

# Typical Seasonal Crop Water Use

For the San Joaquin County and Delta Water Quality Coalition area. Crop water use was calculated using average historical ETo values from CIMIS Station # 42 (Lodi) and #70 (Manteca). California Dept of Water Resources / Univ. of California Basic Irrigation Scheduling (BIS Program)

## Crop water use for a typical season for trees and vines

	Leaf out date -*1	Leaf drop date	ETc (in)-*2
Almond	1-Mar	15-Nov	47.4
Apple	1-Apr	15-Nov	39.3
Olive	1-Jan	31-Dec	31.9
Stonefruit	1-Mar	15-Oct	44.3
Walnut	1-Apr	15-Nov	42.2
Winegrape	1-Apr	1-Oct	24.4

- \*1 Leaf out dates and leaf drop dates are "typical", yours may be different due to many factors-- i.e. variety
- \*2 These are full potential seasonal crop water use values. If deficit irrigation is practiced actual water use will be less. Applied irrigation water to meet crop water use may be less than these values with use of stored soil moisture and in-season effective rainfall. Applied water to meet the crop water use may be more than these values do to irrigation inefficiency.

# Typical Seasonal Crop Water Use Continued

## Crop water use for a typical season for field and row crops

	Plant date- <sup>*3</sup>	Harvest date	ETc (in)- <sup>*4</sup>
Alfalfa (cycle cutting)	1-Jan	31-Dec	50.0
Barley	1-Nov	31-May	17.2
Corn Grain	1-May	10-Sep	24.6
Corn Silage	15-Apr	10-Sep	20.6
Cucumber	1-Apr	15-Jun	12.0
Dry Beans	15-Jun	30-Sep	17.0
Melon	1-Apr	15-Nov	38.5
Oats	1-Nov	15-May	16.9
Onion Dry	1-Mar	1-Oct	43.7
Pasture (Improved)	1-Jan	31-Dec	49.9
Peppers	1-Mar	31-Aug	33.9
Rice	1-May	27-Sep	32.2
Safflower	1-Apr	31-Jul	19.8
Sudangrass	18-Jul	30-Sep	12.5
Sugar Beets	15-Mar	30-Sep	37.7
Sunflower	1-May	10-Sep	23.0
Sweet Potatoes	15-Apr	15-Aug	26.3
Tomato	1-Apr	31-Aug	26.5
Watermelon	1-Apr	15-Nov	39.5
Wheat	1-Nov	31-May	17.5

\*3 Plant dates and harvest or end of season dates are " typical" yours may be different due to many factors-- i.e. variety

\*4 Applied irrigation water to meet crop water use may be less than these values with use of stored soil moisture and in-season effective rainfall. Applied water to meet the crop water use may be more than these values do to irrigation inefficiency