

14.3.1 FERTILIZER FORMULAS

Example for Solid Fertilizer: Ammonium sulfate [(NH₄)₂SO₄] fertilizer contains 21% N or 0.21 lbs N/lb of fertilizer. If 100 lbs of ammonium sulfate are applied per acre, the total N application is 21 lbs/acre.

$$\frac{100 \text{ lbs (NH}_4\text{)}_2\text{SO}_4}{\text{ac}} \times \frac{0.21 \text{ lbs N}}{1.0 \text{ lb (NH}_4\text{)}_2\text{SO}_4} = \frac{21 \text{ lbs N}}{\text{ac}}$$

Example for Liquid Fertilizer: Ammonium nitrate liquid fertilizer (AN 20) has a density of 10.76 Lbs/gal, and 21% nitrogen.

$$\frac{10.76 \text{ lbs}}{\text{gal of fertilizer}} \times \frac{0.21 \text{ Lbs N}}{\text{lb of fertilizer}} \times \frac{5 \text{ gal applied fertilizer}}{\text{ac}} = \frac{11.3 \text{ lbs N}}{\text{ac}}$$