

University of Missouri Extension

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Biosolids Index of Publication Titles, Nomenclature and Conversion Factors

Nomenclature and conversion factors

- acre (ac) = 43,560 square feet
- acre-inch (ac. in.) = one inch depth over one acre (27,154 gallons)
- acre-foot (ac. ft.) = one foot depth over one acre (43,560 cubic feet)
- acre-foot of soil = 1,600 to 2,000 tons
- cubic foot (cu. ft.) = 7.48 gallons = 62.4 pounds of biosolids
- cubic yard (cu. yd.) = 27 cubic feet = 1,685 pounds of biosolids
- gallon (gal) = 8.34 pounds of biosolids
- hectare (ha) = 2.47 acres
- kilogram (kg) = 1,000 grams
- kilograms per hectare (kg/ha)
- milligram (mg) = 0.001 grams
- microgram (ug) = 0.000001 gram
- metric ton (mt) = 2,204.6 pounds
- milligrams per kilogram (mg/kg) = parts per million (ppm). A measurement by weight that can be expressed either as a wet weight or dry weight basis.
- micrograms per kilogram (ug/kg) = parts per billion (ppb)
- nanograms per kilogram (ng/kg) = parts per trillion (ppt)
- one pound = 454 grams
- ppm (dry weight) in soil x 2 = pounds per acre for six inch soil depth
- kg/ha x 0.8907 = pounds per acre
- pounds per dry ton x 0.04167 x percent total solids = pounds per 1,000 gal
- mg/kg dry weight x 0.002 = pounds per dry ton
- mg/kg dry weight x 0.0000833 x percent total solids = pounds per 1,000 gal
- mg/kg dry weight x percent total solids ÷ 100 = milligrams per kilogram wet weight
- mg/kg wet weight x 100 ÷ percent total solids = milligrams per kilogram dry weight
- dry tons x 24,000 ÷ percent total solids = gallons
- dry tons x 100 ÷ percent total solids = wet tons
- dry tons x 118.7 ÷ percent total solids = cubic yards

Related MU Extension publications

- WQ421, State and EPA Regulations for Domestic Wastewater Sludge and Biosolids
<http://extension.missouri.edu/p/WQ421>
- WQ422, Land Application of Septage
<http://extension.missouri.edu/p/WQ422>
- WQ423, Monitoring Requirements for Biosolids Land Application
<http://extension.missouri.edu/p/WQ423>
- WQ424, Biosolids Standards for Pathogens and Vectors

- <http://extension.missouri.edu/p/WQ424>
- WQ425, Biosolids Standards for Metals and Other Trace Substances
<http://extension.missouri.edu/p/WQ425>
- WQ426, Best Management Practices for Biosolids Land Application
<http://extension.missouri.edu/p/WQ426>
- WQ427, Benefits and Risks of Biosolids
<http://extension.missouri.edu/p/WQ427>
- WQ428, Activity and Movement of Plant Nutrients and Other Trace Substances
<http://extension.missouri.edu/p/WQ428>
- WQ429, Interpretation of Laboratory Analysis of Biosolids Samples
<http://extension.missouri.edu/p/WQ429>
- WQ430, Crop/Nutrient Considerations of Biosolids
<http://extension.missouri.edu/p/WQ430>
- WQ431, Collection and Storage of Biosolids
<http://extension.missouri.edu/p/WQ431>
- WQ432, Equipment for Off-site Application of Biosolids
<http://extension.missouri.edu/p/WQ432>
- WQ433, Equipment for On-site Land Application of Biosolids
<http://extension.missouri.edu/p/WQ433>
- WQ434, Operating Considerations for Biosolids Equipment
<http://extension.missouri.edu/p/WQ434>

Order publications online at <http://extension.missouri.edu/explore/shop/> or call toll-free 800-292-0969.



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