

JardAIIn - AI Garden Planner

Your Personalized Garden Plan

{'zip_code': 'K1A 0A6', 'city': 'Ottawa', 'state': 'Ontario', 'usda_zone': '4a-6a', 'last_frost_date': datetime.date(2025, 5, 1), 'first_frost_date': datetime.date(2025, 10, 1), 'growing_season_days': 153, 'climate_type': 'cold'}

Climate Zone: 4a-6a

Last Frost: May 01

First Frost: October 01

3 Plants Selected
3 Varieties

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AI-Powered Garden Planning

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Garden Overview

Location Information

Location: {'zip_code': 'K1A 0A6', 'city': 'Ottawa', 'state': 'Ontario', 'usda_zone': '4a-6a', 'last_frost_date': datetime.date(2025, 5, 1), 'first_frost_date': datetime.date(2025, 10, 1), 'growing_season_days': 153, 'climate_type': 'cold'}

Climate Zone: 4a-6a

Selected Plants (3 varieties)

Tomato Vegetable
Lettuce Vegetable
Carrots Vegetable

Tomato

Vegetable
Tomato

Basic Information

Category: Vegetable

Sun Requirement: full sun

Water Needs: moderate to high

Days to Maturity: 75

Growing Instructions

Soil Preparation

Test soil pH to 6.0-6.8 using digital meter 2-3 weeks before planting Work 2-3 inches compost into top 8 inches soil when temperature reaches 50°F Choose location with full sun receiving 6-8 hours direct sunlight daily

Planting Instructions

Start Tomato seeds indoors 6-8 weeks before 2025-05-01 at 70-75°F soil temperature Sow seeds 0.25 inches deep with 24 inch spacing between plants Transplant outdoors 2 weeks after 2025-05-01 when nighttime temperatures stay above 50°F

Care & Maintenance

Water Tomato deeply 1-1.5 inches per week checking soil moisture 2 inches deep every 3 days Apply 10-10-10 fertilizer at 2 tablespoons per plant every 3 weeks starting 2 weeks after transplant Mulch with 2-3 inches organic matter keeping 6 inches away from plant stem

Harvesting

Begin harvesting Tomato approximately 75 days after transplant when fruits reach full size Harvest in early morning 6-8 AM when temperatures below 75°F for best quality and flavor Cut stems with clean sharp shears 1/4 inch above leaf node to encourage continued production

Common Problems & Solutions

Inspect Tomato weekly for common zone 4a-6a pests from May through September Apply neem oil spray at 2 tablespoons per gallon water every 14 days if pests detected Use floating row covers first 3 weeks after transplant to prevent early season pest damage

Lettuce

Vegetable
Lettuce

Basic Information

Category: Vegetable
Sun Requirement: partial shade
Water Needs: moderate
Days to Maturity: 45

Growing Instructions

Soil Preparation

Test soil pH to 6.0-7.0 using digital meter 2-3 weeks before planting Work 2-3 inches compost into top 8 inches soil when temperature reaches 50°F Choose location with partial shade receiving 6-8 hours direct sunlight daily

Planting Instructions

Start Lettuce seeds indoors 6-8 weeks before 2025-05-01 at 70-75°F soil temperature Sow seeds 0.25 inches deep with 6 inch spacing between plants Transplant outdoors 2 weeks after 2025-05-01 when nighttime temperatures stay above 50°F

Care & Maintenance

Water Lettuce deeply 1-1.5 inches per week checking soil moisture 2 inches deep every 3 days Apply 10-10-10 fertilizer at 2 tablespoons per plant every 3 weeks starting 2 weeks after transplant Mulch with 2-3 inches organic matter keeping 6 inches away from plant stem

Harvesting

Begin harvesting Lettuce approximately 45 days after transplant when fruits reach full size Harvest in early morning 6-8 AM when temperatures below 75°F for best quality and flavor Cut stems with clean sharp shears 1/4 inch above leaf node to encourage continued production

Common Problems & Solutions

Inspect Lettuce weekly for common zone 4a-6a pests from May through September Apply neem oil spray at 2 tablespoons per gallon water every 14 days if pests detected Use floating row covers first 3 weeks after transplant to prevent early season pest damage

Carrots

Vegetable
Carrots

Basic Information

Category: Vegetable
Sun Requirement: full sun
Water Needs: moderate
Days to Maturity: 70

Growing Instructions

Soil Preparation

Test soil pH to 6.0-6.8 using digital meter 2-3 weeks before planting Work 2-3 inches compost into top 8 inches soil when temperature reaches 50°F Choose location with full sun receiving 6-8 hours direct sunlight daily

Planting Instructions

Start Carrots seeds indoors 6-8 weeks before 2025-05-01 at 70-75°F soil temperature Sow seeds 0.5 inches deep with 2 inch spacing between plants Transplant outdoors 2 weeks after 2025-05-01 when nighttime temperatures stay above 50°F

Care & Maintenance

Water Carrots deeply 1-1.5 inches per week checking soil moisture 2 inches deep every 3 days Apply 10-10-10 fertilizer at 2 tablespoons per plant every 3 weeks starting 2 weeks after transplant Mulch with 2-3 inches organic matter keeping 6 inches away from plant stem

Harvesting

Begin harvesting Carrots approximately 70 days after transplant when fruits reach full size Harvest in early morning 6-8 AM when temperatures below 75°F for best quality and flavor Cut stems with clean sharp shears 1/4 inch above leaf node to encourage continued production

Common Problems & Solutions

Inspect Carrots weekly for common zone 4a-6a pests from May through September Apply neem oil spray at 2 tablespoons per gallon water every 14 days if pests detected Use floating row covers first 3 weeks after transplant to prevent early season pest damage

Planting Calendar for 4a-6a

January

No plantings scheduled

February

No plantings scheduled

March

No plantings scheduled

April

No plantings scheduled

May

No plantings scheduled

June

No plantings scheduled

July

No plantings scheduled

August

No plantings scheduled

September

No plantings scheduled

October

No plantings scheduled

November

No plantings scheduled

December

No plantings scheduled

Garden Layout Guide

Plant Spacing Requirements

Plant	Spacing	Depth	Sun	Water
Tomato	24 inches	0.25 inches	full sun	moderate to high
Lettuce	6 inches	0.25 inches	partial shade	moderate
Carrots	2 inches	0.5 inches	full sun	moderate

Layout Tips & Best Practices

- Plant tall crops on the north side to avoid shading shorter plants
- Group plants with similar water needs together
- Consider companion planting benefits
- Leave pathways for easy access and maintenance

Estimated Garden Area: 12 square feet (estimated)

Plants by Category

Vegetable

Tomato Lettuce Carrots