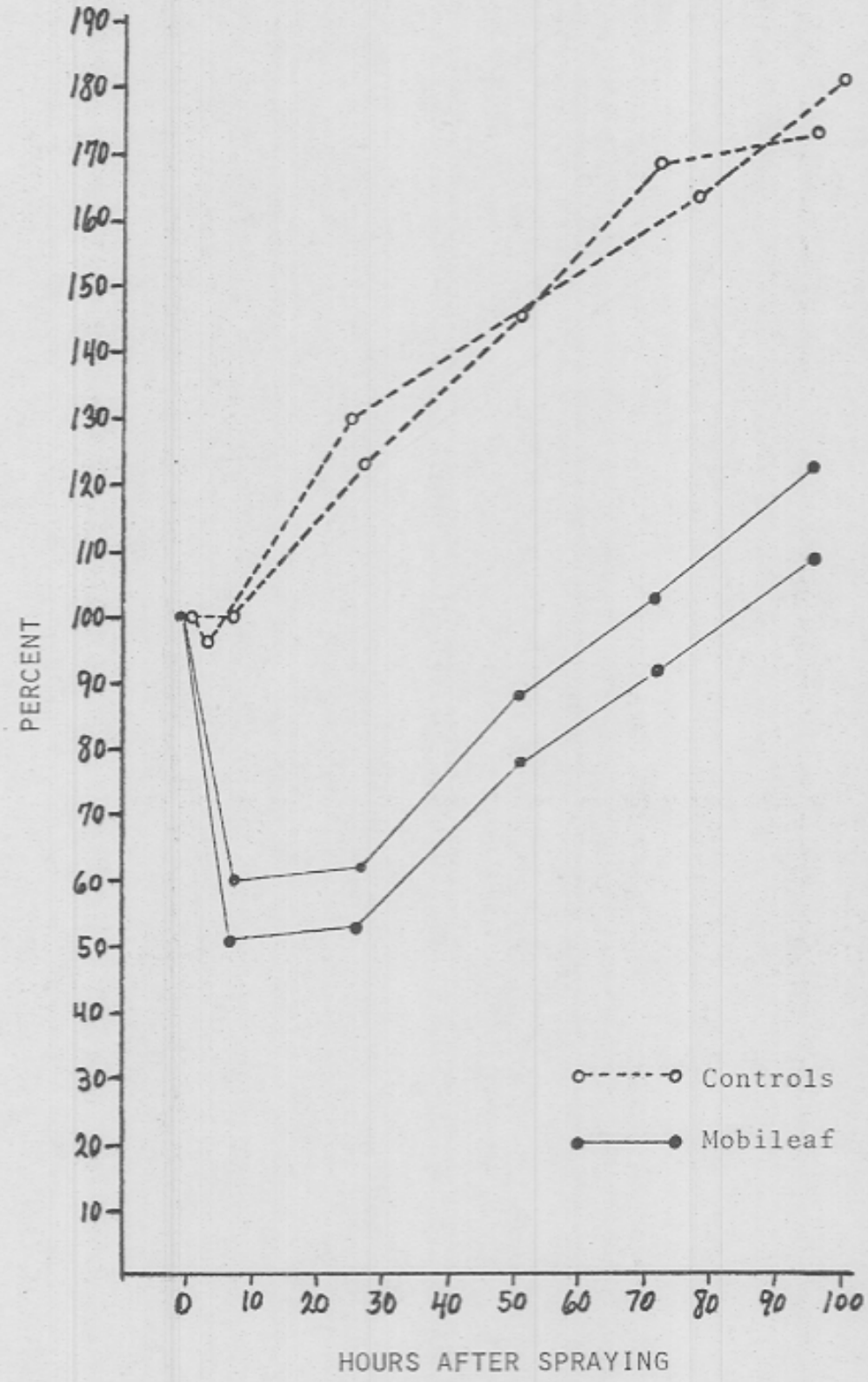


Figure 3. Transpiration of *Agropyron cristatum* plants sprayed with 16.5% Mobileaf, compared to control plants sprayed with distilled water. Rates are expressed as percentages of the rates just prior to spraying (time zero).

