



Troy Township

40.37600, -83.03300 · your drawn plot · area 0.1 mi² (22.5 ha) · Ohio, United States

Northern hemisphere

Saved data · Sep 20, 2026

1. Land profile

Fit column: Maize (corn)

FACTOR	VALUE	BAND	FIT FOR MAIZE (CORN)	DETAILS
Land cover	Cropland 59%	Mixed cover	n/a	See section ↓
Elevation	945 ft, relief 26 ft	Moderate	n/a	Geography and site map ↓
Topsoil organic matter	3.1% · USDA 2%	Good	n/a	See section ↓
Sand	15% · USDA 22%	Moderate	Marginal	See section ↓ Crops that suit this ↓
Soil pH	6.3 · USDA 6.4	Neutral	Good	See section ↓ Crops that suit this ↓
Slope	2.4% mean	Gentle	n/a	Soil and terrain ↓
Summer heat	82 °F	Warm	Good	See section ↓ Crops that suit this ↓
Hardiness zone	6a	Cold winters	Good	See section ↓ Crops that suit this ↓
Rain Dry under 16 in, moderate to 31 in, ample to 51 in, very wet above. Average of 1991 to 2020.	41 in	Ample	Good	See section ↓ Crops that suit this ↓
Humidity (warm season)	70%	Humid	n/a	See section ↓
Frost-free season	185 days	Moderate	Good	See section ↓ Crops that suit this ↓

FACTOR	VALUE	BAND	FIT FOR MAIZE (CORN)	DETAILS
Growing degree days	1,752 (Winkler III)	Base 10 °C, Apr–Oct	Good	See section ↓ Crops that suit this ↓
Late-spring frost Share of years with a hard frost (−2 °C or lower) after 1 April, 1991 to 2020. High is 30% or more, medium 10% or more.	80% of years	High	Poor	See section ↓ Crops that suit this ↓
Extreme heat days (35 °C or more)	0.4 per year	Low	Good	Climate ↓ Crops that suit this ↓
Proximity to water	Water body, 0.7 km	High	n/a	Water ↓
Disease pressure (leaf wetness)	535 h	Medium	Marginal	Pest and disease ↓ Crops that suit this ↓
Hazards	Late spring frost, River flooding +1 more	High	n/a	Natural hazards ↓
Crop fit	Maize (corn) 82	Strong fit	n/a	Crop fit ↓
Livestock fit	Beef cattle, temperate breeds 86	Strong fit	n/a	Livestock fit ↓

2. Geography and site map

IN PLAIN WORDS

This site is near Troy Township, Ohio, United States, about 945 ft above sea level. The analysis covers 0.1 mi², the area you drew.

Land cover: cropland 58.8%, grassland 23.9%. Farming is common here.

Water: Olentangy River is 1.1 mi away, a lake 0.4 mi; access rated high. Being beside water does not give pumping rights, so check permits.

Elevation: almost flat, 932 ft to 958 ft. Higher ground is cooler, and frost settles in low spots.

Slope: gentle, 2.4% on average, with 0% steeper than 15% (harder for machinery); slopes face SW, the sunnier side.

Slope %: Meters of rise over 100 meters of distance.

LOCATION

Place	Troy Township, Delaware County, Ohio
Coordinates	40.37600, -83.03300
Elevation	945 ft
Hemisphere	Northern

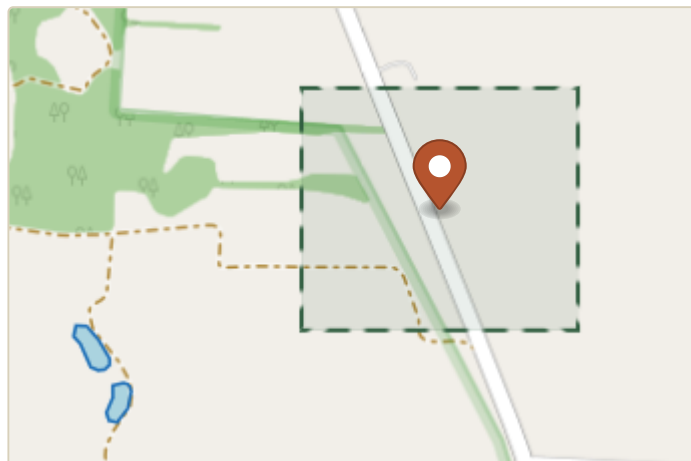
Water sources

WATER SOURCES NEARBY

Nearest river or canal	Olentangy River, 1.1 mi
Nearest lake or reservoir	unnamed, 0.4 mi
Nearest sea coast	327.5 mi
Waterways within 6.2 mi	0
Access to water	high

CLOSEST MAPPED WATER

Unnamed water	water, 0.4 mi
Delaware Reservoir	reservoir, 0.8 mi
Olentangy River	river, 1.1 mi
Whetstone Creek	river, 2.1 mi
Gleasonkamp Pond	reservoir, 2.5 mi
Greenwood Lake	lake, 4.6 mi



■ River — Canal — Lake or reservoir shore

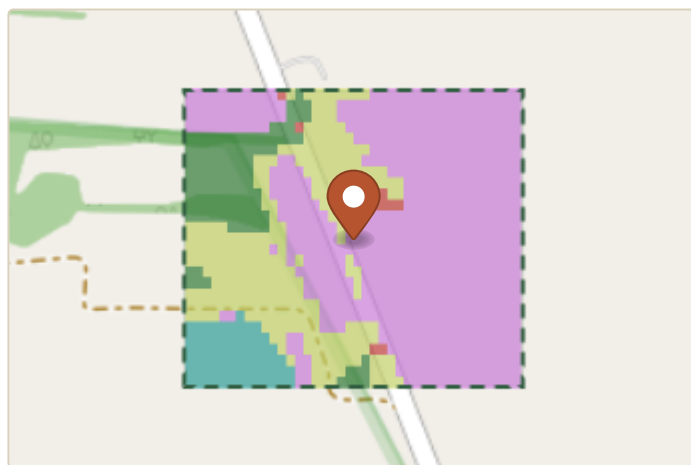
Nearest: unnamed water (0.4 mi), Delaware Reservoir (0.8 mi), Olentangy River (1.1 mi), Whetstone Creek (2.1 mi).

Land cover

LAND COVER WITHIN THE AREA

Site point: Cropland

Cropland		58.8%
Grassland		23.9%
Tree cover		10.1%
Herbaceous wetland		6.1%
Built-up		1.1%
Open water		0%



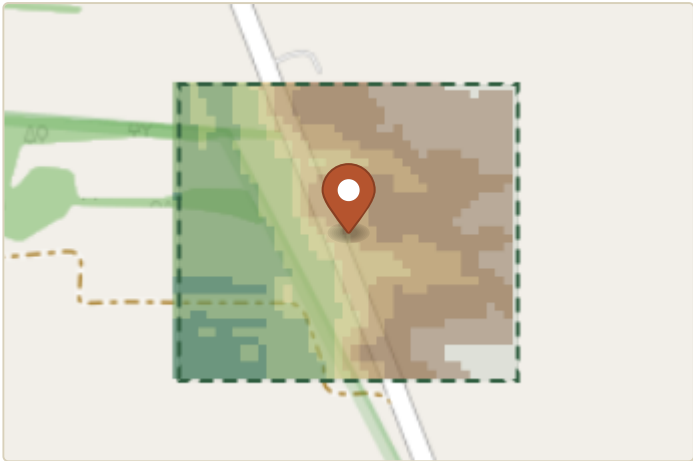
LAND COVER (ESA WORLDCOVER 2021)

■ Cropland ■ Built-up ■ Grassland ■ Tree cover
■ Wetland

Elevation

ELEVATION ACROSS THE AREA

At the site	945 ft
Lowest point	932 ft
Average	945 ft
Highest point	958 ft
Relief (highest minus lowest)	26 ft

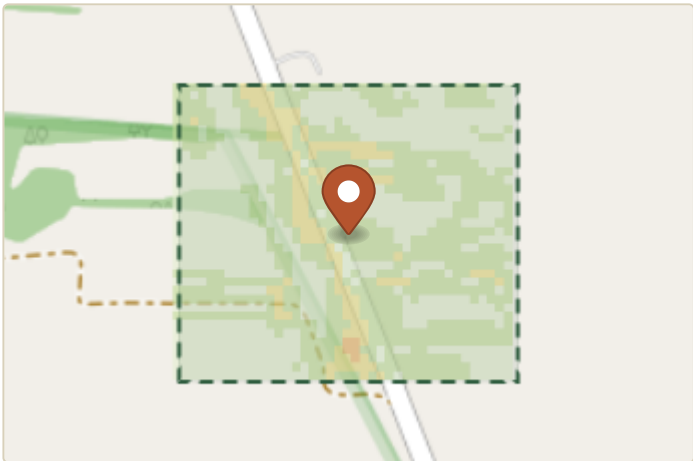


ELEVATION (METERS ABOVE SEA LEVEL)
■ 284 m ■ 286 m ■ 288 m ■ 290 m ■ 292 m
Low to high, left to right.

