

**DETERMINING THE GROSS AMOUNT OF WATER APPLIED  
—SURFACE IRRIGATION**

EXAMPLE NO. 1 Application Rate  
 1.5 ft weir blade, 0.30 ft depth over blade on 5 acres  
 = 0.83 acre inch per hour (from table below)  
 = 0.83 ac in/hr ÷ 5 ac = 0.166 inch per hour

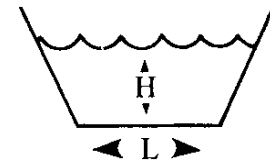
EXAMPLE NO. 2 Total Applied per Irrigation  
 2.0 ft weir blade, 0.40 ft depth over blade on 10 acres for 24 hours  
 = 1.70 acre inches per hour (from table below)  
 =  $\frac{1.70 \text{ ac in/hr} \times 24 \text{ hr}}{10 \text{ ac}} = 4.08 \text{ inches}$

Note: These examples give the *gross* application rate and amount assuming all the water flowing over the weir goes to the field irrigated. The *net* amount of water applied is found by subtracting runoff and deep percolation losses.



**WATER MEASUREMENT OVER A CIPOLETTI WEIR  
Acre Inches per Hour—(Also cfs)  
1 point = .01 ft**

H (ft)	L (ft)		
	1.5	2.0	3.0
.10 (10 points)	0.16	0.213	0.319
.15	0.293	0.319	0.587
.20 (20 points)	0.452	0.602	0.903
.25	0.631	0.842	1.26
.27	0.709	0.945	1.42
.30	0.830	1.11	1.66
.33	0.957	1.28	1.92
.35	1.05	1.39	2.09
.37	1.14	1.52	2.27
.40	1.28	1.70	2.56
.42	1.38	1.83	2.75
.45	1.52	2.03	3.05



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