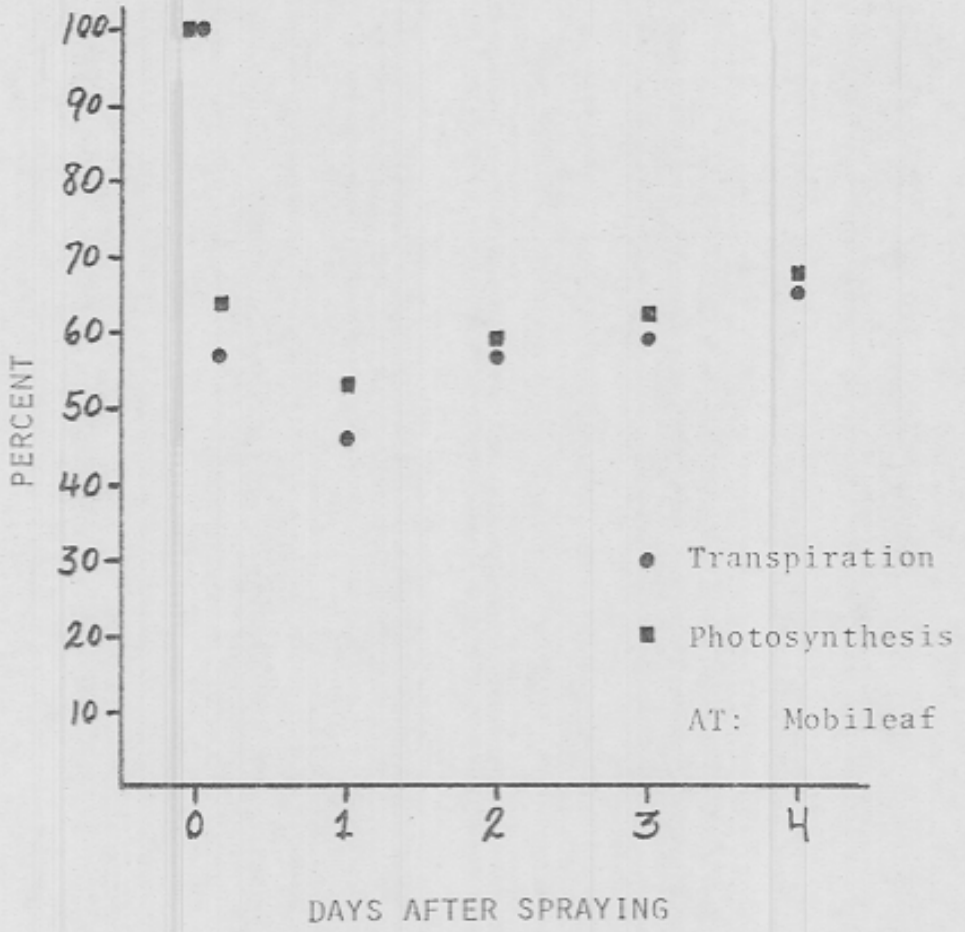


Figure 4. Transpiration and net photosynthesis of *Agropyron cristatum* plants sprayed with Mobileaf (1:5 v/v in distilled water). Rates are expressed as average percentages of the rates of control plants sprayed with distilled water. Each point is the average of two treated plants corrected for the average of two controls.