Slope

SLOPE ACROSS THE AREA

At the site	3.1%
Average	2.4%
Steepest tenth is above	5%
Steeper than 15%	0% of the area
Slopes mostly face	SW
Facing shares	SW 36%, W 25%, N 14%



SLOPE (HOW STEEP THE GROUND IS)
■ Flat (under 2%) ■ Gentle (2–5%)
■ Moderate (5–10%) ■ Sloping (10–15%)
■ Steep (15–25%) ■ Very steep (over 25%)
Machinery gets harder to use above about 15%.

Map data © OpenStreetMap contributors. The dashed outline is the analyzed area.

3. Soil and terrain

IN PLAIN WORDS

The topsoil is a silty clay loam, which is fertile and water-holding, but can be heavy in wet weather. Its pH of 6.3 is slightly acidic. This suits the widest range of crops. Organic matter is good at about 3.1%, which is a healthy sign for fertility and water holding.

The USDA soil survey adds a second opinion for this US land: it describes the map unit as a clay loam, with a pH of 6.4 and 2% organic matter. The two sources differ on the texture, so a lab test is worth more than either.

The land is gentle (average slope 2.4%, from 932 ft to 958 ft elevation), with 0% steeper than 15%, the point where machinery gets harder to use. Slopes mostly face SW, which is the sunnier, warmer side in this hemisphere.

pH: How acidic or alkaline the soil is. 7 is neutral, lower is acidic, higher is alkaline. It controls which crops can take up nutrients.

Organic matter: Decayed plant and animal material. It feeds crops and helps soil hold water.

Texture: The mix of sand, silt and clay. It decides how fast water drains and how many nutrients the soil holds.

Soil layers

Sand, silt and clay in each layer of the topsoil, and the topsoil figures overall, from the SoilGrids model and the USDA soil survey.

0–5 cm

SoilGrids
sand 16.3% · silt 56.7% · clay 26.9% · pH 6.3 · organic carbon 3.6%

USDA
sand 21.6% · silt 53.8% · clay 24.7% · pH 6.4 · organic carbon 1.29%

5–15 cm

SoilGrids
sand 16.4% · silt 56.6% · clay 27% · pH 6.3 · organic carbon 2%

USDA
sand 21.6% · silt 53.8% · clay 24.7% · pH 6.4 · organic carbon 1.29%

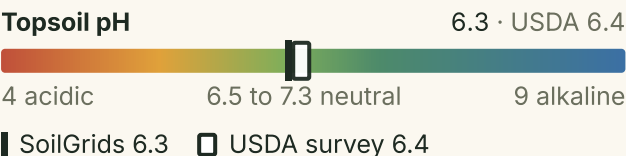
15–30 cm

SoilGrids
sand 14.3% · silt 51.3% · clay 34.3% · pH 6.2 · organic carbon 1.12%

USDA
sand 21.3% · silt 46.1% · clay 32.6% · pH 6.3 · organic carbon 1.01%

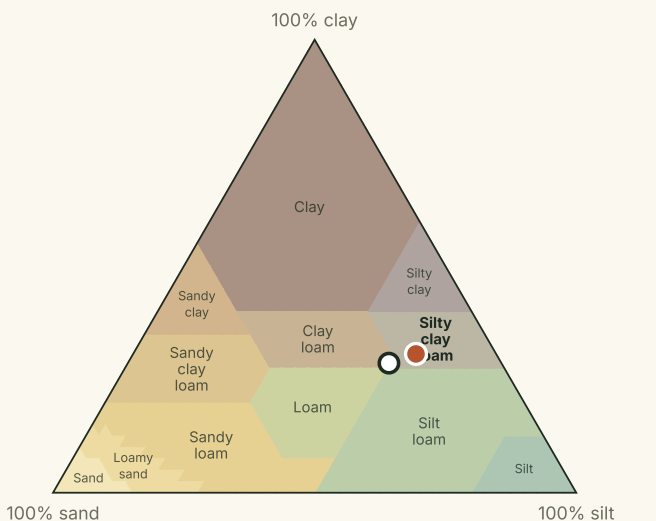
■ Sand ■ Silt ■ Clay

Topsoil pH



Texture triangle Silty clay loam

Where the topsoil sits between sand, silt and clay. Each shaded region is a soil class.



● **SoilGrids: Silty clay loam** · 15.3% sand, 54% silt, 30.6% clay

○ **USDA survey: Clay loam** · 21.5% sand, 49.9% silt, 28.6% clay

► [Learn more about soil types](#)

TOPSOIL, 0–30 CM

	SOILGRIDS	USDA SURVEY
Organic matter	3.1%	2%
Texture	Silty clay loam	Clay loam
Sand	15.3%	21.5%
Silt	54%	49.9%
Clay	30.6%	28.6%
pH	6.3	6.4
Cation exchange capacity	17.9 cmol/kg	19.3 cmol/kg
Coarse fragments	3.9%	3.4%

One 250 m cell at the site point. SoilGrids is limited to 5 calls per minute, so the surrounding radius is not sampled here. A lab test is essential before buying.

TOPSOIL: SOILGRIDS MODEL VS USDA SOIL SURVEY

SoilGrids is a 250 m computer model that works anywhere. The USDA soil survey was mapped in the field by soil scientists, and the values here are for the map unit at your site, 0–30 cm.

MEASURE	SOILGRIDS	USDA SURVEY	
Texture class	Silty clay loam	Clay loam	Differs
Sand	15.3%	21.5%	Close
Silt	54%	49.9%	Close
Clay	30.6%	28.6%	Close
pH	6.3	6.4	Close
Organic matter	3.1%	2%	Differs
Cation exchange capacity	17.9 cmol/kg	19.3 cmol/kg	Close
Coarse fragments	3.9%	3.4%	Close

WHAT THE SOIL SURVEY ADDS

Map unit	Glynwood silt loam, ground moraine, 2 to 6 percent slopes (Gwg1B1)
Survey area	Delaware County, Ohio
Main soils	Glynwood 85%, Blount 9%, Pewamo 6%
Land capability class	2: some limits for crops
Farmland class	All areas are prime farmland
Natural drainage	Moderately well drained
Hydrologic group	D: very slow infiltration, high runoff
Water the top meter can hold	5.5 in
Flooding	None
Depth to bedrock	not found in the survey depth
Seasonal water table	18 in

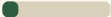
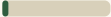
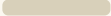
The two sources are close on 6 of 8 measures. On texture, the model says silty clay loam and the survey says clay loam. Where they differ, the survey is usually the better guide in the US, and a lab test settles it.

Average 3.7%
slope of
the map
unit

Each value describes the whole mapped soil area, which usually holds several soils. It is not a measurement at one spot.

SOIL MAP UNITS IN YOUR AREA

6 soil map units meet your area. All are shown. SoilGrids reads one 250 m cell and cannot show this spread.

