

Garden Planting and Watering Guide

Sorted by crop name. Optimized for Cedar City, Utah (Average Date of Last Frost - 20 May)

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<u>Crop</u>	Start Plants Indoors (¹⁰)	Plant Outdoors	Germ Time (days)	Germ Temp (°F)	Min Soil Temp (°F)	Optimum Growing Temp (°F)	Light	Plants Per Ft²	Soil / Hydroponic Conditions	Critical Time To Water	Gallons Needed For A 5-ft row
Artichoke						65-80	Not directly under	1	perlite 10 inches or deeper		
Asparagus		Feb 6	14-21	70-75						As ferns begin to grow their foliage	
Basil ⁽⁹⁾	6 wks (8 Apr)										
Beans ^(1,8)		After danger of frost past (Apr 15, Jul 1 ⁽¹¹⁾)	7-10	65-85 ⁽¹⁴⁾	57	60-65	Needs good light	5	4 inches deep or deeper with plenty of moisture	Beginning at pollination and continuing through pod development, during harvesting	2 per week depending on rainfall
Beets ^(2,8)		3-4 weeks after last frost (Mar 15, Aug 15 ⁽¹¹⁾)	5-14	55-85 ⁽¹²⁾						Before soil gets bone-dry	1 at early stage; 2 every 2 weeks
Broccoli ^(2,9)	4-6 wks (8 - 22 Apr)	(Mar 7, Aug 1 ⁽¹¹⁾)	5-14	70-75 ⁽¹²⁾		55-65	Needs good light	2	Cut 5" from top and will continue to produce	During the time the heads begin to develop. Don't let soil dry out for 4 weeks after transplanting	1 to 1-1/2 per week
Brussels Sprouts ^(2,9)	4-8 wks (25 Mar - 24 Apr)	(Mar 7 ⁽¹¹⁾)	5-14	70-75 ⁽¹²⁾						Don't let soil dry out for 4 weeks after transplanting	1 to 1-1/2 per week
Cabbage ^(3,9)	4-6 wks (8 - 22 Apr)	(Mar 7 ⁽¹¹⁾)	5-14	70-75 ⁽¹²⁾	55 (45° for transplant)	55-65	Needs good light	2	2.5" deep or deeper	During the time the heads begin to develop. Water frequently in dry weather	2 per week
Carrots ^(2,8)		As soon as soil can be worked (Mar 7, Jul 7 ⁽¹¹⁾)	10-21	55-85 ⁽¹²⁾	46	60-85	Moderate light	2	Good drainage required	As roots begin to enlarge. Water before soil gets bone-dry	1 at early stage; 2 every 2 weeks

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Cauliflower ^(3,9)	4-6 wks (8 - 22 Apr)	(Mar 15, Jul 1 ⁽¹¹⁾)	8-10	70-75 ⁽¹²⁾		60-70	Needs good light	1	2.5" deep or deeper	During flowering and head development. Water frequently	2 per week
Celeriac ⁽⁹⁾	6-8 wks (25 Mar - 8 Apr)										
Celery ^(3,9)	6-8 wks (25 Mar - 8 Apr)	(Mar 7, Aug 15 ⁽¹¹⁾)	10-21	55-70 ⁽¹³⁾						Water frequently	2 per week
Chives ⁽⁹⁾	8-12 wks (26 Feb - 25 Mar)										
Collards ⁽⁸⁾			5-10	65-85 ⁽¹²⁾							
Corn ^(1,8)		(Apr 1, Jul 7 ⁽¹¹⁾)	5-7	70-85 ⁽¹⁴⁾	65	60-70	Needs great light	3	6" deep or deeper with great drainage	As ear silk develops and tassels become apparent, when cobs swell	2 at important stages
Cucumbers ^(3,8)	4-6 wks (8 - 22 Apr)	After last frost and soil thoroughly warmed (Apr 7 ⁽¹¹⁾)	5-10	70-85 ⁽¹⁴⁾	58	75-85	Good light	2	4 to 6" deep or deeper	During flowering as well as through fruit development. Water frequently	1 per week
Eggplant ⁽⁹⁾	8-10 wks (11 Mar - 25 Mar)	(Apr 7 ⁽¹¹⁾)	10-15	70 ⁽¹⁴⁾						During flowering as well as through fruit development	
Endive ⁽⁸⁾											
Garlic						80 then 60	Good light	3	4" deep or deeper - sand with high initial temp cooling off		