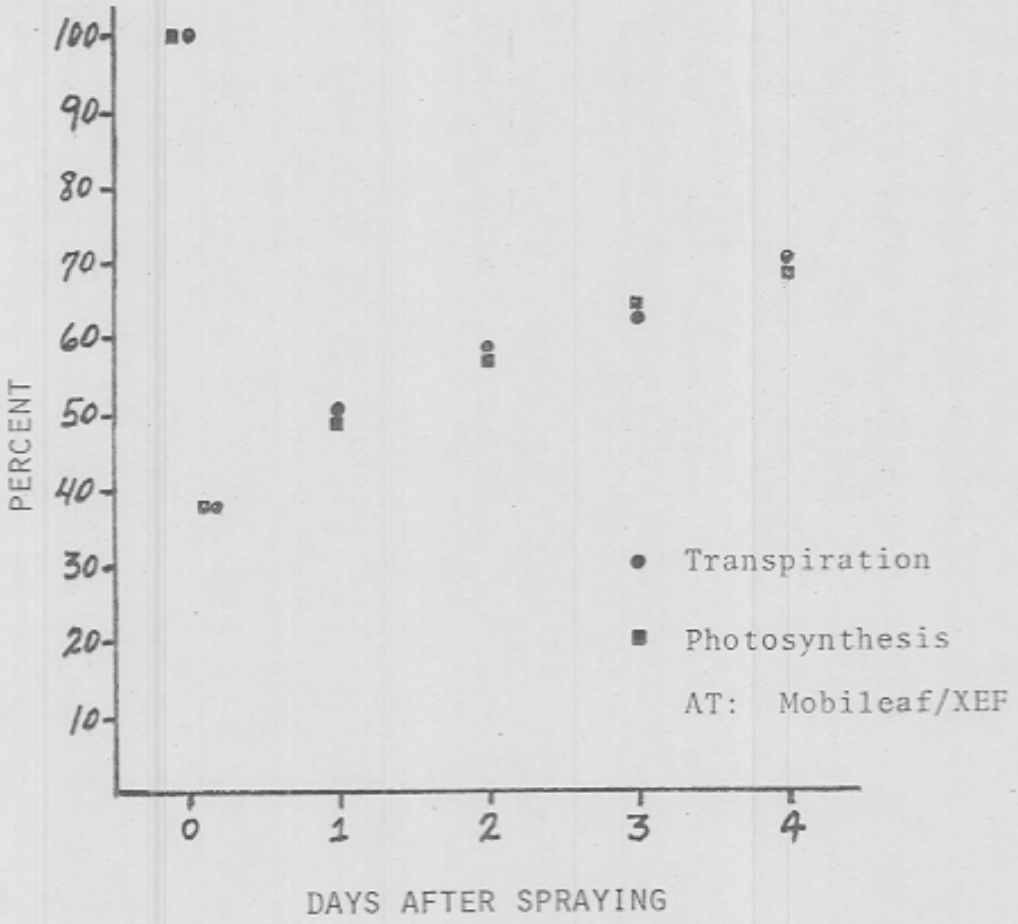


Figure 5. Transpiration and net photosynthesis of *Agropyron cristatum* plants sprayed with a mixture (1:5 v/v) of Mobileaf and 5% XEF-4-3561. Rates are expressed as average percentages of the rates of control plants sprayed with distilled water. Each point is the average of two treated plants corrected for the average of two controls.

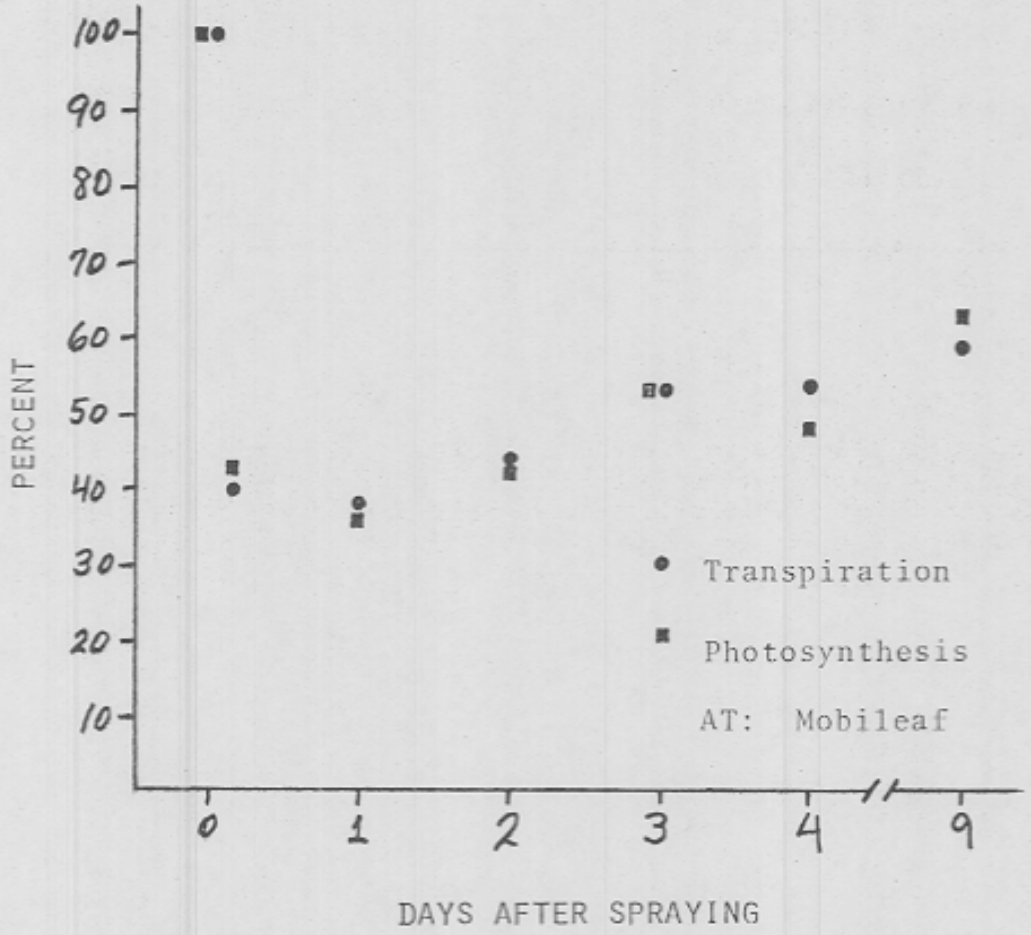


Figure 6. Transpiration and net photosynthesis of *Elymus canadensis* plants sprayed with Mobileaf (1:5 v/v in distilled water). Rates are expressed as average percentages of the rates of control plants sprayed with distilled water. Each point is the average of two treated plants corrected for the average of four controls.

