

Quick Reference Guide: Soybean and Pulse Seeding Timing Considerations

	Cool-Season Crops		Warm-Season Crops	
	Faba Beans	Field Peas	Soybeans	Dry Beans
Minimum Soil Temp. for Germination	3 to 5°C	4°C	8°C (>14 °C for faster emergence)	12°C (>15°C for faster emergence)
Planting Date	Mid-April to early May	Late April to early May	Early to Late May	Late May to early June
Further Planting Date Considerations	Can tolerate cool soils at seeding, but sensitive to hot temperatures during flowering which can cause flowers to abort. Delaying seeding increases risk of flower blasting.		Aim to plant during the second to third weeks of May for high yield potential. Delay seeding if cool, wet conditions are forecasted 24 hours following seeding to avoid chilling injury.	Planting into warm soils will aid in rapid emergence.
Spring Frost Tolerance	Tolerate spring frosts. Cotyledons remain underground. If frost injury occurs, new shoots will emerge from below-ground.		Susceptible. Emerged seedlings can tolerate air temperatures of -2°C for brief periods but will not recover if the growing points are damaged.	Extremely susceptible to spring frost. Planted later in the season to minimize risk.
	Consult the <i>Soybean and Pulse Variety Guide</i> for a variety's days to maturity.			
Days to Maturity	104 – 110	90 - 97	V. Early: < 100 frost-free days Early: 110 – 118 frost-free days Mid: 119 – 125 frost-free days Long: >125 frost-free days	91 – 101
MASC Seeding Deadline	May 25	June 15*	Area 1: June 6 Area 2: May 30 Area 3: May 30 Area 4: May 30	Area 1: June 10 Area 2: June 6 Area 3: June 6 ITA: June 6
MASC Extended Seeding Period	May 26 - 30	June 16 - 20	Area 1: June 7 - 11 Area 2: May 31 - June 4 Area 3: May 31 - June 4 Area 4: none	Area 1: June 11 - 15 Area 2: June 7 - 11 Area 3: June 7 - 11 ITA: none
MASC Yield Response to Seeding Week	N/A	Week 1 of May: 100% Week 2 of May: 95% Week 3 of May: 80% Week 4 of May: 80% Week 1 of June: 65% Week 2 of June: 45%	Week 1 of May: 105% Week 2 of May: 105% Week 3 of May: 100% Week 4 of May: 95% Week 1 of June: 85% Week 2 of June: 85%	Weeks 2, 3, and 4 of May have resulted in the greatest navy bean yields.

For more detailed production information, visit manitobapulse.ca/production.

*Although this is the seeding deadline, to maximize pea yield for grain production, target seeding in early May.