

Irrigation Calibration & Application Rate Determination

Method 1 : Use this method for water or manure application

To calculate your irrigation rate:

1. Enter Field Area Covered (acres) in **Column 1**
2. Obtain 8-10 identical bucket containers.
3. Set out buckets in towpath of irrigation gun
4. Allow gun to travel at known speed/gear
5. Calibrate bucket, See **Step 1** Below
6. Collect and measure liquid in each separate bucket. Enter in **Column 3**.
7. Determine Collected liquid (inches), **Column 4**: 1 inch / **Column 3**
8. Calculate Applied Rate (**Average of Column 4**) x 27,154. **Enter in Column 5.**

Step 1: Calibrate Bucket

- A. On a level surface, fill one of the buckets to a depth of 1 inch
- B. Pour water from bucket into a measuring cup
- C. Figure out how many cups of water are equal to 1 inch of water in the bucket

Line 1:

1 inch = _____ **Cups** (Write in how many cups it took to fill bucket 1 inch)

Line 2:

1 Cup = _____ **Inches** (To get this value, divide 1 inch by number of cups in line 1)

Field Area Covered (acres)	Bucket Identification (number)	Collected Liquid (cups)	Collected Liquid (inches)	Applied Rate Gal / Ac
1	2	3	4	5
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
Average:				