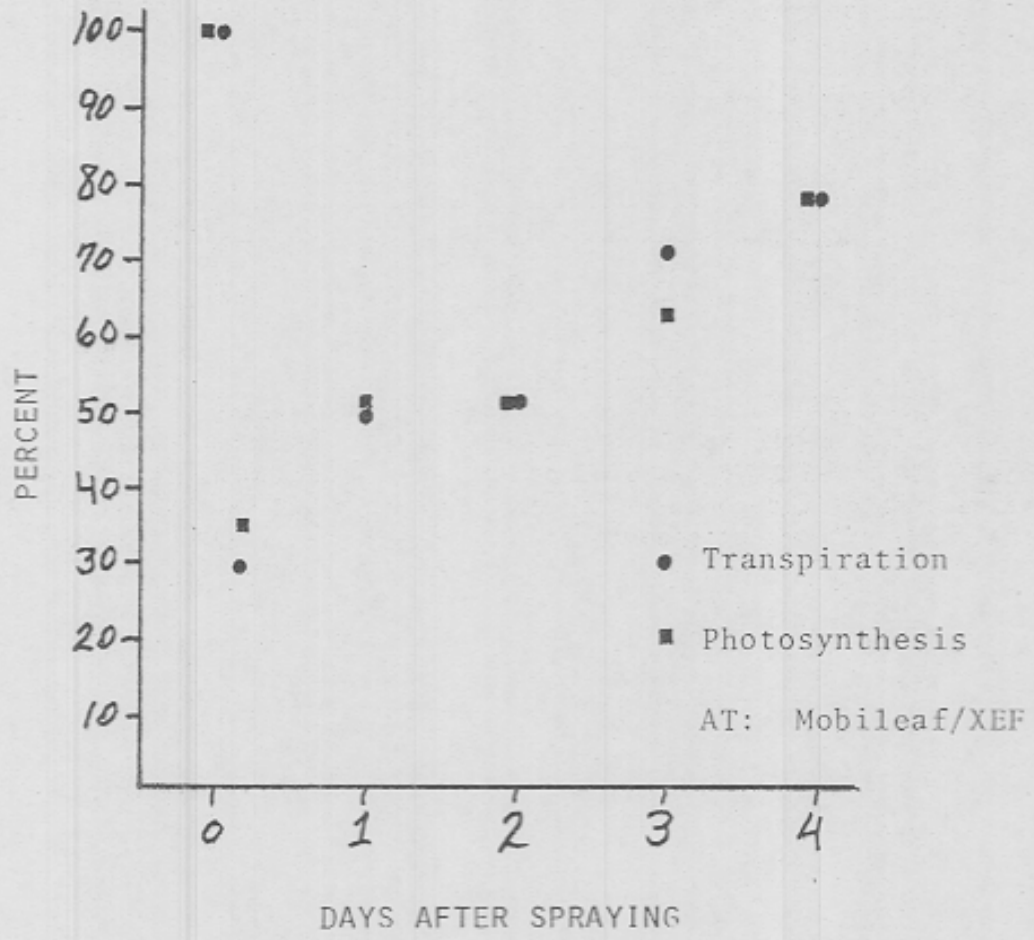


Figure 7. Transpiration and net photosynthesis of *Elymus canadensis* plants sprayed with a mixture (1:5 v/v) of Mobileaf and 5% XEF-4-3561. Rates are expressed as average percentages of the rates of control plants sprayed with distilled water. Each point is the average of two treated plants corrected for the average of four controls.

