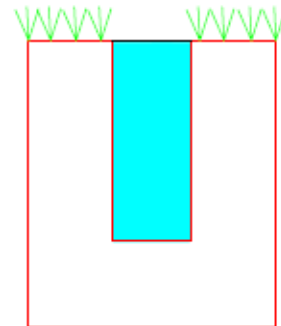
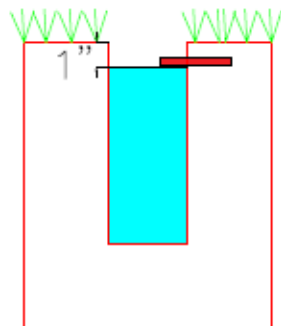


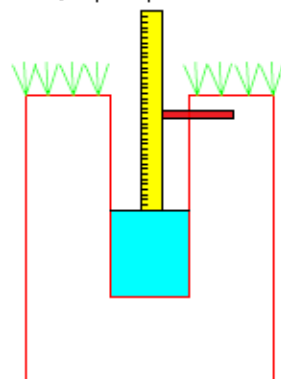
1. Dig a hole in the proposed location, approximately 12 inches in depth and four to six inches in diameter. A standard post hole digger is the typical tool of choice.



2. Presoak the hole. Fill with water to saturate the soil and then let stand until all the water has drained into the soil. If presoak drains away within 1 hour, repeat presoak.



3. Once the water has drained, refill the empty hole again with water so that the water level is about one inch from the top of the hole. Use a stick to indicate the location of the starting water level. Record the time using a watch. Measure the depth of water with a ruler.



4. Check the depth of water with a ruler every hour for at least four hours. If presoak drains within 1 hour, measure every 10 minutes or less.

5. Record Measurements. Depth, d is the difference between measurements. Infiltration Rate is the depth, d divided by the time interval, usually 1 hour. Use the lowest steady state infiltration rate.

Time (hours)	Measurement, m (inches)	Depth, d (inches)	Infiltration Rate, i (inches/hour)
0	0.00	0.00	0
1			
2			
3			
4			
5			
6			

Falling Head Infiltration Test

This is the approved infiltration test for the Virginia Conservation Assistance Program. Use this method for Rain Gardens, Dry Wells and any practice without an underdrain. This is a 3-dimensional flow percolation test, actual vertical infiltration rates may be less, divide the rate by 2 if the failure of the practice will exasperate existing resource concerns or create new ones. Infiltration rates should be greater than 0.5 inches per hour.