

**Table B-5. Composition of Principal Macronutrient Fertilizer Materials**

Material	N Nitrogen (%)	P <sub>2</sub> O <sub>5</sub> Phosphorus (%)	K <sub>2</sub> O Potassium (%)	Mg Magnesium (%)	Ca Calcium (%)	S Sulfur (%)	CaCO <sub>3</sub> Equivalent (lb/ton)
Ammonia, Anhydrous	82						-2960
Ammonium Nitrate	33 to 34						-1180
Ammonium Phosphate Sulfate	13 to 16	20 to 39				13	-1520 to -2260
Ammonium Polyphosphate (APP)	10 to 11	34 to 37					+1000 to 1800
Ammonium Sulfate (Granular)	21					24	-2200
Ammonium Sulfate (Liquid)	8					9	
Ammonium Sulfate Nitrate	26					15	-1700
Ammonium Thiosulfate	12					26	-2000
Calcium Nitrate	15				19		+400
Calcium Sulfate (Gypsum)					23	17	
Diammonium Phosphate (DAP)	18	46					-1400
Limestone, Calcite					32		+1700 to 2000
Limestone, Dolomite				11	22		+1900 to 2160
Magnesium Oxide (Magnesia)				55			
Magnesium Sulfate (Epsom Salt)				10	2.2	14	
Monoammonium Phosphate (MAP)	11	52					-1160
Nitric Phosphates	14 to 22	10 to 22			8 to 10	0 to 4	-300 to -500
Phosphoric Acid		52 to 54					-2200
Potassium Chloride (Muriate)			60 to 63				
Potassium Magnesium Sulfate			22	11		22	
Potassium Nitrate	13		44				-460
Potassium Sulfate			50 to 53			18	
Potassium Thiosulfate			25			17	
Rock Phosphate		30 to 36			33		+200
Sodium Nitrate	16						+580
Sulfur Elemental						32 to 100	
Superphosphate, Concentrated (Triple)		44 to 53			14		-3200
Superphosphate, Normal		16 to 22			20	12	
Urea	45 to 46						-1680
Urea Formaldehydes	35 to 40						-1360
Urea-Ammonium Nitrate Solutions	21 to 49						-750 to -1760

Table B-5. Composition of Principal Macronutrient Fertilizer Materials - continued