

Table 1 Estimated Water Use of Corn in Georgia (115-119 day maturity) CREDIT: Dr. Dewey Lee, University of Georgia

Growth Stage	Days After Planting	Inches Per Day	Inches Per Week Equivalent
Emergence and primary root developing	0-7	.03	.21
	8-12	.05	.35
Two leaves expanded and nodal roots forming.	13-17	.07	.49
	18-22	.09	.63
Four to six leaves expanding. Growing point near surface. Other leaves and roots developing.	23-27	.12	.84
	28-32	.14	.98
	33-36	.17	1.19
Six to eight leaves. Tassel developing. Growing point above ground.	37-41	.19	1.33
	42-45	.21	1.48
Ten to twelve leaves expanded. Bottom 2-3 leaves lost. Stalks growing rapidly. Ear shoots developing. Potential kernel row number determined.	46-50	.23	1.61
	51-54	.25	1.75
Twelve to sixteen leaves. Kernels per row and size of ear determined. Tassel not visible but about full size. Top two ear shoots developing rapidly.	55-59	.27	1.89
	60-64	.29	2.03
Tassel emerging, ear shoots elongating.	65-69	.31	2.17
Pollination and silks emerging.	70-74	.32	2.24
	75-79	.33	2.31
Blister stage.	80-84	.33	2.31
Milk stage, rapid starch accumulation.	85-89	.34	2.38
Early dough stage, kernels rapidly increasing in weight.	90-94	.34	2.38
Dough stage.	95-99	.33	2.31
Early dent.	100-104	.30	2.10
Dent.	105-109	.27	1.89
Beginning black layer.	110-114	.24	1.68
Black layer (physiological maturity).	115-119	.21	1.48