

## Nutrient Budgeting for Nitrate in Irrigation Water

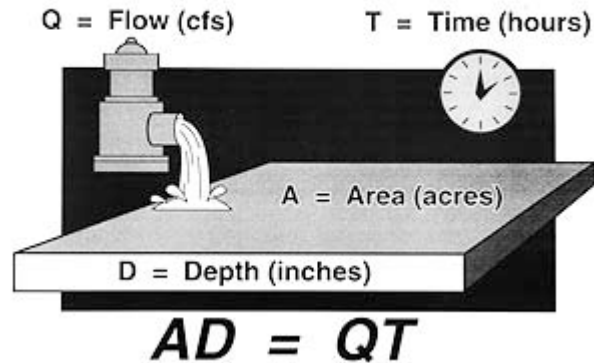
Analyze irrigation water quality periodically, and credit nitrates (NO<sub>3</sub>-N) in water to crop requirements. Nitrate test results can be calculated by simply multiplying parts per million (ppm) NO<sub>3</sub>-N by 2.7 lbs/AF (pounds per acre foot) times the amount of effective water applied (in feet) to the crop, to determine pounds of nitrogen (N) per acre applied in the irrigation water.

Check fields after irrigation to evaluate uniformity of irrigation water applications.

If assistance is needed, contact a qualified crop consultant or irrigation technician to help schedule irrigations and determine the application efficiency of the system.

**Sample Calculation: Irrigation Water N Credit**  
**30 inches of water applied containing**  
**7 ppm NO<sub>3</sub>-N**  
**7 ppm NO<sub>3</sub>-N x 2.7 N/AF**  
**x 30 inches applied/acre**  
**12 inches/AF**  
**= 47.25 lb N per acre**

### Water Applied by Surface Irrigation



When You Know	Divide By	To Find
gallons	27,150	acre-inches
gallons	325,850	acre-feet