

AG. WATER QUALITY ACT



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TECHNICAL ASSISTANCE

FUNDING ASSISTANCE

IMPORTANT CONSIDERATIONS

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](#). 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
<p>University Publications</p> <ul style="list-style-type: none"> 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 <p>USDA/NRCS Publications</p> <ul style="list-style-type: none"> Practice Code 313 Waste Storage Facility Practice Code 590 Nutrient Management 	<p>State Cost Share</p> <ul style="list-style-type: none"> See your local Conservation District to apply. <p>Kentucky Ag. Development Fund (KADB/KAFC)</p> <ul style="list-style-type: none"> Select from available program options here. <p>NRCS Environmental Quality Incentives Program (EOIP)</p> <ul style="list-style-type: none"> Select from available program options here. 	<p>Water Quality Benefit (☹-☹☹☹☹): ☹☹☹☹☹ (KEY: ☹=good, ☹☹☹☹☹=best: see STEPL Model)</p> <p>Wildlife Benefits</p> <ul style="list-style-type: none"> Contact the Kentucky Department of Fish and Wildlife's Habitat Improvement Program on how to improve wildlife habitat with select BMPs (1-800-858-1549).