

The Sodium Adsorption Ratio (SAR) can also be calculated using the following equation:

$$SAR = \frac{Na}{\sqrt{\frac{Ca + Mg}{2}}} \quad (1)$$

Where Na, Ca and Mg are sodium, calcium, and magnesium in me/l from the water analysis.

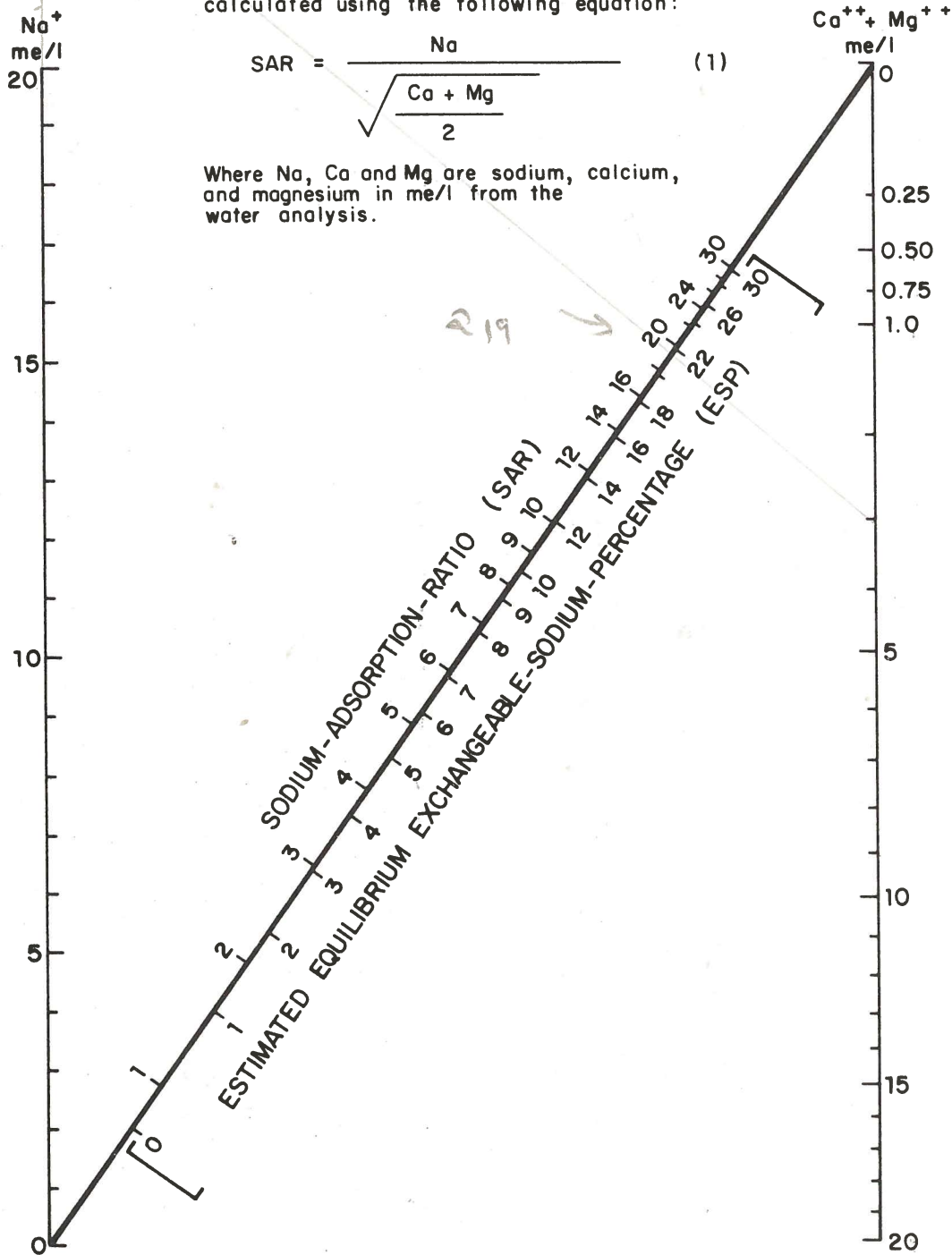


Fig. 1

Nomogram for determining the SAR value of irrigation water and for estimating the corresponding ESP value of a soil that is at equilibrium with the water (Richards 1954)