

RECOMMENDATIONS FOR FLOWERING AND REPRODUCING WILD TOMATO SPECIES

Solanum Species (new taxonomy)		Sowing ^a	Flowering	Mating System	Seed Produced	Pop Size	# Plants	Seed	Notes
(new taxonomy)	(old taxonomy)				by ^b	for Seed	per pot	Germination ^c	
S. cheesmaniae S. galapagense	L. cheesmanii L. cheesmanii f. minor	Nov	Spring	autogamous (SC)	selfing	10	2 per 1 gal pot	Bleach seed for 1 hour	Seed produced under low light conditions is of poor quality.
S. chilense	L. chilense	July	Fall-Spring	allogamous (SI)	mass sib	50	5 per 1 gal pot	Bleach seed for 30 minutes	
S. chmielewskii	L. chmielewskii	May	year round	facultative (SC)	mass sib	50	5 per 1 gal pot	Bleach seed for 30 minutes	
S. lycopersicum	L. esculentum var. cerasiforme	April	year round	autogamous (SC)	selfing	6	2 per 2 gal pot (or field)	Bleach seed for 30 minutes	
S. habrochaites	L. hirsutum	July	Fall-Spring	facultative (SC)	mass sib	15 	5 per 2 gal pot	Bleach seed for 30 minutes	Forms edema on leaves
				allogamous (SI)	 mass sib	50			under high humidity.
S. neorickii	L. parviflorum	May	year round	autogamous (SC)	selfing	15	3 per 1 gal pot	Bleach seed for 30 minutes	
S. pennellii	L. pennellii	June	year round	allogamous (SI) or facultative (SC)	mass sib	50	5 per 1 gal pot	Bleach seed for 30 minutes	Use well- drained soil and water sparingly.
S. arcanum S. corneliomulleri S. huaylasense S. peruvianum	L. peruvianum	June	mostly year round	allogamous (SI) or facultative (SC)	mass sib	50	5 per 1 gal pot	Bleach seed for 30 minutes	Mountain races are short day.
S. pimpinellifolium	L. pimpinellifolium	April	year round	autogamous (SC)	selfing	6	(field)	Bleach seed for 30 minutes	
	Feb year round mass sib facultative (SC)	50	5 per 1 gal pot		Regenerate in greenhouse to limit outcrossing.				
S. juglandifolium	S. juglandifolium	Oct	Spring	allogamous (SI)	mass sib	50	3 per 2 gal pot	Bleach seed for 1 hour, knick seed coat	Water heavily; 6 mo. seed maturation. See also (d) below.
S. lycopersicoides	S. lycopersicoides	Aug	Fall-Spring	allogamous (SI)	mass sib	50	5 per 2 gal pot	Bleach seed for 1 hour, knick seed coat	6 mo. seed maturation.
S. ochranthum	S. ochranthum	Oct	Spring	allogamous (SI)	mass sib	50	3 per 2 gal pot	Bleach seed for 1 hour, knick seed coat	Water heavily; 6 mo. seed maturation. See also (d) below.
S. sitiens	S. sitiens	Aug	year round	allogamous (SI)	mass sib	50	3 per	Bleach seed	Graft onto

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						2 gal	for 1 hour,	LA4135; 6	į
						pot	knick seed	mo. seed	

^a Planting dates that are optimal for Davis, CA; certain groups (*L. esculentum, chmielewskii, parviflorum* and selfing *pimpinellifolium*) can thrive at almost any time of year.

d

Updated 3/4/2013

maturation.

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^b Mass sib refers to the collection and combining of pollen from each plant (sibling) in the group being generated. The mixed pollen is then applied to all flowers in the group.

^C Bleach refers to soaking seed in half-strength household bleach (2.7% sodium hypochlorite). After bleaching, seeds should be rinsed for 15 minutes. For some species, knicking the seed

d coat near the radicle end using a sharp scalpel is recommended after the rinsing step. Besides improving germinaton response, bleaching also helps eliminate pathogens. Germinate at 25°C on blotter paper in plastic boxes.

d Sow in early October, transplant to Speedling trays when large enough, hold in trays until Jan, then transplant to pots. Grow on low benches, shady, sheltered area of greenhouse.