SOIL MAP UNIT		SHARE OF AREA	TOPSOIL TEXTURE	LAND CLASS	DRAINAGE
Glynwood silt loam, ground moraine, 2 to 6 percent slopes	 32% At your site	32%	Clay loam	2	Moderately well drained
Millgrove silt loam, 0 to 2 percent slopes	 31%	31%	Silt loam	2	Very poorly drained
Blount silt loam, ground moraine, 0 to 2 percent slopes	 30%	30%	Silt loam	2	Somewhat poorly drained
Pewamo silty clay loam, 0 to 1 percent slopes	 5%	5%	Silty clay loam	2	Very poorly drained
Gallman silt loam, till substratum, 2 to 6 percent slopes	 2%	2%	Silt loam	2	Well drained
Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	 <1%	<1%	Clay loam	3	Moderately well drained

Land class is the USDA non-irrigated capability class, from 1 (few limits for crops) to 8 (no crop use).

TERRAIN WITHIN THE AREA

Elevation (min / mean / max)	932 ft / 945 ft / 958 ft
Slope at the site	3.1%
Mean slope / steepest 10%	2.4% / 5%
Area steeper than 15%	0%
Dominant slope direction	SW

LAND SHAPE

HEIGHT, WEST TO EAST

HEIGHT, SOUTH TO NORTH

958 ft

932 ft

West

East

958 ft

932 ft

South

North

The line is the average height at each position, and the shaded band is the lowest to the highest ground there. Both profiles use the same height scale, so they can be compared. The vertical scale is stretched to make the shape visible.

HOW STEEP THE GROUND IS



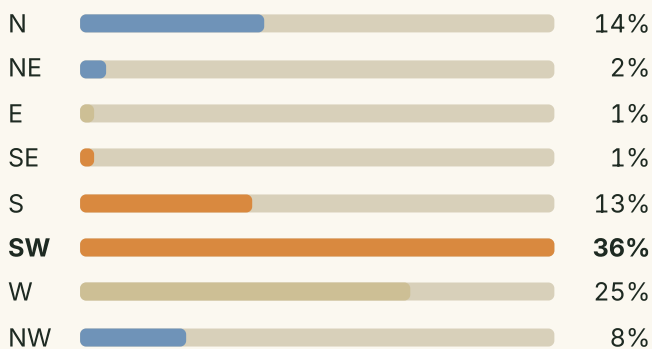
Flat (under 3%) 70% Gentle (3–8%) 29% Moderate (8–15%) 1% Steep (15–25%) 0%
Very steep (over 25%) 0%

The largest share of the ground is **flat** (under 3%): easy for any machinery. The class limits are common rules of thumb for machinery and erosion, not a legal or engineering standard.

WHICH WAY THE SLOPING GROUND FACES

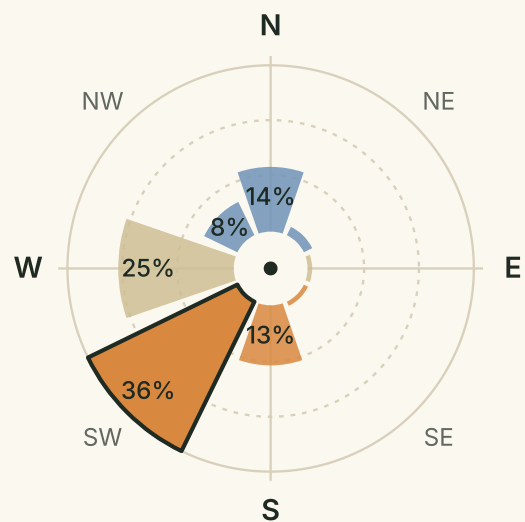


Sunnier side 50% East and west 26%
Shadier side 24%



Share of the sloping ground (steeper than 3%). In the northern hemisphere the sun sits in the south, so slopes facing south are warmer and dry out sooner, while slopes facing north are cooler and hold frost longer.

SLOPE DIRECTIONS ON A COMPASS



Sunnier side East and west **Shadier side**
 Longer petals mean more of the sloping ground faces that way.

[Which crops suit this soil](#) ↓ See section 10 for every crop, factor by factor.

IN PLAIN WORDS

Winters are cold: in a typical year the coldest night is about -5 °F, with frost on about 106 days. Summers are warm, with the hottest month averaging a daytime high of 82 °F and about 22 days a year above 86 °F.

You get plenty of rain, about 41.4 in a year, and it is heaviest in April. Summer rain roughly covers what plants use. The frost-free growing season lasts about 185 days (roughly 6 months). The heat total is warm.

Hardiness zone: A scale of how cold winters get. A higher number means milder winters.

Growing degree days: A running total of useful heat. More means crops grow and ripen faster.

HARDINESS ZONE

6a

Mean yearly minimum
-5.3 °F; coldest in 30
years -23.6 °F

GROWING DEGREE
DAYS

1,752

Base 10 °C, Apr–Oct.
Winkler class III;
Huglin 2,134

FROST-FREE SEASON

185 d

Apr 17 to Oct 22 (8 in
10 years: 171–201 d)

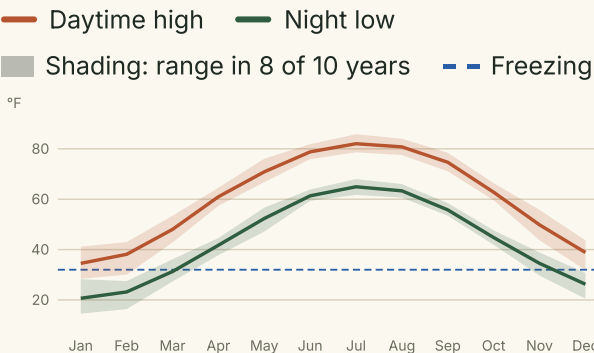
WINTER CHILL

1,281 h

Hours between 0 and
7.2 °C (1,084–1,490 in
8 of 10 winters)

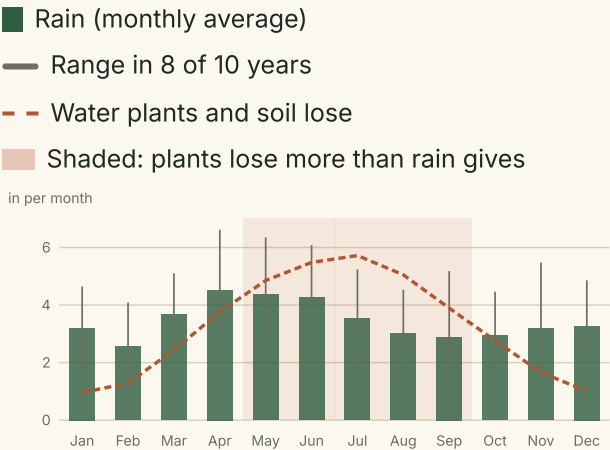
Temperature by month

Hottest month: July, high 82.0 °F and low 64.9 °F.
Coldest: January, high 34.5 °F and low 20.7 °F.



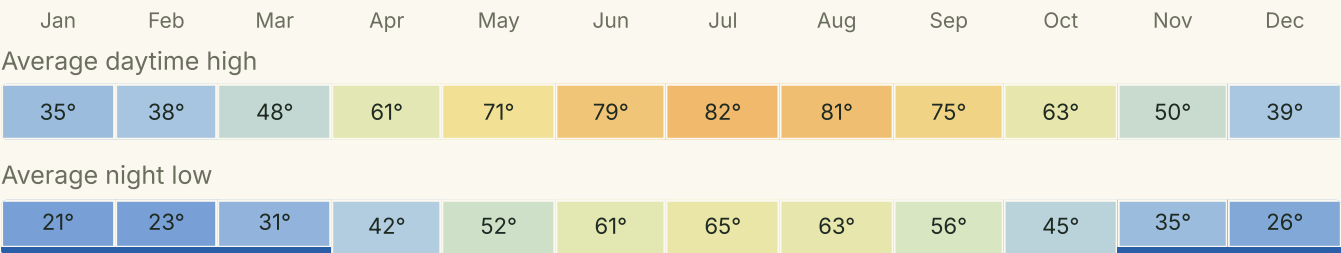
Rain and evaporation

41.4 in of rain a year (8 in 10 years between 33.7 in and 46.5 in). Wettest month April (4.5 in), driest February (2.6 in).



