



Nutrient Management Fact Sheet: **Arkansas**

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Nutrient Management Plans

Topic	Summary
Coverage	<p>Dairy operations with liquid waste management systems and dairy operations with 100 cows or more are required to have a Waste Management Plan under an individual No-Discharge permit. ¹</p> <p>An Arkansas Department of Environmental Quality flow chart on CAFO permit requirements can be found here. Dairy operations may seek coverage under an individual NPDES permit.</p> <p>Producers in Nutrient Surplus Areas (NSA) may be required to have a Nutreint Management Plan in place if land applying litter. Additional information includng a map of the NSA can be found here.</p>
Content	<p>A Waste Management Plan addresses the timing of land application of wastes with respect to the nutrient update cycle of the vegetation. ²</p> <p>According to the NRCS Part 651 Agriculgural Waste Management Field Handbook, the animal waste management system plan should include:³</p> <ul style="list-style-type: none"> - a description of all system components or practices planned, - the sequence and schedule of component installation - the operation and maintenance requirements including a time schedule - engineering design and layout information on location, size, and amounts - nutrient management plans, including an accounting of the nutrients available, crops and fields where applied, and amount and timing of application - biosecurity measures and CAM response plan - information showing the relationship between the AWMS and the other management systems <p>A Nutreint Management Plan shall include: ⁴</p> <ul style="list-style-type: none"> - General site inofmraiton - Applicable permits and certifications - Nutrient application site information - Nutrient application plans - Actual activity records - Operation and maintenance.
Frequency of Updates	Waste Management Plans shall be reviewed by the operator annually.



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Paperwork	Nutrient Management plans must be submitted as part of the individual permit application. ⁵
Planner Qualifications	Waste Management Plans must be prepared by a professional engineer registered in the state of Arkansas, NRCS, the University of Arkansas Cooperative Extension Service, Certified Nutrient Management Planner or a water quality technician of the Arkansas Natural Resources Commission and approved by the Department. ⁶

Manure Storage and Application

Topic	Summary
Storage	<p><u>Structure</u></p> <p>Dairy operations with liquid waste management systems must be constructed in accordance with plans and specifications approved and certified by NRCS, an Arkansas Natural Resources Commission water quality technician, the University of Arkansas Cooperative Extension Service or a professional engineer registered in the state of Arkansas. ⁷</p>
Application	<p><u>Spreading</u></p> <p>Nutrient applicators must be certified to apply nutrients within <u>nutrient surplus areas</u>.</p> <p>Land application of waste/wastewater shall not be undertaken when soil is saturated, frozen, covered with ice or snow, or when significant precipitation is anticipated in the next 24-hours. ⁸</p> <p>Waste/water shall not be applied on slopes with a grade of more than 15% or in any manner that will allow waste to enter the waters of the State. ⁹</p> <p>Waste/wastewater shall not be applied within: ¹⁰</p> <ul style="list-style-type: none"> - 100 feet of streams, including intermittent streams, ponds, lakes, springs, sinkholes, rock outcrops, wells, and water supplies. - 300 feet of extraordinary resources waters. - 50 feet of property lines. - 500 feet of neighboring occupied buildings. <p>Permits may also be obtained for land application sites with a site management plan dealing with the nutrient application rates, the timing of waste application with respect to nutrient uptake, and waste storage and distribution methods. ¹¹</p> <p><u>Testing</u></p> <p>Waste and wastewater to be land applied shall be collected at a minimum of once each year. Soils of each field where liquid animal waste has been land applied shall be sampled and analyzed at least once every five years. ¹²</p>



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Technical Assistance

Topic	Summary
Software Tools	AR producers can calculate annual liquid manure production, check settling basins, and develop NMPs using this state-specific software . Manure Management Planner (MMP) is a software tool created by Purdue University that includes state-specific information for Arkansas farmers to create manure management plans for crop and animal feeding operations.
Guides / Handbooks	AR NRCS nutrient management 590 standard .
Tailored Expert Assistance	Dairy operations with less than 100 cows and a dry waste management system (Dry Stack System) can receive an NMP from the Arkansas Natural Resources Commission (ANRC) as directed through the AR Dairy Recruitment Initiative (ADRI).

Financial Assistance

Topic	Summary
For Farmers	AR NRCS provides assistance through: <ul style="list-style-type: none"> - Environmental Quality Incentives Program (EQIP) - offers financial cost-share assistance to farmers for the adoption of conservation practices and development of nutrient management plans. - Conservation Stewardship Program (CSP), which gives producers financial assistance to implement new conservation management practices and enhancements.

¹ https://www.agriculture.arkansas.gov/wp-content/uploads/2020/05/Dairy_Facilities_Permitting_Requirement_In_Arkansas_20180312v2.pdf

² <https://www.adeq.state.ar.us/water/permits/nodischarge/individual/p-animal.aspx>

³ <https://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=31474.wba>

⁴ https://www.agriculture.arkansas.gov/wp-content/uploads/2020/05/title_22-rules.pdf

⁵ https://www.adeq.state.ar.us/water/permits/pdfs/reg_5_permit_application.pdf

⁶ https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf

⁷ https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf

⁸ https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf

⁹ https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf

¹⁰ https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf

¹¹ https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf

¹² https://www.adeq.state.ar.us/regs/files/reg05_final_150918.pdf