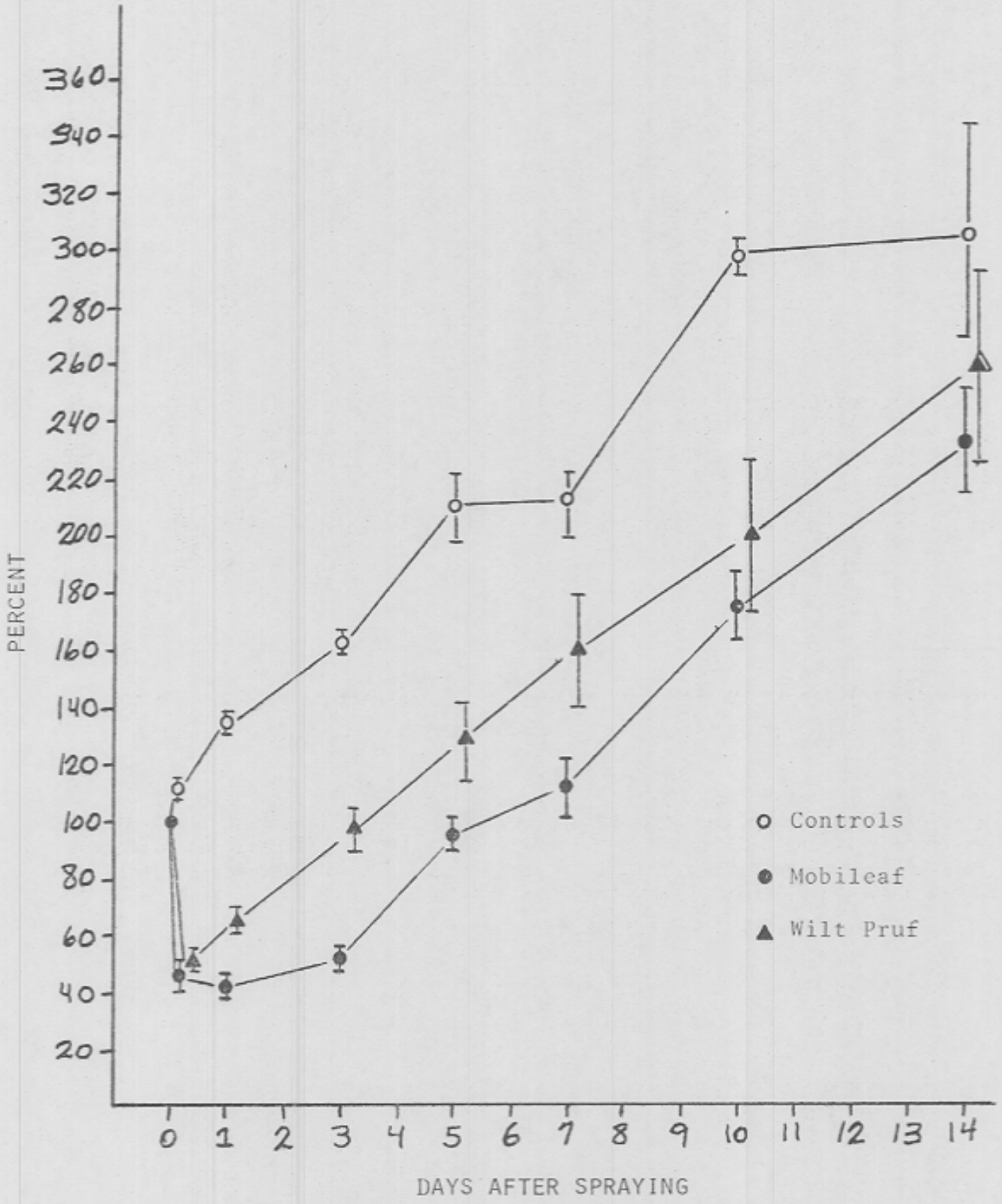


Figure 8. Transpiration of *Melilotus officinalis* plants sprayed with 16.5% Mobileaf, compared to control plants sprayed with distilled water. Rates are expressed as average percentages of the rates just prior to spraying (time zero). Each point is the mean of four plants; the vertical lines indicate standard errors.