Seasons

The year laid out month by month (it starts in January): how warm days and nights are, and when the hot, cool and frost-free seasons fall. Hot season 2.7 months, cool season 5 months.



Blue underline: average night low below 36 °F, so frost is likely that month.

Hot season (average high above 79 °F)

Jun 13 to Sep 3

Cool season (average high below 55 °F)

Nov 2 to Apr 1

Frost-free season (typical year)

Apr 17 to Oct 22 (185 days)

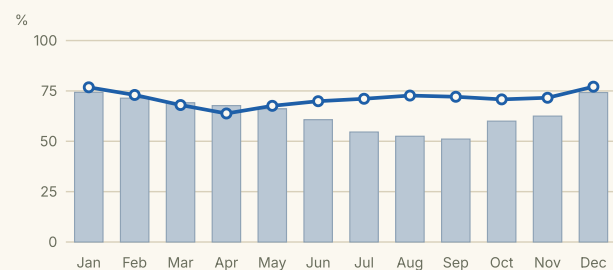
Lighter ends of the green bar show how far the first and last frost dates shift between years (8 in 10 years fall inside).

Cloud cover and humidity

Average cloud cover and relative humidity for each month. More cloud means less sun; humid air in the warm season favors plant disease. Warm-season humidity averages 70%.

■ Cloud cover, share of the sky (year average 64%)

● Relative humidity, moisture in the air (year average 71%)

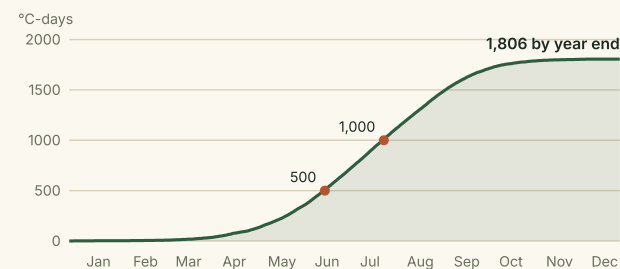


Growing degree days

Each day's heat above 10 °C, added up through the year: 1,806 °C-days, 1,752 of them in the Apr–Oct growing season. More means crops grow and ripen faster.

— Running total of useful heat (average of 30 years)

○ Milestones: 500 and 1,000 °C-days



Frost and heat

Years with a hard frost after 1 April

80%

Frost days per year

105.7



Days at or above 86 °F

21.6

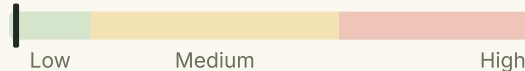
Data grid

40.5, -83

Days at or above 95 °F per year

0.4

Reanalysis is a 25 km grid and smooths local extremes. Frost pockets and hot spots on a single field can differ.



[Which crops suit this climate](#) ↓ See section 10 for every crop, factor by factor.

5. Water

IN PLAIN WORDS

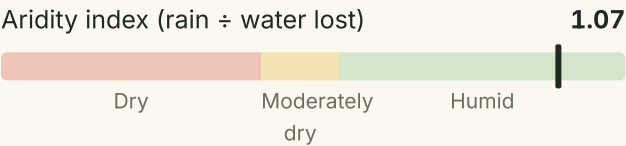
Rainfall is high (41.4 in a year), but what matters is the balance with evaporation. Here that balance is close to even (aridity index 1.07). Rain alone is often enough for many crops.

Olentangy River is 1.1 mi away, and the sea is 327.5 mi away. Access to water is rated high. Nearby water can make irrigation easier, but the legal right to use it must be checked.

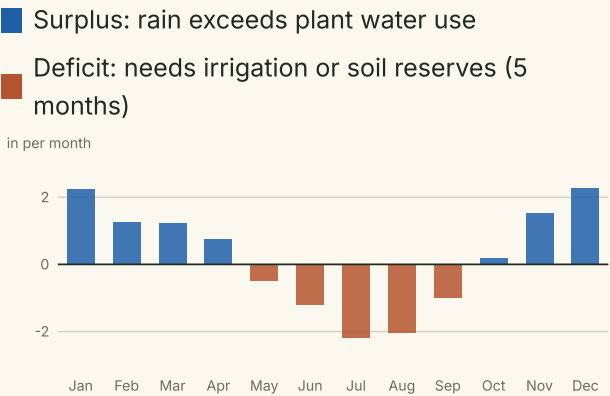
Aridity index: Yearly rain divided by the water lost to evaporation and plant use. Below 0.5 is dry, above 0.65 is humid.

RAINFALL AND DRYNESS

Annual rain 41.4 in
Warm-season water balance -5.5 in
Longest dry spell (yearly average) 14 days



MONTH BY MONTH: RAIN MINUS WATER LOST



A negative water balance in the warm season means crops usually need irrigation or stored soil water.

PROXIMITY TO WATER HIGH

Nearest mapped river, canal or lake within 6.2 mi, measured from the area's center. High is 2 km or less, Medium up to 10 km, otherwise Low (indicative bands). See them on the map above.

Unnamed water	water	0.4 mi
Delaware Reservoir	reservoir	0.8 mi
Olentangy River	river	1.1 mi
Whetstone Creek	river	2.1 mi
Gleasonkamp Pond	reservoir	2.5 mi
Greenwood Lake	lake	4.6 mi
Alum Creek	river	4.8 mi
Unnamed lake	lake	5.7 mi
Coast	sea	327.5 mi

0 mapped rivers and canals cross the analyzed area. Satellite moisture maps are not included in this report, so how wet the land is right now is not shown.

Which crops suit this rainfall ↓ See section 10 for every crop, factor by factor.

6. Pest and disease

Weather-based indicator, not observed presence

IN PLAIN WORDS

Weather here gives medium disease pressure: about 535 hours per warm season are humid and mild enough for fungi to thrive. Warm, humid spells happen often enough that fungal diseases will need watching in wet years. This is an indicator from the weather, not a count of actual pests or disease on the ground.

Leaf wetness: Hours when the air is humid and mild enough for leaves to stay damp, which is when fungal diseases spread.

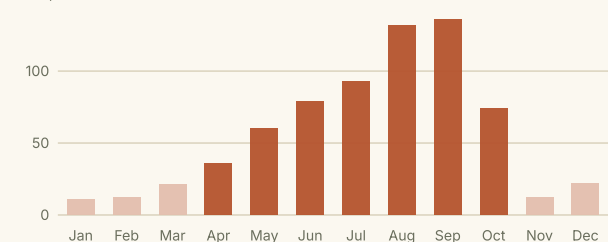
Leaf-wetness hours by month

Hours per month with relative humidity at 90% or above and 10 to 30 °C, a general proxy for fungal disease pressure.

■ Warm season (Apr–Oct), counted in the total

■ Other months

hours per month



DISEASE PRESSURE

535 h

Medium



Per warm season (Apr–Oct). Bands: under 300 h Low, under 800 h Medium, otherwise High (indicative). Crop-specific models (mildews, scab, blight) and pest records are not included in this report.

[Which crops cope with this disease pressure ↓](#) See section 10 for every crop, factor by factor.

7. Natural hazards

Indicative ratings from our own bands

IN PLAIN WORDS

The main concern is late spring frost. Worth watching: river flooding, soil erosion. These ratings are indicators to prompt questions, not official hazard maps.

River flooding

Medium



Typical yearly peak flow is 14.6× the median flow (2.3 vs 0.16 m³/s)

Largest daily flow in 30 years: 5.4 m³/s. This is a river-model indicator; check official flood-zone maps before buying.

