

Rosetta Stone

A data entry key for existing New Mexico CNMP format and new MMP/CNMP Smart Document format

Tabs where Data is entered into MMP (software)

MMP/CNMP Smart Document, (alterable template)

**SUGGESTED FORMAT OF COMPREHENSIVE
NUTRIENT MANAGEMENT PLAN**

The conservation plan is developed by the landowner/operator for his/her use to record decisions for natural resource protection, conservation, and enhancement.

Decisions and resource information needed during implementation and maintenance of the plan are recorded. The plan narrative and supporting documents provide guidance for implementation and may serve as a basis for compliance with state and federal regulations and/or program funding through federal, state, or local financial support initiatives.

A comprehensive nutrient management plan (CNMP) is to include all land units, on which manure and organic by-products will be generated, handled, or applied, and that the landowner/operator either owns or has decision making authority over.

The following guidance helps to maintain quality and provide appropriate documentation of a plan. The list shows the suggested items to be given to the AFO owner/operator. However, the plan content should be tailored to meet the AFO owner's/operator's needs. The plan document provided to the producer should be a quality document containing meaningful information to the producer.

The CNMP should include the following sections:

- A. Facility Information
- B. Safety and Emergency Action Plan
- C. Objectives and Resource Concerns
- D. Inventory, Analysis and Alternatives
- E. Plan Summary of Decisions
- F. Job Sheets and Specifications
- G. Operation and Maintenance
- H. Recordkeeping
- I. Permits

Greater detail for section content is included:

A. Facility Information

- Name, address, phone number(s) of the AFO "General" page 1
- Name of the owner and operator "General" page 1
- Legal description of AFO "General" "Notes" page 1
- Hydrologic unit code "Fields" page 1
- AU of the facility "Animals" Sec 1.1 and 2.4
- Total acres available for nutrient application owned or leased by the facility "Fields" Sec 6.1
- Date the CNMP was completed "General" page 1

- Name and Signatures of the Client, Certified CNMP Planner, Certified Specialists, Manure and Wastewater Handling and Storage, Land Treatment Practices, Nutrient Management. "Notes" in "General" pages 1,2

B. Safety and Emergency Action Plan

- Phone numbers for fire, ambulance, law enforcement, spill recovery, spill reporting, farm personnel not entered Sec 3.1
- Recovery equipment - what and where not entered Sec 3.1
- Action Plan for fire, personal injury, spills from containment structure, spills during pumping, spills during transport not entered Sec 3.1

C. Objectives and Resource Concerns

- Determine and state future goals and objectives of producer; an increase in herd size or the addition of a solid/liquid separator will change the nutrient balance on the facility. If future goals change the balance of the nutrient budgeting within the next five years, complete the comprehensive nutrient management plan for present and future conditions. not entered Sec.1.1
- State and address resource concerns on facility and land application sites. "Fields" Sec 1.3
- Consider runoff situation on facility; state final destination of drain ditches and canals, even if runoff from irrigation or storm events does not enter these waterways. "Fields" Sec 1.3 and 4.2
- Include 8-digit hydrologic unit code and stream segment the facility is located by; if stream section is water quality limited (TMDL segment), state the water bodies pollutants of concern. "Fields" Sec 1.3 and 4.2
- All environmental sensitive issues and concerns must be addressed in this section (i.e. surface water, bedrock, rock outcrops, wetlands) not entered Sec 1.3

