Area of Rectangle = (Length)(Width)

Application Rate = Amount Applied / [(Length x Width) / 43,560, sq ft/acre]

Biosolids Applied = (N needed – N other) / Biosolids PAN

Dry Tons, acre = (Wet Tons, acre) (Solids Content, in decimal form)

Liquid flow, gpm = Mass rate, lb/min / (% Total Solids) (8.34 lb/gal)

Mass, lbs = (Volume, gal) (% Total Solids) (8.34 lbs/gal)

Mass, lbs = (Volume, MGD) (Concentration, mg/L) (8.34 lbs/gal)

Metals Loading Rate, lb/acre = (Metal Concentration, mg/kg) (0.002) (Dry Tons Biosolids Applied, acre)

Wet Tons, acre = Dry Tons, acre / Solids Content, in decimal form

Conversion Factors:

1 acre = 43,560 square feet	1 acre - 0.405 hectare
1 acre-inch = 27,000 gallons	1 gallon = 8.34 pounds
1 metric ton = 2,200 pounds	1 metric ton = 1,000 kilograms
1 mile = 5,280 feet	1 pound = 0.454 kg
1 square mile = 640 acres	1 ton = 2,000 pounds
1% = 10,000 mg/kg or	1% = 10,000 ppm
1% = 20 lb/ton	1 mg/kg = 1ppm
1 mg/kg = 0.0001 %	1 mg/kg = 0.002 lb/ton

Abbreviations:

DW   dry weight

EQ   exceptional quality

MPN   most probable number

NRCS   Natural Resource Conservation Service

PAN   plant available nitrogen

TKN   Total Kjeldahl Nitrogen

VAR   vector attraction reduction

VS   volatile solids