Source: GloFAS via Open-Meteo Flood API, 1991–2020

Drought and dryness

Low



Aridity index 1.07 (annual rain ÷ evapotranspiration)

Warm-season water balance -139 mm; longest dry spell about 14 days per year; annual rain 856–1182 mm in 8 of 10 years.

Source: ERA5 via Open-Meteo, 1991–2020

Extreme heat

Low



0.4 days per year at or above 35 °C

21.6 days per year at or above 30 °C. Reanalysis smooths local extremes, so real peaks are usually higher.

Source: ERA5 via Open-Meteo, 1991–2020

Late spring frost

High



80% of years with a hard frost (–2 °C or lower) after 1 April

105.7 frost days per year on average. Local cold-air pockets are not resolved at 25 km.

Source: ERA5 via Open-Meteo, 1991–2020

Strong wind

Low



0 days per year with daily maximum wind at or above 50 km/h

Strongest daily maximum in 30 years: 47 km/h. Reanalysis underestimates gusts.

Source: ERA5 via Open-Meteo, 1991–2020

Earthquakes

Low



1 earthquakes of magnitude 4.5+ within 200 km since 1976

0 of magnitude 5+ within 100 km. Largest within 200 km: magnitude 4.5 (1986).

Source: USGS Earthquake Catalog

Soil erosion

Medium



Rain erosivity moderate, gentle ground, silty, erodible topsoil

Modified Fournier Index 90 (moderate). Mean slope 2.4%, 0% of the area steeper than 15%. Topsoil silt 54%, organic matter 3.1%. Bare or tilled slopes erode much faster than grass or trees.

Source: Derived from ERA5 rain, elevation tiles and SoilGrids (indicative bands)

Landslide

Not assessed

Not assessed

Worth checking locally: ask the geological survey or the local authority about past slope failures.

Wildfire

Not assessed

Not assessed

Hail

Not assessed

Not assessed

Worth asking local growers and insurers about hail history.

8. Crop fit

Optional · indicative thresholds, pending agronomist review

FIT CARD: THIS LAND VS MAIZE (CORN)

Hardiness zone 6a Good

Maize (corn) prefers 3a to 12a

Hottest-month mean high 82 °F Good

Maize (corn) prefers 75 °F to 90 °F

Growing degree days (base 10 °C, warm season)

1,752 Good

Maize (corn) prefers 1,500 to 3,200

Frost-free season (days) 185 days Good

Maize (corn) prefers 130 days or more

Annual rainfall 41 in Good

Maize (corn) prefers 20 in to 43 in

Winter chill (hours between 0 and 7.2 °C)

1,281 h Good

Maize (corn) prefers any

Late-spring frost (share of years) 80% Poor

Maize (corn) prefers up to 25%

Days at or above 35 °C per year

0.4 days Good

Maize (corn) prefers up to 10 days

OVERALL

82 / 100

Strong fit

Confidence: medium

INSIGHTS AND MITIGATIONS

Strong on hardiness, summer heat, growing degree days, frost-free season, rainfall, winter chill, extreme-heat days, soil ph.

Late frost: land is 80%, above the ideal (up to 25%). Use frost protection (fans or sprinklers) or later-blooming cultivars, and avoid low-lying frost pockets.

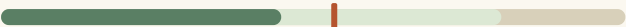
Disease pressure: land is 535 h, above the ideal (up to 450 h). Choose disease-resistant cultivars, open the canopy, and plan a spray program or organic alternatives.

Soil sand: land is 15%, below the ideal (20% to 65%). Add organic matter, expect slower drainage, and consider raised beds.

Yield depends heavily on summer water; irrigation is common where summers are dry.

Leaf-wetness hours (warm season)

535 h Marginal



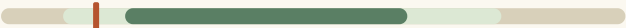
Maize (corn) prefers up to 450 h

Topsoil pH 6.3 Good



Maize (corn) prefers 6 to 7.2

Topsoil sand content 15% Marginal



Maize (corn) prefers 20% to 65%

■ Ideal range ■ Tolerable range — This land

Each row uses a fixed scale (for example hardiness runs from zone 2 to 12).

What grows well on this land · all 83 crops ranked, and the best in each category

BEST IN EACH CATEGORY

Cereals	Rice	82
Legumes	Soybeans	77
Oilseeds and industrial	Sunflower	77
Vegetables	Eggplant	77
Tree fruit	Pears	86
Berries	Blackberries	82
Vines	Wine grapes	82
Citrus	Lemons	40
Tropical fruit	Avocado	40
Nuts	Hazelnuts	82
Herbs and spices	Mint	77
Fodder and pasture	Ryegrass pasture	86

TOP 15 OVERALL

Ryegrass pasture		86
Clover pasture		86
Pears		86
Apples		86
Plums		86
Rice		82
Hazelnuts		82
Maize (corn)		82
Walnuts		82
Chestnuts		82
Wine grapes		82
Blackberries		82
Wheat (winter)		82
Mint		77
Eggplant		77

B marks a hard blocker. Priorities: none set · rain-fed.

ALL 83 CROPS, BEST FIT FIRST

Ryegrass pasture 86	Clover pasture 86	Pears 86	Apples 86	Plums 86	Rice 82	Hazelnuts 82
Maize (corn) 82	Walnuts 82	Chestnuts 82	Wine grapes 82	Blackberries 82	Wheat (winter) 82	
Mint 77	Eggplant 77	Peppers 77	Sweet corn 77	Soybeans 77	Alfalfa (lucerne) 77	Oats 77
Pumpkins 77	Zucchini and squash 77	Tomatoes 77	Raspberries 77	Basil 77	Cucumbers 77	
Common beans 77	Strawberries 77	Green beans 77	Sunflower 77	Hemp 77	Barley 77	Sorghum 77

Onions 77	Rapeseed (canola) 77	Currants 77	Hops 77	Thyme 77	Lavender 77	Table grapes 77
Peanuts 73	Rye 73	Chickpeas 73	Saffron 73	Faba beans 73	Sweet potatoes 68	Asparagus 68
Melons 68	Lentils 68	Sugar beet 68	Cotton 68	Cabbage 68	Field peas 68	Garlic 68
Beetroot 68	Rosemary 68	Persimmons 68	Potatoes 68	Broccoli 64	Cauliflower 64	Peas (garden) 64
Carrots 64	Pecans 64	Lettuce 59	Spinach 59	Artichokes 59	Figs 59	Pomegranates 59
Cherries 40	Apricots 40	Peaches and nectarines 40	Blueberries 40	Kiwifruit 40	Lemons 40	Mandarins 40
Oranges 40	Avocado 40	Grapefruit 40	Bananas 40	Mango 40	Almonds 40	Olives 40
Pistachios 27						

9. Livestock fit

Optional · indicative ranges, pending livestock specialist review

PASTURE AND CARRYING CAPACITY

Low

Moderate

Good

High

Very productive pasture. Expect roughly 1 to 5 acres for each cow with calf, and hay or silage is likely to be possible.

Indicative only. Local agricultural extension services publish real stocking rates for your soil and rainfall.

