.

For more information on the soil profile series, refer to the [Ontario Soils GeoHub](#).



Soil Correlation

Soil Family	Uplands
Similar Series (province wide)	N/A
Soil Region	Ottawa
Catena Members (Drainage)	Uplands (R), Carlsbad (W), Buckham Bay (W), Rubicon (I), Ramsayville (I), Borthwick (VP)
Areal Extent	86,004 ha (212,520 acres)

Agricultural Production

Uplands soils are marginal agricultural soils in Ontario. They are rapidly drained and have low natural fertility due to the sandy materials on which they have developed. Based on crop information from 2021 to 2024, areas mapped as Uplands soils were predominantly in native vegetation (79%), pasture and/or forage (8%), with small areas in corn and soybeans (3%).

Ontario