D. Inventory, Analysis and Alternatives

1. Conservation Plan Map
 - Milk barn, holding tank, feed storage not entered Sec 4.1
 - Livestock housing and corrals not entered Sec 4.1
 - Waste structures, lagoon(s), separator(s), solid storage, ditches, buried or surface pipelines, runoff containment, corral slopes, berms not entered Sec 4.1
 - Residences not entered Sec 4.1
 - Property lines, if appropriate; boundary lines of planning unit, field not entered Sec 4.1
 - boundaries, land use and acres for each land unit, appropriate map symbols and legend not entered Sec 4.1
 - Wells and/or well heads not entered Sec 4.1
 - Monitoring wells not entered Sec 4.1
 - Surface waters, surface/subsurface drains (direction of flow) not entered Sec 4.1
 - Title block showing: "Conservation Plan Map", "Prepared with assistance from ___Name___", Name of the conservation district, county and state, map scale, date prepared, North arrow not entered Sec 4.1
 - Include a larger scale map showing a 1-mile radius surrounding facility, including all wells not entered Sec 4.1
2. Soils map "Fields" Sec 4.1
3. NM CNMP Inventory Sheet, or equivalent to include:
 - a. Name and location of facility "General" Sec 1.1
 - b. Production information, including number and species of animals "Animals" Sec 2.4, average weight "Animals" Sec 2.4 number of days in system "Animals" Sec 2.4 phases of production "Animals" Sec 2.4 manure volumes "Animals" Sec 2.3 consistency, location, and timing of the manure produced. The production estimates should include future expansion. "Animals" Sec 2.3
 - c. Roof and / or runoff management not entered in MMP Sec 2.3
 - d. Management of dead animals and veterinary wastes not entered Sec 2.5
 - e. Manure Collection, Storage, Treatment, and Transfer
 - Collection - Identify method of collection, location of the collection points, scheduling of the collection, labor requirements, necessary equipment or structural facilities, and impact that collection has on the consistency of the waste. Report information on maintenance and cleaning of the milking parlor, including cow preparation for

- dairies. "Storage" and "Animals" Sec 2.2 and 2.3
 - Storage - The storage period should be determined by the utilization schedule; the waste management system should identify the storage period; the required storage volume; the type, estimated size, and location of the storage facility; and the impact of the storage on the consistency of the waste. "Storage" and "Animals" Sec 2.3
 - Treatment- include an analysis of the characteristics of the waste before treatment; a determination of the desired characteristics of the waste following treatment; and the selection of the type, estimated size, location. "Storage" and "Animals" Sec 2.3
 - Transfer – include an analysis of the consistency of the waste to be moved, method of transportation, distance between points, frequency and scheduling, and necessary equipment. "Storage" and "Animals" Sec 2.6, 2.7, 2.8
- f. Manure Utilization – Describe how manure is and will be used, which may include as a source of energy, bedding, animal feed, mulch, organic matter, or plant nutrients.
- (1) Land Application
- A complete analysis of utilization through land application includes designing the distribution system and selecting necessary equipment. "Crops, "Analysis", "Equipment" and "Nutrient Management" Sec 6.1 - 6.11
 - A nutrient management plan is to be developed to determine application rates and volumes; selecting the fields; scheduling applications; and sampling manure, soil, water, and plants. "Crops, "Analysis", "Equipment" and "Nutrient Management" Sec 6.1 - 6.11
 - Individual field maps with marked setbacks, buffers, waterways "Fields" and "Nutrient Management" Sec 4.1, 4.2 and 6.2
 - A soil map with appropriate interpretations, such as land capability groupings, woodland suitability groups, pasture and hayland suitability groups, and other interpretive information regarding suitability for specific land uses. "Fields" Sec 4.1 and 4.2
 - Site evaluation "Fields" Sec 4.1, 4.2 and 5.1-4
 - Crop rotation "Crops" Sec 4.1, 4.2 and 5.1-4
 - Crops and yields "Crops and Nut Mgt" Sec 4.1, 4.2 and 5.1-4 and 6.1-11
 - Nutrient uptake "Crops and Nut Mgt" Sec 4.1, 4.2 and 5.1-4 and 6.1-11
 - Expected seasonal application rate and time "Crops and Nut Mgt" tabs Sec 4.1, 4.2, 5.1-4 and 6.1-11
 - Estimated land area requirement "Crops and Nut Mgt" Sec 4.1, 4.2 5.1-4 and 6.1-11
 - Nutrient utilization worksheet "Crops and Nut Mgt" Sec 4.1, 4.2, 5.1-4 and 6.1-11
 - Manure valuation summary "Crops and Nut Mgt" Sec 4.1, 4.2 and 5.1-4 and Sec 6.1-11
 - Irrigation system – describe how cropland is irrigated, including liquid waste application. Set times, frequency of irrigation, available water holding capacity and crop management allowable depletion should be covered. Describe any changes to the irrigation system that may be necessary to address resource concerns. "Fields" Sec 6.12
- (2) Grazing management "Rations" Sec 7.1
- (3) Other Utilization of Manure In addition to land application, explore additional ways that manure is being or could be utilized, including methane generation and feed utilization. "Crops and Nut Mgt" Sec 4.1, 4.2 and 5.1-4 and Sec 6.1-11
- g. Feeding information
- Describe any measures that are or will be used to alter manure nutrient content through feed management such as phytase feeding, milk urea nitrogen testing. "Rations" Sec 7.1
- h. Summary of Recommendations for Alternative Practices

