

Crop Water Use by Growth Stage – Grain Sorghum



Weekly ET_{gage}® 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
3 Leaves	0.15	0.15	0.17	0.18	0.20	0.21	0.23	0.24	0.26	0.27	0.29	0.30	0.32	0.33	0.35	0.36	0.38	0.39	0.41	0.42	0.44	0.45
5 Leaves	0.31	0.31	0.34	0.37	0.40	0.43	0.47	0.50	0.53	0.56	0.59	0.62	0.65	0.68	0.71	0.74	0.78	0.81	0.84	0.87	0.90	0.93
8 Leaves	0.56	0.56	0.62	0.67	0.73	0.78	0.84	0.90	0.95	1.01	1.06	1.12	1.18	1.23	1.29	1.34	1.40	1.46	1.51	1.57	1.62	1.68
Final Leaf	0.87	0.87	0.96	1.04	1.13	1.22	1.31	1.39	1.48	1.57	1.65	1.74	1.83	1.91	2.00	2.09	2.18	2.26	2.35	2.44	2.52	2.61
Boot	1.10	1.10	1.21	1.32	1.43	1.54	1.65	1.76	1.87	1.98	2.09	2.20	2.31	2.42	2.53	2.64	2.75	2.86	2.97	3.08	3.19	3.30
Half Bloom	1.10	1.10	1.21	1.32	1.43	1.54	1.65	1.76	1.87	1.98	2.09	2.20	2.31	2.42	2.53	2.64	2.75	2.86	2.97	3.08	3.19	3.30
Soft Dough	1.10	1.10	1.21	1.32	1.43	1.54	1.65	1.76	1.87	1.98	2.09	2.20	2.31	2.42	2.53	2.64	2.75	2.86	2.97	3.08	3.19	3.30
Hard Dough	0.84	0.84	0.92	1.01	1.09	1.18	1.26	1.34	1.43	1.51	1.60	1.68	1.76	1.85	1.93	2.02	2.10	2.18	2.27	2.35	2.44	2.52
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_{gage}® 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.

Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.