

| <b>Method</b>                    | <b>Cost</b> | <b>Ease of use</b> | <b>Accuracy</b> | <b>Reliability</b> | <b>Salt-affected</b> | <b>Stationary</b> |
|----------------------------------|-------------|--------------------|-----------------|--------------------|----------------------|-------------------|
| <b>Gypsum block</b>              | <b>L</b>    | <b>H</b>           | <b>H</b>        | <b>H</b>           | <b>L</b>             | <b>YES</b>        |
| <b>Tensiometer</b>               | <b>L</b>    | <b>M</b>           | <b>H</b>        | <b>M</b>           | <b>L</b>             | <b>YES</b>        |
| <b>Portable tensiometer</b>      | <b>M</b>    | <b>M</b>           | <b>H</b>        | <b>M</b>           | <b>L</b>             | <b>NO</b>         |
| <b>Solid-state tensiometer</b>   | <b>M</b>    | <b>H</b>           | <b>H</b>        | <b>H</b>           | <b>L</b>             | <b>YES</b>        |
| <b>Time domain reflectometer</b> | <b>H</b>    | <b>M</b>           | <b>H</b>        | <b>H</b>           | <b>M</b>             | <b>BOTH</b>       |
| <b>Neutron probe</b>             | <b>H</b>    | <b>L</b>           | <b>H</b>        | <b>H</b>           | <b>L</b>             | <b>YES</b>        |
| <b>Feel (soil probe)</b>         | <b>L</b>    | <b>H</b>           | <b>H</b>        | <b>H</b>           | <b>L</b>             | <b>NO</b>         |
| <b>Gravimetric (oven)</b>        | <b>L</b>    | <b>M</b>           | <b>H</b>        | <b>H</b>           | <b>L</b>             | <b>NO</b>         |
| <b>Conductance</b>               | <b>L</b>    | <b>H</b>           | <b>M</b>        | <b>M</b>           | <b>H</b>             | <b>BOTH</b>       |
| <b>Capacitance</b>               | <b>M</b>    | <b>H</b>           | <b>M</b>        | <b>H</b>           | <b>M</b>             | <b>BOTH</b>       |

H, high; M, medium; L, low

## Weather-based



Ranch System



Atmometer



CIMIS

# Soil-based



resistance



Capacitance



TDR



Neutron probe

tensiometer

