

## Winter Camelina – *Camelina sativa*

<p><b>Key Cultivars:</b></p> <ul style="list-style-type: none"> <li>- Joelle</li> <li>- Dakota Early Riser</li> </ul>	<p><b>Climate Risk Notes:</b></p>
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	<i>Key Months for Crop Development and Thresholds</i>											
	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
<b>Stage of growth</b> <i>(under current conditions)</i>	Dormant <sup>f, g</sup>	Dormant <sup>f, g</sup>	Dormant <sup>f, g</sup>	Dormant, Vegetative growth <sup>f, g</sup>	Vegetative growth, Flowering <sup>e, f, g</sup>	Flowering, Seed development <sup>e, f, g</sup>	Seed development, Harvest <sup>f, g</sup>	Harvest <sup>f, g</sup>		Planting <sup>b, f, g</sup>	Planting, Vegetative growth <sup>b, f, g</sup>	Dormant <sup>f, g</sup>
<b>Min Temp (°F)</b>	-18 <sup>b, j, k</sup>	-18 <sup>b, j, k</sup>	-18 <sup>b, j, k</sup>	-18 <sup>b, j, k</sup>	34 <sup>d, h, i, j</sup>	34 <sup>d, h, i, j</sup>	34 <sup>d, h, i, j</sup>	34 <sup>d, h, i, j</sup>		38 <sup>a, b, i</sup>	38 <sup>a, b, i</sup>	-18 <sup>b, j, k</sup>
<b>Max Temp (°F)</b>	32 <sup>d</sup>	32 <sup>d</sup>	32 <sup>d</sup>	82 <sup>d</sup>	82 <sup>d</sup>	82 <sup>d</sup>	90 <sup>i, j, k</sup>	90 <sup>i, j, k</sup>		90 <sup>i, j, k</sup>	90 <sup>i, j, k</sup>	32 <sup>d</sup>

<i>Climate</i>									<i>Soil</i>						
Min Optimal Temp (°F)	Max Optimal Temp (°F)	Min Absolute Temp (°F)	Max Absolute Temp (°F)	Germination Soil Temp (°F)	Growing Degree Days (40°F base)	Chilling Hours (32-45 °F)	Min Rainfall (in/week)	Max Rainfall (in/week)	Min pH	Max pH	Optimal Soil Texture	Absolute Soil Texture	Optimal Soil Drainage	Absolute Soil Drainage	Soil Depth (in)
5 <sup>a, d, i, j</sup>	75 <sup>d, h, i, j</sup>	-18 <sup>b, j, k</sup>	90 <sup>i, j, k</sup>	>34 <sup>a, b, d, i</sup>	2160 <sup>h, i, j</sup>	NA	0.5 <sup>b, f, h</sup>	2 <sup>a, h, i</sup>	5.5 <sup>d, h, i, j</sup>	8.5 <sup>d, h, i, j</sup>	Loam, sandy loam, loamy sand, sandy clay loam, silt loam, silty clay loam <sup>c, h, j</sup>	Sand, silt, silty clay <sup>f, h, j</sup>	Well drained <sup>c, f, j</sup>	Moderately well drained, somewhat excessively drained <sup>c, f, j</sup>	10 <sup>f, i, j</sup>

## References

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- <sup>b</sup> Iowa State University. (n.d.). *Winter camelina cover crop fact sheet for Iowa*. USDA – NRCS. [https://www.nrcs.usda.gov/sites/default/files/2024-04/Camelina%20Cover%20Crop%20Fact%20Sheet\\_0.pdf](https://www.nrcs.usda.gov/sites/default/files/2024-04/Camelina%20Cover%20Crop%20Fact%20Sheet_0.pdf)
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