

continued—Table 4. Soil water tension (SWT) as irrigation criteria for other field and vegetable crops as reviewed by Shock and Wang, 2011.

Common name	SWT (cb)	Soil type	Irrigation system or measurement equipment	Soil moisture sensor depth (inches)	Location, season
Corn for grain	50	—	—	—	Utah ⁵
Cucumber	15–30	Fine sand and sandy clay	Drip	8	Piikkio, Finland; spring–summer
Lettuce, romaine	<6.5	Sandy loam	Subsurface drip	12	Maricopa, AZ; fall–winter
Lettuce, leaf	6–7	Sandy loam	Subsurface drip	12	Maricopa, AZ; fall–winter
Lettuce	<10	Red earth	Drip	12	NSW, Australia
Lettuce	20	Clay loam, sandy loam	Sprinkler, drip	6	Las Cruces, NM; summer–fall
Lettuce, romaine	30 ¹	Clay loam	Surface	12	—
Lettuce, crisphead and romaine	50	Sandy loam	Sprinkler	6	Salinas, CA; spring–summer
Radish	35	Silt loam	Drip	8	Luancheng, Hebei Province, China; summer–fall
Radish	20	Sandy clay loam	Control basin and furrow	7	Bangalore, India; winter
Rice	16	Sandy loam	Flood	6–8	Punjab, India; summer–fall
Spinach	9	Sandy loam	Drip	—	Maricopa, AZ
Squash, summer	25 ¹	Loamy sand and sand	Lysimeter	—	Tifton, GA; spring, summer, and fall
Sweet potato	25, then 100 ²	Loamy sand and sand	Lysimeters in rain shelter	9	Tifton, GA; summer
Sweet potato	25–40	Silt loam	Drip	8	Ontario, OR; summer
Tomato	10	Fine sand	Drip	6	Gainesville, FL; spring
Tomato	20	Sand	Drip	6	Coruche, Portugal; spring–summer
Tomato	12–35 ³	Clay	Drip	4–8 ⁴	Federal District, Brazil; fall–winter
Tomato	50	Silt loam	Drip	8	Yougledian, Tongzhou, Beijing, China; summer
Watermelon	7–12.6	Sandy loam	Drip	12	Maricopa, AZ; spring–summer

¹Twenty-five cb or 30 cb was the wettest irrigation criterion tested.

²SWT of 25 cb during plant development, then 100 cb during root enlargement.

³Thirty-five, 12, and 15 cb during vegetative, fruit development, and maturation growth stages, respectively.

⁴Tensiometer depth was 4" during the vegetative growth stage, 6" in the beginning of the fruit development stage, and 8" from thereon until the irrigations were stopped.

⁵Taylor, S.A., D.D. Evans, and W.D. Kemper. 1961. *Evaluating Soil Water*. Utah Agricultural Experiment Station Bulletin 426.

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Published November 2005. Revised March 2013.