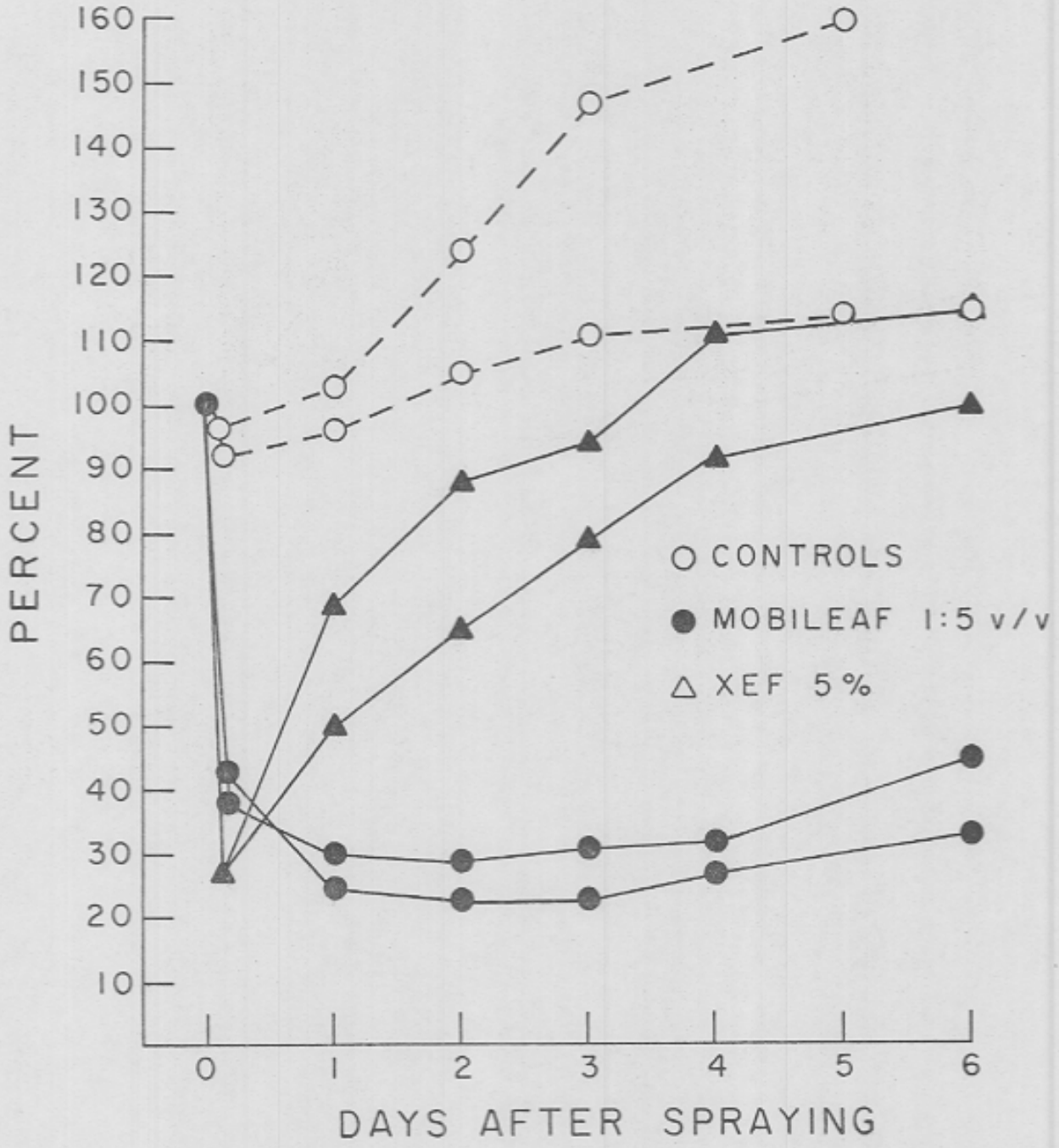


Figure 9. Transpiration of *Tamarix pentandra* plants sprayed with 16.5% Mobileaf or 5% XEF-4-3561. Rates are expressed as percentages of the steady state rates just prior to spraying (time zero).

