# Wheel Line Two Set Method

This method requires the wheel line to be moved so the catchments get a complete overlap.

#### Materials:

Tape

Catchments

Pressure Gauge

Stopwatch (or smart phone)

#### Procedure:

* 1. If possible test with no wind.
	2. Layout catchments in a grid pattern between the sets. The spacing should allow measurement near (5’) the head and between heads. Set out a pattern near the feed, mid-way and near the end. If center fed then do patterns to both ends. Catchments should not be blocked by the crop if testing is done in a planted field. Avoid setting catchments in the wheel track.
	3. Locate the catchments (by number on your sketch).
	4. Run the system long enough to get substantial catch in the center catchments (between set positions). Note that the longer the system is run the more accurate the readings.
	5. Record the pressure at the inlet.
	6. Move the system and run the second set for the same amount of time.
	7. Read the catchments. Sometimes a sprinkler will deposit water directly into a catchment when the system is filling or shutting down. Record, but omit these catchments (high volume) during analysis.

### Sample Pattern

Catchments spacing can be a uniform grid such as 10’ apart.

## Field Data:

|  |  |
| --- | --- |
| Name: |   |
| Site: |   |
| Date: |   |
| Time of Test (ex. 2:00 PM): |  |
| Elapsed Time (minutes): |  |
| Catchment Opening Area (Sq. In.): |  |
| Volume Units: | ❑Milliliters ❑Ounces |
| Sprinkler Make/Model/Nozzle |  |
| Spacing between Sets |  |
| Sprinkler Spacing On Line |  |
| System Length |  |
| Pressure at inlet (psi) |  |

### Field Notes:

(Note wind conditions, system condition, etc.)

## System Diagram (map)

Sketch the wheel line and note where samples were taken.



##  Data:

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