



Nutrient Management Fact Sheet: **Hawaii**

Updated FEBRUARY 2022

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Nutrient Management Plans

Topic	Summary
Coverage	CAFOs seeking coverage under an NPDES permit would need to meet federal requirements, including the development of a Nutrient Management Plan.
Content	Nutrient Management Plans (NMP) must: ¹ - Ensure adequate storage of manure, litter, and process wastewater, including procedures to ensure proper operation and maintenance of the storage facilities. - Ensure proper management of mortalities. - Ensure that clean water is diverted from the production area. - Prevent direct contact of confined animals with waters of the United States. - Identify appropriate site-specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the United States. - Identify protocols for appropriate testing of manure, litter, process wastewater, and soil. - Establish protocols to land apply manure or process wastewater in accordance with site-specific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the manure or process wastewater. - Identify specific records that will be maintained to document the implementation and management.
Frequency of Updates	There is not a reference to update frequency requirements, but annual reports are required.
Paperwork	Records must be maintained for five years, and a copy of the NMP must be maintained on-site.
Planner Qualifications	Under the NPDES, annual reports must include a statement indicating whether the current version of the nutrient management plan was developed or approved by a certified nutrient management planner. ²

Manure Storage and Application

Topic	Summary
Storage	<u>Structure</u> Under the NPDES, the production area must be designed, constructed, operated, and maintained to contain all manure and process wastewater,



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	including the runoff and the direct precipitation from a 25-year, 24-hour rainfall event. ³
Application	<u>Spreading</u> Under the NPDES, the NMP must include fields available for land application, including application rates based on the liner approach or the narrative rate approach. Manure may not be applied within 100 feet to any down-gradient surface waters, open tile line intake structures, sinkholes, agricultural well heads or other conduits to surface waters. A 35-foot-wide vegetated buffer or other conservation practice or conditions may replace the 100-foot setback. ⁴ <u>Testing</u> Under the NPDES, manure must be analyzed a minimum of once annually for nitrogen and phosphorus content, and soil analyzed a minimum of once every five years for phosphorus content. ⁵

Technical Assistance

Topic	Summary
Software Tools	Producers can submit NPDES general permits using this online platform . Manure Management Planner (MMP) is a software tool created by Purdue University for Hawaiian farmers to create manure management plans for crop and animal feeding operations.
Guides / Handbooks	Pacific Islands NRCS nutrient management 590 standard .
Tailored Expert Assistance	Any agricultural producer in Hawaii can apply for a conservation plan through the SWCDs and receive free technical assistance.

Financial Assistance

Summary
Qualifying farmers can apply for Farm Ownership and Improvement, Farm Operating, or Micro-Loans to construct or improve essential farm buildings or purchase farm equipment.
Pacific Islands 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.



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¹ <https://www.law.cornell.edu/cfr/text/40/122.42>

² <https://www.law.cornell.edu/cfr/text/40/122.42>

³ <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N/part-412>

⁴ <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N/part-412>

⁵ <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N/part-412>