High pasture potential

WHAT DRIVES IT

Water for grass (dryness)

Growing season length

Heat for growth

Soil pH

1.07

185 days

1,752 °C-days

6.3

HOW EACH TYPE OF LIVESTOCK FITS THIS LAND		Pick one or more for the full detail
ANIMALS	SCORE	MAIN LIMITS
Meat goats Goats · Boer, Kiko, Spanish	94 Strong fit	damp and disease
Ducks and geese Poultry · Pekin, Khaki Campbell, Muscovy, Embden geese	93 Strong fit	heat stress
Sheep, wool and lamb breeds Sheep · Merino, Rambouillet, Suffolk, Dorset, Corriedale	90 Strong fit	damp and disease, heat stress
Sheep, hair breeds (heat-tolerant) Sheep · Katahdin, Dorper, St. Croix, Barbados Blackbelly	88 Strong fit	grazing season, damp and disease
Dairy goats Goats · Nubian, Saanen, Alpine, LaMancha	88 Strong fit	heat stress, damp and disease

ANIMALS	SCORE	MAIN LIMITS
Pigs, outdoor or pasture-raised Pigs · Berkshire, Duroc, Tamworth, Large Black, Hampshire	87 Strong fit	heat stress, damp and disease
Beef cattle, temperate breeds Beef cattle · Angus, Hereford, Charolais, Limousin	86 Strong fit	heat stress, grazing season
Beef cattle, heat-tolerant breeds Beef cattle · Brahman, Brangus, Santa Gertrudis, Nellore	86 Strong fit	grazing season, winter cold
Dairy cattle, heat-adapted or crossbred Dairy cattle · Jersey, Zebu crosses, Girolando, Sahiwal crosses	86 Strong fit	heat stress, grazing season
Laying hens, free-range Poultry · Rhode Island Red, Leghorn, Australorp, Sussex, ISA Brown	79 Workable with changes	heat stress, damp and disease
Turkeys Poultry · Broad Breasted, Bourbon Red, Narragansett	79 Workable with changes	heat stress, damp and disease
Dairy cattle, Holstein-type Dairy cattle · Holstein, Friesian, Brown Swiss	40 Poor fit	heat stress, grazing season
Meat chickens, pasture-raised Poultry · Cornish Cross, Freedom Ranger, Red Ranger	40 Poor fit	heat stress, damp and disease

FIT CARD: THIS LAND VS BEEF CATTLE, TEMPERATE BREEDS

Do best where summers are mild. Heat and humidity cut growth and fertility.

Summer heat-stress index (THI)

78

Marginal

Prefers up to 74

Days at or above 35 °C per year

0.4 days

Good

Prefers up to 10 days

Distance to mapped water

0.4 mi

Good

Prefers up to 1.2 mi

Annual rainfall

41 in

Good

OVERALL

86 / 100

Strong fit

Prefers 28 in to 63 in

Aridity index (rain ÷ water lost) 1.07 Good

Prefers 0.65 or more

Frost-free season (days) 185 days Marginal

Prefers 200 days or more

Hardiness zone (winter cold) 6a Good

Prefers 3a to 9b

Growing degree days (pasture heat)

1,752 Good

Prefers 1,200 to 3,500

Topsoil pH 6.3 Good

Prefers 5.8 to 7.2

Topsoil sand content 15% Good

Prefers 15% to 55%

Mean slope 2.4% Good

Prefers up to 10%

Leaf-wetness hours (warm season)

535 h Marginal

Prefers up to 300 h

■ Ideal range ■ Tolerable range — This land

WHAT TO PLAN FOR

Heat stress: land is 78, above the ideal (up to 74). Provide shade and cool water, work cattle early in the day, or choose a heat-tolerant breed.

Grazing season: land is 185 days, below the ideal (200 days or more). Budget stored feed (hay or silage) for the months when grass stops, and plan winter shelter and windbreaks.

Damp and disease: land is 535 h, above the ideal (up to 300 h). Damp, humid conditions favor foot rot, liver fluke and other parasites, so plan drainage, rotational grazing and a herd-health program.

Also plan for: Shade and clean drinking water close to grazing, a handling yard, and winter feed where pasture stops.

WATER, FEED AND HEAT FOR A BEEF HERD

Drinking water per animal 11 gal to 18 gal a day

For 100 animals 1,057 gal to 1,849 gal a day

Nearest mapped water 0.4 mi

Heat-stress index (THI) 78, alert: some stress

Frost-free season 185 days

Grass stops for cold about 180 days

Grass stops for dryness rarely

THINGS TO NOTE ABOUT THIS LAND

Medium River flood indicator is medium: check flood history and where animals could be moved.

Rough planning figures. Animals drink more in heat, and lactating animals drink more.

Factor by factor, against every crop in the catalog

10. Which crops suit this land

For each factor, the crops whose best range includes this land's value ("ideal"), the ones that can tolerate it, and the ones it does not suit. Ranges are indicative, pending agronomist review.

Which crops suit this soil

Topsoil pH This land: 6.3

Ideal for **76** of 83 crops · tolerable for 6 · not suited to 1

Wheat (winter)	Barley	Oats	Rye	Maize (corn)	Rice	Sorghum	Soybeans	Chickpeas	Lentils
Field peas	Faba beans	Common beans	Sunflower	Rapeseed (canola)	Peanuts	Cotton	Hemp		
Hops	Tomatoes	Potatoes	Onions	Garlic	Carrots	Lettuce	Cabbage	Broccoli	Cauliflower
Peppers	Cucumbers	Zucchini and squash	Eggplant	Spinach	Peas (garden)	Green beans			
Sweet corn	Pumpkins	Beetroot	Sweet potatoes	Melons	Apples	Pears	Cherries		
Peaches and nectarines	Plums	Apricots	Figs	Pomegranates	Persimmons	Kiwifruit	Strawberries		
Raspberries	Blackberries	Currants	Wine grapes	Table grapes	Lemons	Oranges	Mandarins		
Grapefruit	Avocado	Mango	Bananas	Almonds	Walnuts	Hazelnuts	Chestnuts	Pecans	
Lavender	Basil	Rosemary	Thyme	Mint	Saffron	Clover pasture	Ryegrass pasture		

Maize (corn) ideal 6 to 7.2 **Good**

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (76)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Rice, Sorghum

Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Peanuts, Cotton, Hemp, Hops

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Beetroot, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Figs, Pomegranates, Persimmons, Kiwifruit

Berries: Strawberries, Raspberries, Blackberries, Currants

Vines: Wine grapes, Table grapes

Citrus: Lemons, Oranges, Mandarins, Grapefruit

Tropical fruit: Avocado, Mango, Bananas

TOLERABLE (6)

Oilseeds and industrial: Sugar beet

Vegetables: Asparagus, Artichokes

Tree fruit: Olives

Nuts: Pistachios

Fodder and pasture: Alfalfa (lucerne)

Nuts: Almonds, Walnuts, Hazelnuts, Chestnuts, Pecans

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron

Fodder and pasture: Clover pasture, Ryegrass pasture

► **Not suited (1)** · show the crops this land does not suit

Topsoil sand content

This land: 15%

Ideal for **21** of 83 crops · tolerable for 57 · not suited to 5

Wheat (winter) Barley Oats Rice Rapeseed (canola) Apples Pears Cherries
Peaches and nectarines Plums Apricots Olives Figs Pomegranates Persimmons Wine grapes
Table grapes Hazelnuts Pecans Clover pasture Ryegrass pasture

Maize (corn) ideal 20% to 65% **Marginal**

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (21)

Cereals: Wheat (winter), Barley, Oats, Rice
Oilseeds and industrial: Rapeseed (canola)
Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Olives, Figs, Pomegranates, Persimmons
Vines: Wine grapes, Table grapes
Nuts: Hazelnuts, Pecans
Fodder and pasture: Clover pasture, Ryegrass pasture

TOLERABLE (57)

Cereals: Rye, Maize (corn), Sorghum
Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans
Oilseeds and industrial: Sunflower, Cotton, Sugar beet, Hemp, Hops
Vegetables: Tomatoes, Potatoes, Onions, Garlic, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Artichokes, Beetroot
Tree fruit: Kiwifruit
Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants
Citrus: Lemons, Oranges, Mandarins, Grapefruit
Tropical fruit: Avocado, Mango, Bananas
Nuts: Almonds, Walnuts, Pistachios, Chestnuts
Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron
Fodder and pasture: Alfalfa (lucerne)

► **Not suited (5)** · show the crops this land does not suit

Which crops suit this climate

Hardiness zone

This land: 6a

Ideal for **65** of 83 crops · tolerable for 3 · not suited to 15

Wheat (winter) Barley Oats Rye Maize (corn) Rice Sorghum Soybeans Chickpeas Lentils
Field peas Faba beans Common beans Sunflower Rapeseed (canola) Peanuts Cotton Sugar beet
Hemp Hops Tomatoes Potatoes Onions Garlic Carrots Lettuce Cabbage Broccoli
Cauliflower Peppers Cucumbers Zucchini and squash Eggplant Spinach Peas (garden)