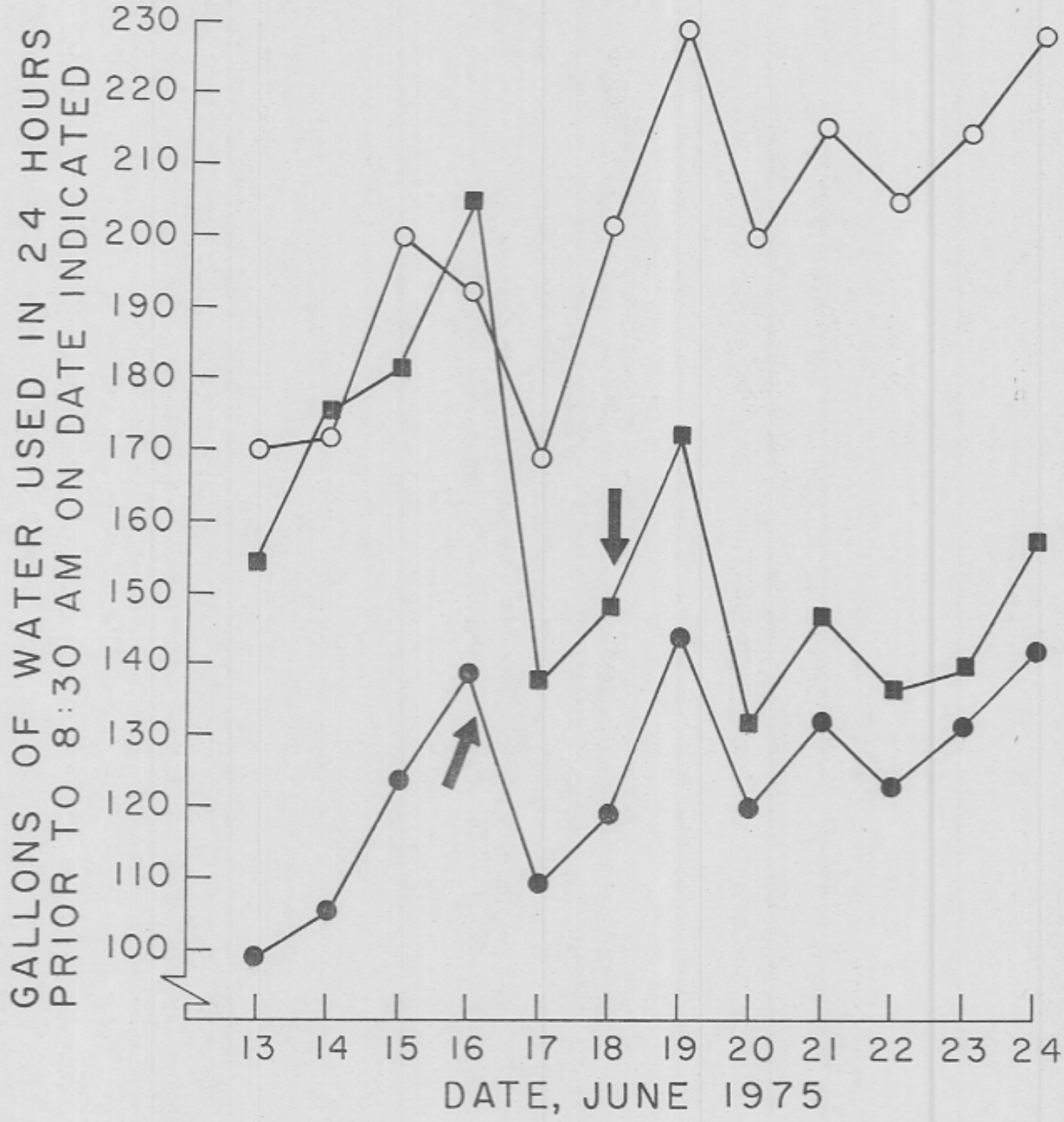


Figure 10. Water consumption on evapotranspirometers 4, 5, and 6 from 13 to 24 June 1975. Arrows indicate application of antitranspirant (see METHODS, Field Studies for Details).

Figure 11. Transpiration of individual branches sprayed with 15% Mobileaf compared to control branches. Rates are expressed as average percentages of the steady state rates measured on the day prior to spraying. Anti-transpirant was applied at time zero. Subsequent measurements were made at the same time of day as original measurements. Branches with "5" as the first numeral were from evapotranspirometer 5, those with "6" from evapotranspirometer 6.

