

Table 6. Average water use for ALFALFA in inches/day

Temperature F	Use this chart for the first 4 weeks after growth starts in the spring.				Use this chart for the first 3 weeks after 1 st and 2 nd cuttings.				Use this chart for the first 3 weeks after 3 rd cutting.				Use this chart for the weeks not covered by earlier charts for the respective months.				
	1	2	3	4	1	2	3		1	2	3		May	June	July	Aug	Sept
50-59	.04	.05	.06	.07	.06	.07	.09		.05	.06	.09		.07	.09	.09	.09	.07
60-69	.04	.07	.09	.11	.10	.12	.14		.09	.10	.13		.11	.14	.14	.13	.10
70-79	.05	.09	.12	.14	.12	.15	.18		.12	.14	.17		.14	.18	.18	.17	.13
80-89	.06	.11	.15	.18	.14	.18	.22		.15	.18	.21		.18	.22	.22	.21	.16
90-99	.08	.13	.18	.21	.18	.22	.27		.17	.21	.25		.21	.27	.27	.25	.19

Alfalfa growth stages

Table 7. Average water use for WHEAT in inches/day

Week after emergence														
Temperature F	1	2	3	4	5	6	7	8	9	10	11	12	13	14
50-59	.02	.03	.05	.06	.08	.09	.10	.10	.09	.09	.07	.05	.03	.02
60-69	.03	.05	.07	.09	.12	.13	.15	.14	.13	.13	.10	.07	.05	.03
70-79	.04	.07	.10	.12	.17	.17	.19	.19	.18	.17	.13	.10	.07	.04
80-89	.05	.08	.12	.16	.20	.22	.24	.24	.22	.21	.16	.12	.08	.04
90-99	.06	.10	.15	.18	.24	.26	.29	.28	.26	.25	.19	.15	.10	.05

Wheat growth stages

↑ ↑ ↑ ↑ ↑ ↑
 tillering jointing heading early milk early dough hard dough

Table 8. Average water use for SUGAR BEETS in inches/day

Week after emergence																			
Temperature F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
50-59	.02	.02	.03	.04	.06	.06	.07	.08	.09	.09	.09	.09	.09	.08	.07	.07	.07	.05	.05
60-69	.03	.04	.05	.06	.08	.09	.11	.12	.12	.14	.13	.13	.13	.12	.11	.10	.10	.08	.08
70-79	.03	.05	.07	.08	.11	.12	.14	.16	.16	.18	.18	.18	.18	.15	.14	.13	.13	.10	.10
80-89	.04	.06	.08	.10	.14	.15	.18	.19	.20	.22	.22	.22	.22	.19	.17	.16	.16	.13	.12
90-99	.05	.07	.10	.12	.16	.18	.21	.23	.24	.27	.26	.26	.26	.23	.21	.19	.19	.15	.15

Sugar beet growth stages

↑ ↑ ↑
 4-6 leaf 10-12 leaf full cover

Table 9. Average water use for any other crops when at full canopy at different times of the season

Week after emergence																	
Temperature	May 1	2	3	4	Jun 5	6	7	8	Jul 9	10	11	12	Aug 13	14	15	16	Sept 17
50-59	.06	.07	.07	.08	.08	.08	.09	.09	.09	.09	.09	.08	.08	.08	.07	.07	.06
60-69	.09	.10	.11	.11	.12	.12	.13	.13	.13	.13	.13	.12	.12	.12	.11	.10	.09
70-79	.12	.14	.14	.15	.15	.15	.17	.17	.17	.17	.17	.16	.16	.16	.14	.13	.12
80-89	.15	.17	.18	.18	.19	.19	.20	.20	.21	.21	.21	.20	.20	.20	.17	.16	.15
90-99	.18	.20	.21	.22	.22	.22	.24	.24	.25	.25	.25	.24	.24	.23	.21	.19	.18

Source: Data estimates full potential of daily ET per week by Killen, and was placed in the above table by Wright in January 2002.