

In-Situ Infiltration Testing

Double Ring Infiltrometers

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In-Situ Infiltration Testing

- Double Ring Infiltrimeters
- Downhole Constant Flow Rate
- Permeameter

In-Situ Infiltration Testing

Double Ring Infiltrometer-Expensive but Accurate

- Requires a Backhoe/Bull dozer
- Water Source-Depending could be significant
- Double Ring Infiltrometer
- Stop Watch



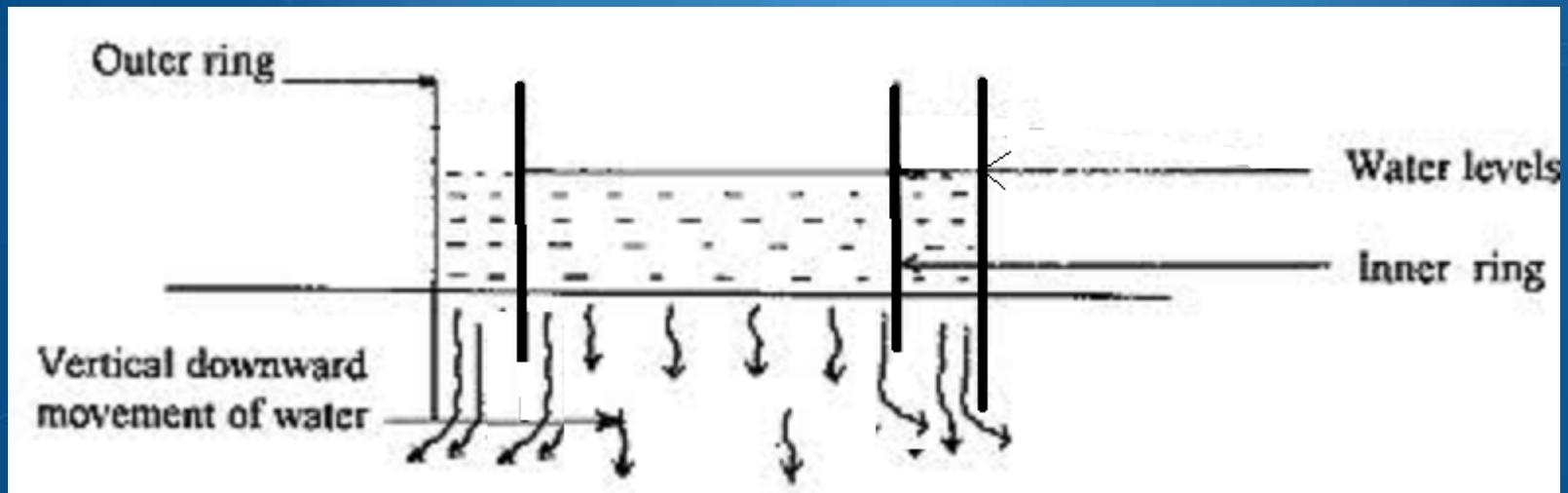
Need a
lot of
power
to push
the ring
into the
ground



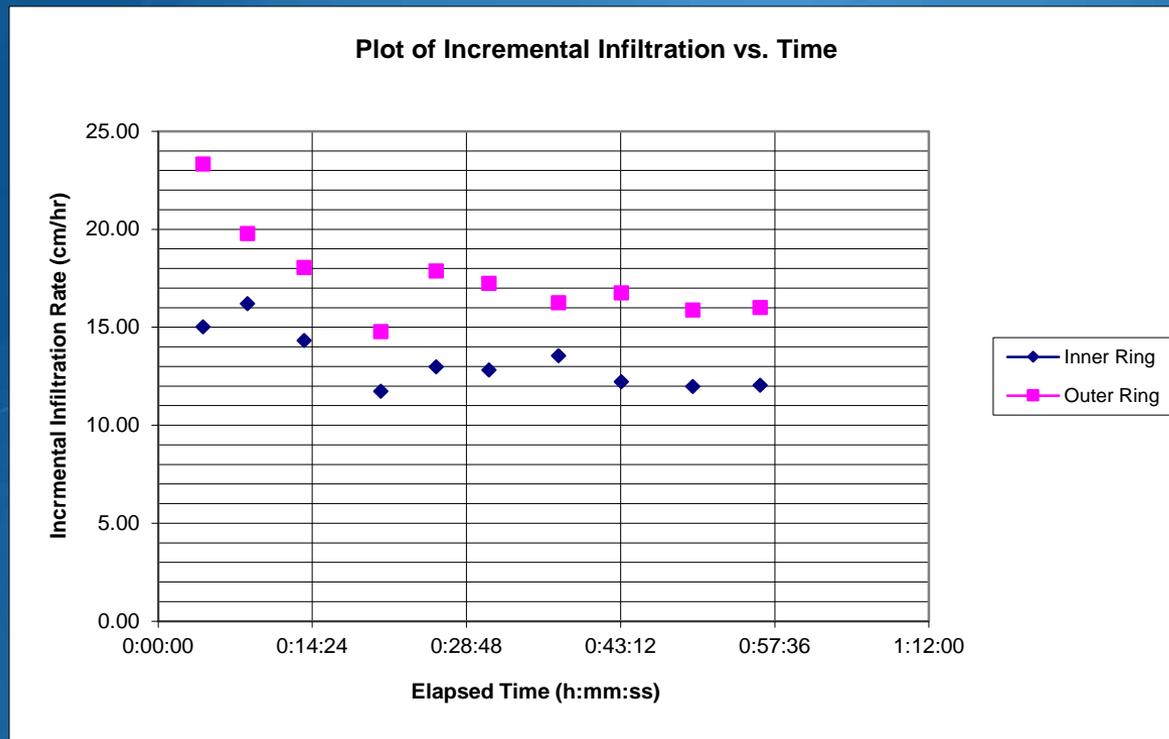




Double Ring Infiltrometer



Results and Interpretation



Results and Interpretation

Table 3: Total Correction Factors Divided into Measured Infiltration Rates

Ratio of Design Infiltration Rates¹	Correction Factor
1	2.5
1.1 to 4.0	3.5
4.1 to 8.0	4.5
8.1 to 16.0	6.5
16.1 or greater	8.5

¹Ratio is determined by dividing the design infiltration rate (Table 2) for the textural classification at the bottom of the infiltration device by the design infiltration rate (Table 2) for the textural classification of the least permeable soil horizon. The least permeable soil horizon used for the ratio should be within five feet of the bottom of the device or to the depth of the limiting layer.

Questions?