Green beans Sweet corn Pumpkins Asparagus Beetroot Sweet potatoes Melons Apples Pears
Cherries Peaches and nectarines Plums Apricots Blueberries Strawberries Raspberries
Blackberries Currants Wine grapes Walnuts Hazelnuts Chestnuts Lavender Basil Thyme Mint
Saffron Alfalfa (lucerne) Clover pasture Ryegrass pasture

Maize (corn) ideal 3a to 12a Good

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (65)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Rice, Sorghum

Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Peanuts, Cotton, Sugar beet, Hemp, Hops

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Asparagus, Beetroot, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Vines: Wine grapes

Nuts: Walnuts, Hazelnuts, Chestnuts

Herbs and spices: Lavender, Basil, Thyme, Mint, Saffron

Fodder and pasture: Alfalfa (lucerne), Clover pasture, Ryegrass pasture

► **Not suited (15)** · show the crops this land does not suit

Hottest-month mean high

This land: 82 °F

Ideal for **56** of 83 crops · tolerable for 22 · not suited to 5

Wheat (winter) Maize (corn) Rice Sorghum Soybeans Chickpeas Common beans Sunflower
Peanuts Cotton Hemp Tomatoes Onions Peppers Cucumbers Zucchini and squash Eggplant
Green beans Sweet corn Pumpkins Asparagus Artichokes Sweet potatoes Melons Apples Pears
Cherries Peaches and nectarines Plums Apricots Olives Figs Pomegranates Persimmons
Kiwifruit Blackberries Wine grapes Table grapes Lemons Oranges Mandarins Grapefruit
Avocado Mango Bananas Almonds Walnuts Chestnuts Pecans Lavender Basil Rosemary
Thyme Mint Saffron Alfalfa (lucerne)

Maize (corn) ideal 75 °F to 90 °F Good

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (56)

Cereals: Wheat (winter), Maize (corn), Rice, Sorghum

TOLERABLE (3)

Tree fruit: Persimmons

Vines: Table grapes

Nuts: Pecans

TOLERABLE (22)

Cereals: Barley, Oats, Rye

Legumes: Soybeans, Chickpeas, Common beans

Oilseeds and industrial: Sunflower, Peanuts, Cotton, Hemp

Vegetables: Tomatoes, Onions, Peppers, Cucumbers, Zucchini and squash, Eggplant, Green beans, Sweet corn, Pumpkins, Asparagus, Artichokes, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Olives, Figs, Pomegranates, Persimmons, Kiwifruit

Berries: Blackberries

Vines: Wine grapes, Table grapes

Citrus: Lemons, Oranges, Mandarins, Grapefruit

Tropical fruit: Avocado, Mango, Bananas

Nuts: Almonds, Walnuts, Chestnuts, Pecans

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron

Fodder and pasture: Alfalfa (lucerne)

► **Not suited (5)** · show the crops this land does not suit

Growing degree days (base 10 °C, warm season)

This land: 1,752

Ideal for 51 of 83 crops · tolerable for 22 · not suited to 10

Wheat (winter)	Barley	Oats	Rye	Maize (corn)	Sorghum	Soybeans	Chickpeas	Lentils
Common beans	Sunflower	Rapeseed (canola)	Sugar beet	Hemp	Hops	Tomatoes	Onions	
Peppers	Cucumbers	Zucchini and squash	Eggplant	Green beans	Sweet corn	Pumpkins	Asparagus	
Artichokes	Apples	Pears	Cherries	Peaches and nectarines	Plums	Apricots	Kiwifruit	Blueberries
Strawberries	Raspberries	Blackberries	Currants	Wine grapes	Table grapes	Walnuts	Hazelnuts	
Chestnuts	Lavender	Basil	Rosemary	Thyme	Saffron	Alfalfa (lucerne)	Clover pasture	
Ryegrass pasture								

Maize (corn) ideal 1,500 to 3,200 **Good**

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (51)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Sorghum

Legumes: Soybeans, Chickpeas, Lentils, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Sugar beet, Hemp, Hops

Vegetables: Tomatoes, Onions, Peppers, Cucumbers, Zucchini and squash, Eggplant, Green beans, Sweet corn, Pumpkins, Asparagus, Artichokes

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Kiwifruit

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Legumes: Lentils, Field peas, Faba beans

Oilseeds and industrial: Rapeseed (canola), Sugar beet, Hops

Vegetables: Potatoes, Garlic, Carrots, Cabbage, Beetroot

Berries: Blueberries, Strawberries, Raspberries, Currants

Nuts: Hazelnuts, Pistachios

Fodder and pasture: Clover pasture, Ryegrass pasture

TOLERABLE (22)

Cereals: Rice

Legumes: Field peas, Faba beans

Oilseeds and industrial: Peanuts

Vegetables: Potatoes, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Spinach, Peas (garden), Beetroot, Sweet potatoes, Melons

Tree fruit: Olives, Figs, Pomegranates, Persimmons

Nuts: Almonds

Herbs and spices: Mint

Vines: Wine grapes, Table grapes

Nuts: Walnuts, Hazelnuts, Chestnuts

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Saffron

Fodder and pasture: Alfalfa (lucerne), Clover pasture, Ryegrass pasture

► **Not suited (10)** · show the crops this land does not suit

Frost-free season (days) This land: 185 days

Ideal for **69** of 83 crops · tolerable for 3 · not suited to 11

Wheat (winter)	Barley	Oats	Rye	Maize (corn)	Rice	Sorghum	Soybeans	Chickpeas	Lentils
Field peas	Faba beans	Common beans	Sunflower	Rapeseed (canola)	Peanuts	Cotton	Sugar beet		
Hemp	Hops	Tomatoes	Potatoes	Onions	Garlic	Carrots	Lettuce	Cabbage	Broccoli
Cauliflower	Peppers	Cucumbers	Zucchini and squash	Eggplant	Spinach	Peas (garden)			
Green beans	Sweet corn	Pumpkins	Asparagus	Beetroot	Sweet potatoes	Melons	Apples	Pears	
Cherries	Peaches and nectarines	Plums	Apricots	Persimmons	Kiwifruit	Blueberries	Strawberries		
Raspberries	Blackberries	Currants	Wine grapes	Table grapes	Walnuts	Hazelnuts	Chestnuts		
Lavender	Basil	Rosemary	Thyme	Mint	Saffron	Alfalfa (lucerne)	Clover pasture	Ryegrass pasture	

Maize (corn) ideal 130 days or more Good

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (69)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Rice, Sorghum

Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Peanuts, Cotton, Sugar beet, Hemp, Hops

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Asparagus, Beetroot, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Persimmons, Kiwifruit

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Vines: Wine grapes, Table grapes

Nuts: Walnuts, Hazelnuts, Chestnuts

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron

Fodder and pasture: Alfalfa (lucerne), Clover pasture, Ryegrass pasture

► **Not suited (11)** · show the crops this land does not suit

TOLERABLE (3)

Vegetables: Artichokes

Nuts: Almonds, Pecans

Winter chill (hours between 0 and 7.2 °C)

This land: 1,281 h

Ideal for 78 of 83 crops · tolerable for 4 · not suited to 1

Wheat (winter)	Barley	Oats	Rye	Maize (corn)	Rice	Sorghum	Soybeans	Chickpeas	Lentils
Field peas	Faba beans	Common beans	Sunflower	Rapeseed (canola)	Peanuts	Cotton	Sugar beet		
Hemp	Hops	Tomatoes	Potatoes	Onions	Garlic	Carrots	Lettuce	Cabbage	Broccoli
Cauliflower	Peppers	Cucumbers	Zucchini and squash	Eggplant	Spinach	Peas (garden)			
Green beans	Sweet corn	Pumpkins	Asparagus	Artichokes	Beetroot	Sweet potatoes	Melons		
Apples	Pears	Cherries	Plums	Olives	Figs	Pomegranates	Blueberries	Strawberries	
Raspberries	Blackberries	Currants	Wine grapes	Table grapes	Lemons	Oranges	Mandarins		
Grapefruit	Avocado	Mango	Bananas	Almonds	Walnuts	Hazelnuts	Pistachios	Chestnuts	
Lavender	Basil	Rosemary	Thyme	Mint	Saffron	Alfalfa (lucerne)	Clover pasture	Ryegrass pasture	