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Kale ⁽⁸⁾		(Mar 7, Aug 15 ⁽¹¹⁾)									
Kohlrabi ⁽⁸⁾											
Leeks ⁽⁹⁾	8-12 wks (26 Feb - 25 Mar)	(Mar 7 ⁽¹¹⁾)									
Lettuce ^(3,9)	4-6 wks (8 - 22 Apr)	(Mar 1, Jul 17 ⁽¹¹⁾)	7-10	70 ⁽¹³⁾	41	55-70	Moderate light	6	Grow with rockwool sitting on styrofoam in water	As heads begin to develop. Water frequently	2 per week
Melons ^(3,8)	4-6 wks (8 - 22 Apr)	After last frost and soil thoroughly warmed (Apr 15 ⁽¹¹⁾)	5-7	75-85 ⁽¹⁴⁾						During flowering and evenly throughout fruit development	1 per week
Mustard Greens ⁽⁸⁾											
Onions ^(2,9)	10-12 wks (26 Feb - 11 Mar)	(Mar 1 ⁽¹¹⁾)	10-14	70-75 ⁽¹³⁾	41	60-80	Good light	3	4 inches or deeper within aggregate or sand	When bulbs begin to enlarge, in dry weather, water in early stage to get plants going	1/2 to 1 per week if soil is very dry
Parsley ⁽⁹⁾	8 wks (25 Mar)	Feb 10	14-21	70-75							
Parsnips ^(2,8)		(Mar 7 ⁽¹¹⁾)								Before soil gets bone-dry	1 per week in early stages
Peas ^(1,8)		2 weeks before last date of frost (Mar 7, Aug 7 ⁽¹¹⁾)	5-10	50-75 ⁽¹³⁾	42	60-65	Good light	4	4" deep or deeper in aggregate with good aeration	When flowers form, during pod forming, during harvesting	2 per week

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Peppers ^(1,9)	6-8 wks (25 Mar - 8 Apr)	(Apr 1 ⁽¹¹⁾)	7-14	75-85 ⁽¹⁴⁾	62 (57° for transplant)					For 3-4 weeks after transplanting, when flowers form, when fruit forms	1 twice a week
Potatoes ^(1,8)		(Apr 1 ⁽¹¹⁾)		70 ⁽¹²⁾	45	60-70	Fair light	3	12" deep or deeper with good drainage	When the size of marbles	2 per week
Pumpkin ⁽⁸⁾	4-6 wks (8 - 22 Apr)	After last frost and soil thoroughly warmed (Apr 23 ⁽¹¹⁾)	7-10	70-75 ⁽¹⁴⁾	60	70-80	Good light	1	Sow seed direct		
Radishes ⁽⁸⁾		As soon as soil can be worked (Mar 7, Jul 17 ⁽¹¹⁾)	4-6	50-85 ⁽¹³⁾	40						
Spinach ^(3,8)		As soon as soil can be worked (Mar 15, Aug 1, Jul 17 ⁽¹¹⁾)	5-10	65 ⁽¹³⁾	38	60-65	Cool shaded	3	4" deep or deeper using rockwool or sand or perlite	Water frequently	2 per week
Squash ^(3,8)	4-6 wks (8 - 22 Apr)	(Apr 15 ⁽¹¹⁾)	5-10	70-85 ⁽¹⁴⁾						Water frequently	1 per week
Strawberry						60-65	Good light	6	Troughs filled with gravel 6" to 8" deep		
Sunflower					60						
Sweet potatoes		(Apr 21 ⁽¹¹⁾)									
Swiss Chard ⁽⁸⁾		As soon as soil can be worked (Mar 15 ⁽¹¹⁾)	5-14	55-85 ⁽¹²⁾							

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Tomatoes ^(1,9)	6-8 wks (25 Mar - 8 Apr)	(Apr 7 ⁽¹¹⁾)	5-14	70-85 ⁽¹⁴⁾	60 (57° for transplant)	70-75	Great light	3	Rockwool with trellis or something to hold them up	For 3-4 weeks after transplanting, when flowers form, when fruit forms	1 twice a week or more
Turnips ⁽⁸⁾		(Mar 15, Aug 1 ⁽¹¹⁾)	7-10	60-85							
Wheat		(Mar 1, Sep 15 ⁽¹¹⁾)				60-70	Good light	8	Humus; significant moisture but not flooding		
Zucchini ⁽⁸⁾	4-6 wks (8 - 22 Apr)	After last frost and soil thoroughly warmed (Apr 15 ⁽¹¹⁾)	7-10	70-75 ⁽¹⁴⁾		75-85	Good light	0.5	Aggregate culture with constant supply of moisture		

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Notes:

1. This crop needs water at critical stages of development
2. This crop does not need frequent watering
3. This crop needs a lot of water during dry spells
4. Climate and soil differences may dictate modifications of this guide.
5. This guide assumes fertile, well-balanced soil. Increase frequency during hot, dry periods or if soil is low in humus. Watering levels for heavy clay soil must also be modified (it's best to lighten the soil with organic mater and sand before planting).
6. Don't over-water! Applying excessive water to the garden is wasteful and often reduces harvest quality or yield. Use only as much water as needed for a good harvest. If you observe plants beginning to wilt, increase the watering frequency and/or volume to a level that avoids wilting.
7. Plant crops with similar water needs together to avoid over-watering or under-watering crops with incompatible water needs.
8. Vegetable seeds best sown in the ground.
9. Vegetables best started indoors and transplanted.
10. Table gives number of weeks before last frost (20 May for Cedar City, Utah) in Spring to start seeds for transplanting.
11. Planting dates in parentheses are for Cedar City, Utah.
12. Tolerates cool nights for germination.
13. Requires cool nights for germination.
14. Requires warm nights for germination.