E. Plan Summary of Decisions **not entered in MMP** Sec 1.1

- General
- System Description
- Decision maker's Responsibilities
- Recorded Decisions and Component Installation Schedule – include the appropriate land unit label, official practice name, brief description of the practice, and schedule of practice application in the proper sequence by calendar year

- Production Function Requirements
- Collection Function Requirements
- Treatment Function Requirements
- Storage Function Requirements
- Transfer Function Requirements
- Utilization Function Requirements
- Contingency Plan
- Public Protection
- Closure Plan
- Decision maker acknowledgement

F. Jobsheets and Specifications not entered Sec 2 and 6

- Available job sheets and specifications applicable to the producer's specific planned practices.
- Worksheets developed with producer, such as resource impact summaries, forage inventories, erosion estimates, and cost estimates.

G. Operation and Maintenance not entered Sec 10

1. Reviews and Plan Modifications

- Dates of Review, including person performing the review and recommendations that resulted from the review
- Suggested modifications
- A revision may be necessary because of a change in objectives, size of the unit, livestock numbers, economics, weather conditions, etc.
- Based on the results of implementation, there also may be a need to look at additional alternatives if the results of plan implementation are not solving the identified problems or meeting the landowner's/operator's objectives.

2. Operation and Maintenance Procedures

- List of maintenance items to be done periodically to maintain system.

H. Recordkeeping not entered Sec 9.1

- If a producer is to safely manage and assess his/her CNMP, it is critical he/she maintain a record of activities and the functionality of the system. A recordkeeping plan should be implemented that addresses key elements of the CNMP to aid in the proper application and provide for assessment documentation.
- Where the CNMP is part of a permitting or other regulatory program, it is the responsibility of the producer to maintain any required documentation, including plans and implementation records, and make them available to the regulatory organization, if required.
 - Current soil test results, in accordance with Nutrient Management Code 590.
 - Application records for each manure or commercial fertilizer application event, including:
 - Containment source or type and form of commercial fertilizer.
 - Field(s) where manure or organic by-products are applied.
 - Amount applied per acre.
 - Date of application.
 - Application method and equipment used.
 - Crops planted and planting and/or harvesting dates, by field
 - Manure, lagoon sampling results
 - Records that address manure and wastewater storage containment structures:
 - Dates of emptying, level before emptying, and level after emptying, and discharge or overflow events, including level before and after event.
 - Transfer of manure off-site or to third parties:
 - Manure nutrient content (N, P, K)
 - Amount of manure transferred.
 - Date of transfer.
 - Recipient of manure (name, address, phone)
 - Available maps, sketches and designs resulting from the planning process that will be useful to the producer in implementing the plan
 - Environmental evaluations
 - Monitoring well results
 - Activities associated with emergency spill response plan.
 - Documentation of soils/geologic investigation.
 - As-built plans available onsite.

- Records associated with any reviews by NRCS, third-party consultants, or representatives of regulatory agencies:
 - Dates of review.
 - Name of reviewer and purpose of the review.
 - Recommendations or follow-up requirements resulting from the review.
 - Actions taken as a result of the review.
- Records of maintenance performed associated with operation and maintenance plans.
- Changes made in CNMP.

I. Permits not entered Sec 9.2

- NPDES CAFO
- Groundwater Discharge
- Inspection records
- Operator/manager certification