

Crop Water Use by Growth Stage – Potatoes

Weekly ET_{gauge}® Change in Inches

Crop Stage	Kc	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Emergence	0.10	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30
Early Vegetative	0.13	0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.25	0.26	0.27	0.29	0.30	0.31	0.33	0.34	0.35	0.36	0.38	0.39
Vegetative	0.30	0.30	0.33	0.36	0.39	0.42	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75	0.78	0.81	0.84	0.87	0.90
Blossom	0.53	0.53	0.58	0.64	0.69	0.74	0.80	0.85	0.90	0.95	1.01	1.06	1.11	1.17	1.22	1.27	1.33	1.38	1.43	1.48	1.54	1.59
Early Tuber	0.76	0.76	0.84	0.91	0.99	1.06	1.14	1.22	1.29	1.37	1.44	1.52	1.60	1.67	1.75	1.82	1.90	1.98	2.05	2.13	2.20	2.28
Tuberization	0.91	0.91	1.00	1.09	1.18	1.27	1.37	1.46	1.55	1.64	1.73	1.82	1.91	2.00	2.09	2.18	2.28	2.37	2.46	2.55	2.64	2.73
Tuber Bulk	0.85	0.85	0.94	1.02	1.11	1.19	1.28	1.36	1.45	1.53	1.62	1.70	1.79	1.87	1.96	2.04	2.13	2.21	2.30	2.38	2.47	2.55
Tuber Bulk	0.60	0.60	0.66	0.72	0.78	0.84	0.90	0.96	1.02	1.08	1.14	1.20	1.26	1.32	1.38	1.44	1.50	1.56	1.62	1.68	1.74	1.80
Senescence	0.30	0.30	0.33	0.36	0.39	0.42	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.69	0.72	0.75	0.78	0.81	0.84	0.87	0.90
Senescence	0.10	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30
Mature	0.10	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30

This chart can be used with readings from an ET_{gauge}® or other ET reference. First, identify the change in the ET rate across the horizontal row and then identify the current growth stage in the left column. Follow the two columns to the point where they intersect to identify the ET rate to use in your irrigation scheduling. When planning irrigation, account for soil moisture, precipitation, weather conditions, and the ET rate for growth stage of your crop.