

AG. WATER QUALITY ACT



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Technical Assistance	Funding Assistance	Important Considerations
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NUTRIENT MANAGEMENT

LIVESTOCK BMP #11



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Description:
Manage all plant nutrients associated with animal manure, commercial fertilizer, legume crops, crop residues and other organic wastes to limit the amount of plant nutrients lost to leaching, runoff and volatilization.

AWQA Minimum Requirements:
Follow the guidelines in UK Extension Publication ID-211 to develop nutrient management plans unless required to follow current NRCS Practice Code 590 (version 2013). Maintain an adopted sequence of crop rotations to utilize nutrients. Take soil tests to determine the pH (buffer), pH (water), phosphorous, potassium, zinc, magnesium, and calcium to optimize plant production. Analyze animal manure for total nitrogen, phosphate, potash, calcium, and magnesium prior to land application to formulate application rates. Phosphorous-based nutrient management plans require annual soil testing. Manage animal manure to prevent degradation of water, soil, and protect public health and safety. Sufficient

land must be available for a disposal area without overloading soils or exceeding crop requirements. Minimize edge-of-field delivery of nutrients. Temporary storage (≤ 90 days) of poultry manure must limit water contact with litter storage area to prevent the migration of nutrients to surface or ground waters.

Recommendations:
Nutrient application rates should be based on soil tests, manure analysis, previous applications, soil characteristics, crops to be grown and projected realistic yield goals. Higher applications than recommended are not profitable and excess nutrients can reach groundwater aquifers or surface streams.

Technical References	Funding Assistance Options	Important Considerations
<u>University Publications</u> • IP-71 Nutrient Management in Kentucky • AGR-165 Agronomics of Manure Use for Crops. • AEN-91 Managing Liquid Dairy Manure. • ID-148 Sampling Animal Manure. • IP-57 Potential for Livestock and Poultry Manure to Provide the Nutrients. • AGR-146 Using Animal Manures as Nutrient Sources. • ID-189 Vegetative Filter Strips for Livestock Facilities. • ID-123 Livestock Waste Sampling and Testing. • AGR-16 Taking Soil Test Samples. • AGR-200 Soil Sampling and Nutrient Management in Horse Pastures. • ID-211 Kentucky Nutrient Management Planning Guidelines. <u>USDA/NRCS Publications</u> • Practice Code 313 Waste Storage Facility. • Practice Code 590 Nutrient Management.	<u>State Cost Share</u> • See your local Conservation District to apply. <u>Kentucky Ag. Development Fund (KADB/KAFC)</u> • Select from available program options. <u>NRCS Environmental Quality Incentives Program (EQIP)</u> • Select from available program options here.	Water Quality Benefit (💧-💧💧💧): 💧 (KEY: 💧=good, 💧💧💧=best: see PLET Model).