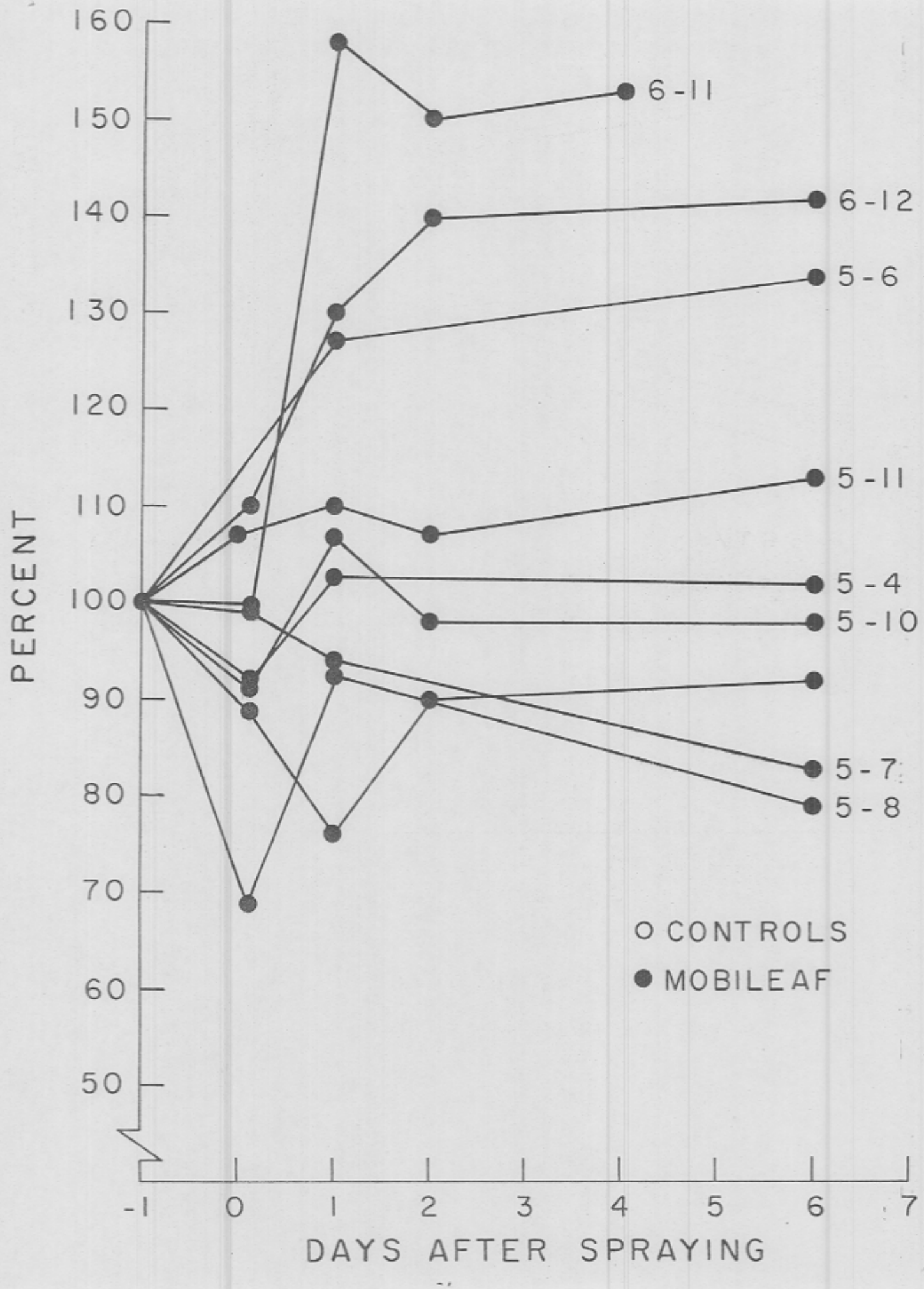
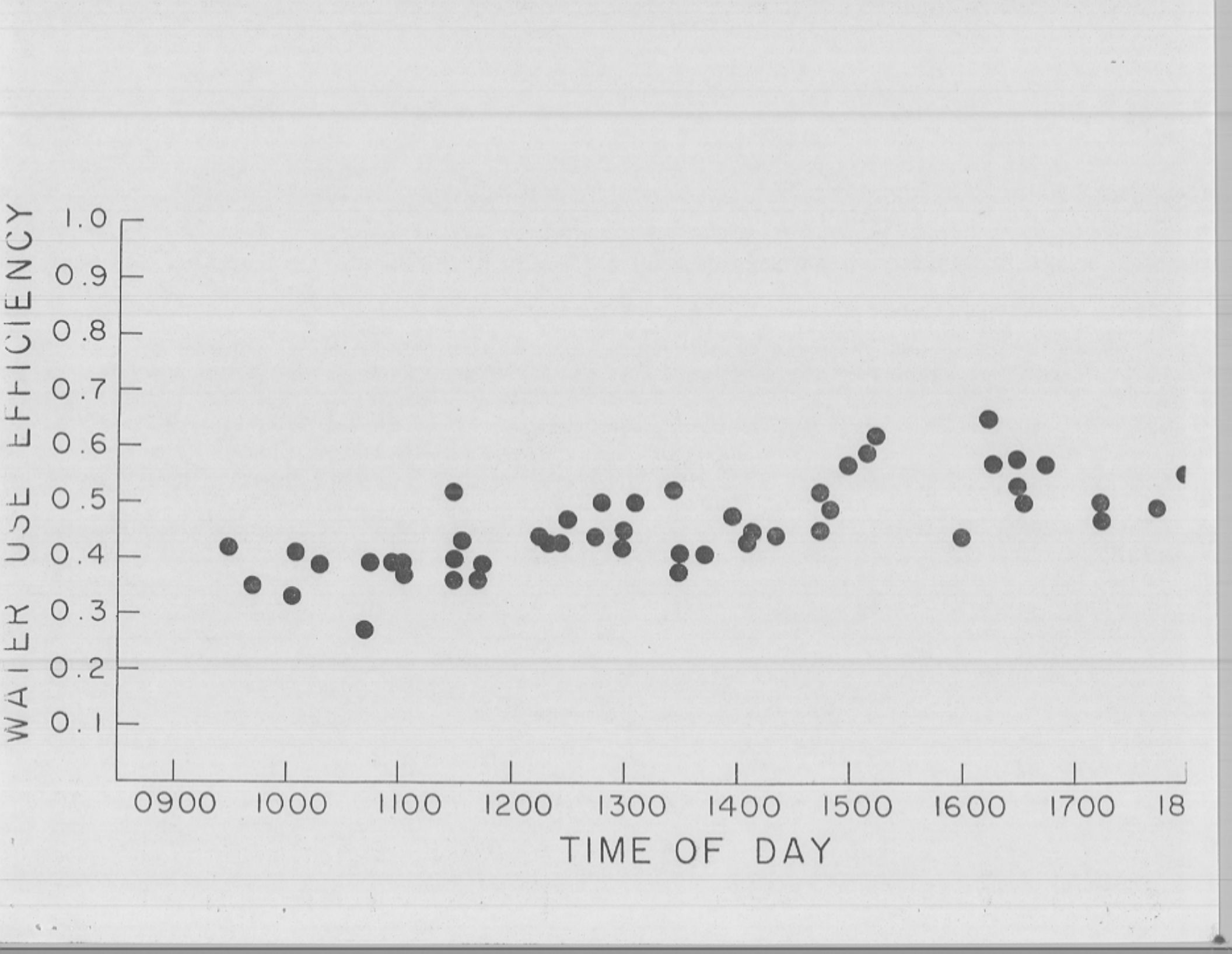

160
150
140
130
120
110
100
90
80
70
60
50
PERCENT
6-11
6-12
5-6
5-11
5-4
5-10
5-7
5-8
O CONTROLS
● MOBILEAF
-1
0
1
2
3
4
5
6
7
DAYS AFTER SPRAYING

Figure 12. Water use efficiency (ratio of photosynthesis to transpiration) as a function of time of day for measurements taken on *Tamarix* branches at Bernardo, New Mexico, June 13-24, 1975.

$$\text{Water Use Efficiency} = \frac{\text{mg } CO_2\text{/g dry wt. leaf-hr}}{\text{g } H_2)\text{/g dry wt. leaf-hr}} \times 10$$


WATER USE EFFICIENCY
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0900
1000
1100
1200
1300
1400
1500
1600
1700
18
TIME OF DAY