



Nutrient Management Fact Sheet: Oregon

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Nutrient Management Plans

Topic	Summary
Coverage	<p>Animal Waste Management Plans (Nutrient Management Plans) are required under NPDES and Water Pollution Control Facility (WPCF) general permits^{1 2} for CAFOs.</p> <p>While outside the scope of this fact sheet, it is important to be aware that the Agricultural Water Quality Management Act (ORS 568.900 to 568.933) authorizes the Oregon Department of Agriculture (ODA) to develop Agricultural Water Quality Management Area Plans (area plans) throughout the state that each have Area Rules.</p>
Content	<p>Animal Waste Management Plans (AWMP) include:</p> <ul style="list-style-type: none"> - Summary of operation. - Procedures to ensure proper operation and maintenance of storage facilities. - Identification of conservation practices to be implemented, including buffers, setbacks or other practices. - Protocols to land apply manure and process wastewater in accordance with site-specific nutrient management practices. - Descriptions and calculations of manure volumes, nutrient balance and land application areas and frozen soil application procedures (if applicable). - Record keeping and reporting requirements. <p>The AWMP maybe have additional requirements for large CAFOs, including keeping records of inspections of operations with daily, weekly and periodic inspections.</p>
Frequency of Updates	Changes to the AWMP must be submitted to ODA. Certain changes may require public notice. See pages 14 to 16 .
Paperwork	Oregon Department of Agriculture must approve AWMP. Under the NPDES permit, AWMP will be made available for public review at ODA and the appropriate field office, with a public hearing if requested. ³ Annual reports must be submitted to the Oregon Department of Agriculture.
Planner Qualifications	ODA accepts and reviews plans from NRCS-certified CNMP writers.

Manure Storage and Application

Topic	Summary
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Overview	<p>Oregon CAFO general permits (NPDES and WPCF) include different requirements for small, medium and large CAFOs on some elements of the permits.</p>
Storage	<p><u>Structure</u></p> <p>Oregon regulations provide recommended guidelines for the design and operation of animal waste control facilities under NPDES permits. The design, construction, operation, and maintenance of confined animal feeding operations and wastewater control facilities must be in conformance with the guidelines.⁴ The guidelines are specific to:</p> <ul style="list-style-type: none"> - Drainage and Waste Volume Control.⁵ - Collection and storage facilities.⁶ - Conveyance facilities and practices.⁷ - Disposal facilities and practices.⁸ - Incidental control practices.⁹ - Sources of qualified assistance for the design of facilities.¹⁰ <p>Variations from the guidelines on animal feeding operation construction, operation and maintenance under the NPDES permit may be provided by the Department of Agriculture.¹¹</p> <p><u>Storage Length</u></p> <p>Under the Waste Control Facility Guidelines, waste storage lagoons should have sufficient usable capacity to contain the maximum accumulated rainfall and manure runoff from the entire collection area for the maximum expected period of accumulation (assuming lagoons are used to accumulate manure and contaminated drainage water).¹²</p>
Application	<p><u>Spreading</u></p> <p>Liquid manure irrigation systems should be operated according to a predetermined plan to prevent runoff. The field spreading of manure should be uniform in distribution and based on the capacity of the land to retain it.¹³</p> <p>Land application is allowed on frozen soil provided the application does not result in a discharge to surface water or groundwater and does not cause or contribute to a violation of state water quality standards.^{14 15}</p> <p>Vegetated buffers are required when manure or process wastewater applications occur adjacent to any surface water, open tile intake structure, sinkholes, wellheads or other conduits to surface water or groundwater:</p> <ul style="list-style-type: none"> - 100-foot setback with non-vegetated buffers. - 35 feet with vegetated, managed buffers. - Alternatives to the above requirements may be approved by ODA.



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Testing

Soil testing protocols are included in the AWMP, with additional requirements for manure and process wastewater protocols for large CAFOs. Details of the requirements for small, medium and large CAFOs can be found on page 19 of the ODA NPDES CAFO general permit [fact sheet](#).

Technical Assistance

Topic	Summary
Software Tools	<p>Manure Management Planner (MMP) is a software tool created by Purdue University that includes state-specific information for Oregon producers to create manure management plans for crop and animal feeding operations.</p> <p>Oregon Animal Waste Management (ORAWM) is a tool used for developing CNMPs in Oregon.</p> <p>Manure Spreading Advisory (MSA) can help assess if predicted weather conditions are suitable for manure application with an approved Animal Waste Management Plan (AWMP) and CAFO Permit.</p> <p>Nutrient Management Planning Tool (NMPT) is an NMP record keeping and planning tool for Oregon producers.</p>
Guides / Handbooks	<p>OR NRCS provides materials to assist in preparing or reviewing CNMPs:</p> <ul style="list-style-type: none"> - The state's 590 nutrient management standard. - The Waste Storage Period Determination Worksheet is used to calculate the number of days needed to store animal waste during the wet winter months. - The Livestock Manure Storage Assessment Worksheet will calculate a risk level regarding the impact of waste storage on ground and surface waters, as well as a risk rating for yard management. - The Oregon CNMP Checklist will ensure a CNMP meets Oregon CNMP requirements. <p>Oregon State University's (OSU) Extension system published the following materials for dairy manure management assistance:</p> <ul style="list-style-type: none"> - Date, Rate, & Place: The Field Book for Dairy Manure Applicators. - Calculating Dairy Manure Nutrient Application Rates. <p>Oregon Department of Agriculture (ODA) developed a worksheet for operators and their plan writers that lists all of the minimum requirements of an AWMP or NMP.</p>

Financial Assistance



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Summary

OR NRCS provides assistance through:

- 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 [NPDESGeneralPermit.pdf \(oregon.gov\)](#)

² [WPCFPermit.pdf \(oregon.gov\)](#)

³ [NPDESGeneralPermit.pdf \(oregon.gov\)](#)

⁴ https://oregon.public.law/rules/oar_340-051-0020

⁵ https://oregon.public.law/rules/oar_340-051-0055

⁶ https://oregon.public.law/rules/oar_340-051-0060

⁷ https://oregon.public.law/rules/oar_340-051-0065

⁸ https://oregon.public.law/rules/oar_340-051-0070

⁹ https://oregon.public.law/rules/oar_340-051-0075

¹⁰ https://oregon.public.law/rules/oar_340-051-0080

¹¹ https://oregon.public.law/rules/oar_340-051-0025

¹² https://oregon.public.law/rules/oar_340-051-0070

¹³ https://oregon.public.law/rules/oar_340-051-0070

¹⁴ [NPDESGeneralPermit.pdf \(oregon.gov\)](#)

¹⁵ [WPCFPermit.pdf \(oregon.gov\)](#)