Maize (corn) ideal any Good

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (78)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Rice, Sorghum

Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Peanuts, Cotton, Sugar beet, Hemp, Hops

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Asparagus, Artichokes, Beetroot, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Plums, Olives, Figs, Pomegranates

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Vines: Wine grapes, Table grapes

Citrus: Lemons, Oranges, Mandarins, Grapefruit

Tropical fruit: Avocado, Mango, Bananas

Nuts: Almonds, Walnuts, Hazelnuts, Pistachios, Chestnuts

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron

Fodder and pasture: Alfalfa (lucerne), Clover pasture, Ryegrass pasture

► **Not suited (1)** · show the crops this land does not suit

Late-spring frost (share of years)

This land: 80%

Ideal for 0 of 83 crops · tolerable for 1 · not suited to 82

No crop in the catalog has this land value in its ideal range.

Maize (corn) ideal up to 25% Poor

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (0)

TOLERABLE (1)

None

Legumes: Faba beans

► **Not suited (82)** · show the crops this land does not suit

Days at or above 35 °C per year

This land: 0.4 days

Ideal for **80** of 83 crops · tolerable for 3 · not suited to 0

Wheat (winter)	Barley	Oats	Rye	Maize (corn)	Rice	Sorghum	Soybeans	Chickpeas	Lentils
Field peas	Faba beans	Common beans	Sunflower	Rapeseed (canola)	Peanuts	Cotton	Sugar beet		
Hemp	Hops	Tomatoes	Potatoes	Onions	Garlic	Carrots	Cabbage	Broccoli	Cauliflower
Peppers	Cucumbers	Zucchini and squash	Eggplant	Peas (garden)	Green beans	Sweet corn			
Pumpkins	Asparagus	Artichokes	Beetroot	Sweet potatoes	Melons	Apples	Pears	Cherries	
Peaches and nectarines	Plums	Apricots	Olives	Figs	Pomegranates	Persimmons	Kiwifruit		
Blueberries	Strawberries	Raspberries	Blackberries	Currants	Wine grapes	Table grapes	Lemons		
Oranges	Mandarins	Grapefruit	Avocado	Mango	Bananas	Almonds	Walnuts	Hazelnuts	
Chestnuts	Pecans	Lavender	Basil	Rosemary	Thyme	Mint	Saffron	Alfalfa (lucerne)	
Clover pasture	Ryegrass pasture								

Maize (corn) ideal up to 10 days Good

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (80)

TOLERABLE (3)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Rice, Sorghum

Vegetables: Lettuce, Spinach

Nuts: Pistachios

Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Peanuts, Cotton, Sugar beet, Hemp, Hops

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Peas (garden), Green beans, Sweet corn, Pumpkins, Asparagus, Artichokes, Beetroot, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Olives, Figs, Pomegranates, Persimmons, Kiwifruit

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Vines: Wine grapes, Table grapes

Citrus: Lemons, Oranges, Mandarins, Grapefruit

Tropical fruit: Avocado, Mango, Bananas

Nuts: Almonds, Walnuts, Hazelnuts, Chestnuts, Pecans

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron

Fodder and pasture: Alfalfa (lucerne), Clover pasture, Ryegrass pasture

Not suited (0): every crop tolerates this value.

Which crops suit this rainfall

Annual rainfall

This land: 41 in

Ideal for **30** of 83 crops · tolerable for 49 · not suited to 4

Maize (corn)	Rice	Peanuts	Hops	Apples	Pears	Cherries	Peaches and nectarines	Plums
Apricots	Persimmons	Kiwifruit	Blueberries	Strawberries	Raspberries	Blackberries	Currants	
Lemons	Oranges	Mandarins	Grapefruit	Avocado	Mango	Walnuts	Hazelnuts	Chestnuts
Pecans	Mint	Clover pasture	Ryegrass pasture					

Maize (corn) ideal 20 in to 43 in **Good**

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (30)

Cereals: Maize (corn), Rice

Oilseeds and industrial: Peanuts, Hops

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Persimmons, Kiwifruit

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Citrus: Lemons, Oranges, Mandarins, Grapefruit

Tropical fruit: Avocado, Mango

Nuts: Walnuts, Hazelnuts, Chestnuts, Pecans

Herbs and spices: Mint

Fodder and pasture: Clover pasture, Ryegrass pasture

TOLERABLE (49)

Cereals: Wheat (winter), Barley, Oats, Rye, Sorghum

Legumes: Soybeans, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Cotton, Sugar beet, Hemp

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Asparagus, Artichokes, Beetroot, Sweet potatoes, Melons

Tree fruit: Olives, Figs, Pomegranates

Vines: Wine grapes, Table grapes

Tropical fruit: Bananas

Nuts: Almonds

Herbs and spices: Lavender, Basil, Rosemary, Thyme

Fodder and pasture: Alfalfa (lucerne)

► **Not suited (4)** · show the crops this land does not suit

Which crops cope with this disease pressure

Leaf-wetness hours (warm season)

This land: 535 h

Ideal for **5** of 83 crops · tolerable for 77 · not suited to 1

Mango	Bananas	Alfalfa (lucerne)	Clover pasture	Ryegrass pasture
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Maize (corn) ideal up to 450 h **Marginal**

EVERY CROP FOR THIS FACTOR, BY CATEGORY

IDEAL (5)

Tropical fruit: Mango, Bananas

Fodder and pasture: Alfalfa (lucerne), Clover pasture, Ryegrass pasture

TOLERABLE (77)

Cereals: Wheat (winter), Barley, Oats, Rye, Maize (corn), Rice, Sorghum

Legumes: Soybeans, Chickpeas, Lentils, Field peas, Faba beans, Common beans

Oilseeds and industrial: Sunflower, Rapeseed (canola), Peanuts, Cotton, Sugar beet, Hemp, Hops

Vegetables: Tomatoes, Potatoes, Onions, Garlic, Carrots, Lettuce, Cabbage, Broccoli, Cauliflower, Peppers, Cucumbers, Zucchini and squash, Eggplant, Spinach, Peas (garden), Green beans, Sweet corn, Pumpkins, Asparagus, Artichokes, Beetroot, Sweet potatoes, Melons

Tree fruit: Apples, Pears, Cherries, Peaches and nectarines, Plums, Apricots, Olives, Figs, Pomegranates, Persimmons, Kiwifruit

Berries: Blueberries, Strawberries, Raspberries, Blackberries, Currants

Vines: Wine grapes, Table grapes

Citrus: Lemons, Oranges, Mandarins, Grapefruit

Tropical fruit: Avocado

Nuts: Almonds, Walnuts, Hazelnuts, Chestnuts, Pecans

Herbs and spices: Lavender, Basil, Rosemary, Thyme, Mint, Saffron

► **Not suited (1)** · show the crops this land does not suit

Who stands behind the data: ERA5 climate reanalysis

Intergovernmental or EU program

SoilGrids 2.0

Academic or non-profit

USDA soil survey (SSURGO)

Government agency

AWS Terrain Tiles (Terrarium)

Government agency

ESA WorldCover 2021

Space agency

OpenStreetMap (Overpass and Nominatim)

Foundation

Natural Earth 1:50m coastline

Cartographic society (NACIS)

GloFAS river discharge

Intergovernmental or EU program

USGS Earthquake Catalog (ComCat)

Government agency

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