

CONSUMPTIVE USE RATES FOR ALFALFA  
SANTA ROSA FIELD OFFICE  
ANTON CHICO AREA

MONTH	CU - IN./DAY			CIR - IN/DAY			ACIR - IN/DAY		
	PEAK	MEAN	LOW	PEAK	MEAN	LOW	PEAK	MEAN	LOW
APRIL	—	—	—	—	—	—	—	—	—
MAY	.20	.17	.07	.17	.14	.06	.19	.16	.06
JUNE	.29	.24	.10	.24	.20	.08	.26	.22	.09
JULY	.30	.25	.10	.20	.17	.07	.25	.21	.08
AUG.	.26	.22	.09	.16	.13	.05	.22	.18	.07
SEPT.	.18	.15	.06	.11	.09	.04	.14	.12	.05
OCT.	.10	.08	.03	.05	.04	.02	.07	.06	.02

YEARLY VOLUME AT 100% EFFICIENCY		
CU	CIR	ACIR
33.4"	23.2"	28.3"

Consumptive use studies conducted on alfalfa at Fort Sumner, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season, has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

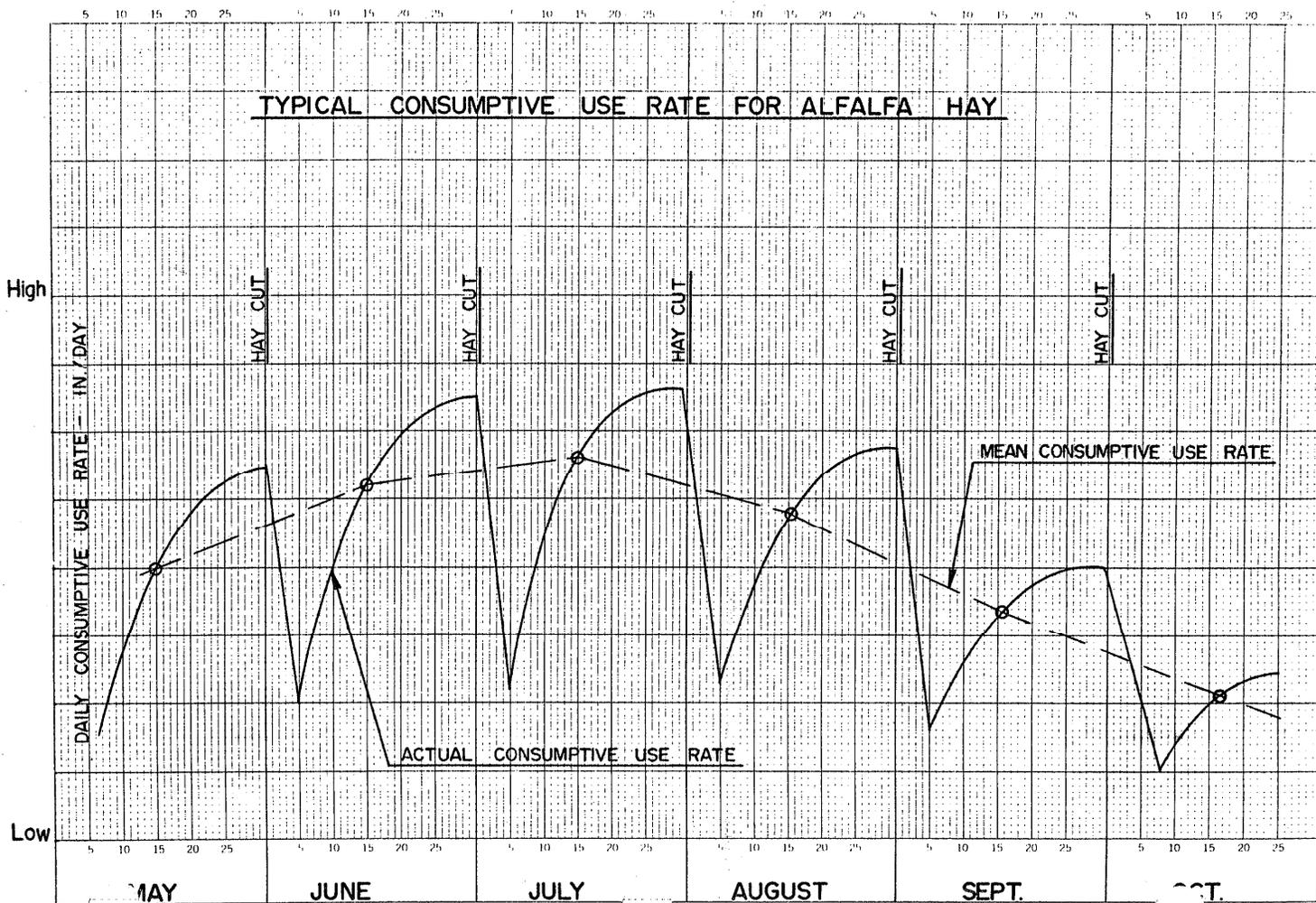
For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

Alfalfa grown for seed production will have a consumptive use value equal to the peak value during full cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay growers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)



CONSUMPTIVE USE REQUIREMENTS

CC-TR21-4/81

for

SANTA ROSA Field Office

ANTON CHICO AREA

CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY	TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
CORN	MAY	.08	.05	.07	26.3	17.3	21.8
	JUNE	.16	.12	.14			
	JULY	.25	.17	.21			
	AUG.	.23	.14	.19			
	SEPT.	.15	.09	.12			
WINTER SMALL GRAIN	SEPT.	.06	—	.03	23.8	15.7	19.7
	OCT.	.08	.04	.06			
	NOV.	.06	.05	.06			
	MAR.	.08	.05	.07			
	APRIL	.14	.12	.13			
	MAY	.20	.17	.19			
	JUNE	.14	.06	.10			
JULY	.02	—	—				
MATURE WINGBEARS	APRIL	.02	—	.01	27.3	16.3	21.8
	MAY	.04	.01	.03			
	JUNE	.10	.06	.08			
	JULY	.19	.11	.15			
	AUG.	.24	.15	.20			
	SEPT.	.22	.16	.19			
	OCT.	.10	.06	.08			