

STATEMENT OF WORK

Comprehensive Nutrient Management Plan/CAFO Management Plan West Virginia

These deliverables apply to this individual plan. For other planned practice deliverables refer to those specific Statements of Work.

PLANNING

NOTE: A comprehensive nutrient management plan (CNMP) should address all land units that the animal feeding operation (AFO) owner and/or operator owns or has decision-making authority over and on which manure and organic by-products will be generated, handled, stored, or applied.

NOTE: NRCS policy requires that technical assistance provided for conservation planning follow the guidance and processes in the NRCS National Planning Procedures Handbook (NPPH). For the purposes of providing conservation planning technical assistance, Technical Service Providers are to complete the actions required in the first seven Steps of the NPPH planning process. All deliverables below are based on that requirement. For detailed guidance, planners should refer to the appropriate section of the NRCS NPPH (CNMP Technical Guidance).

Deliverables:

1. Provide documentation that addresses the following items:
 - a. Site information
 - i. Names, phone numbers, and addresses of the AFO owner(s) and operator(s).
 - ii. Location of production site: legal description, driving instructions from nearest post office, and the emergency 911 coordinates. (required only for CAFO Management Plan to meet permit requirements)
 - iii. Farmstead sketch identifying roadways, existing production sites, manure or fertilizer storage sites, wells, streams, drainage way, sinkholes, residences, silos, barns, wetlands, existing conservation practices, 25year-24 hour floodplain etc.
 - iv. Plat map or local proximity map that includes location of private or public facilities within 500 feet of the AFO that may be affected by a waste storage structures.
 - v. Emergency action plan as part of the document covering: fire, personal injury, manure storage and handling, and land application operations.
 - vi. Operation procedures specific to the production site and practices.
 - vii. Existing documentation of present facility components that would aid in evaluating existing conditions, capacities, etc. (i.e., as-built plans, year installed, number of animals a component was originally designed for, design capacity of structures to meet discharge requirements etc.).
 - b. Production information
 - i. Animal types, phases of production, and length of confinement for each type at this site.
 - ii. Animal count and average weight for each phase of production on this site.
 - iii. Calculated manure and wastewater volumes for this site.
 - iv. Manure storage type, volume, and approximate length of storage.
 - v. List and locate on a drawing of all required and/or facilitating practices to meet effluent discharge limits for the production areas (required for CAFO Management Plan to meet permit requirements)
 - c. .

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2. Provide documentation of compliance with all applicable permits or certifications
 - a. Federal, State or local permits and/or ordinances for all practices designed or existing including adequate storage capacity of manure/wastewater structures.
 - b. Operator or manager permit (if applicable).
 - i. Record of inspections or site assessments when required by WV DEP.

3. Provide land application site information documentation
 - a. Date plan prepared.
 - b. Aerial maps of land application area.
 - c. Individual field maps with marked setbacks, buffers, and waterways, and environmentally sensitive areas, such as sinkholes, wells, gullies, streams, etc.
 - d. Landowner names, addresses, and phone numbers.
 - e. Legal description of land sites, including watershed codes when required by WV DEP.
 - f. Specific field identification numbering system on legible planning maps to correlate required practices to specific location
 - g. Land use designation.
 - h. Soil map, with appropriate interpretations.
 - i. Documented soil erosion(before and after planned practices) for each management unit, using most current methodology
 - j. Documented risk assessments for potential nitrogen or phosphorus transport from fields. (See Nutrient Management (590) standard)
 - k. Land treatment practices planned, practice specification, location of planned practices and location of applied practices that meet NRCS standards for management units receiving manure/litter and or wastewater application. Practices will be located on a legible aerial photograph at an appropriate scale.

4. Provide manure application plans documentation
 - a. Crop types, realistic yield targets, and expected nutrient uptake amounts.
 - b. Application equipment descriptions and methods of application.
 - c. Expected application seasons, limits due to weather conditions, and estimated days of application per season.
 - d. Estimated application amounts per acre (volume in gallons or tons per acre, and pounds of plant available nitrogen, phosphorous as P205, and potassium as K20 per acre).
 - e. Estimate of acres needed to apply manure generated on this site, respecting any guidelines published for nitrogen or phosphorous soil loading limits.

5. Provide actual activity records
 - a. Soil tests not more than 3 years old.
 - b. Manure test annually for each individual manure storage containment.
 - c. Planned and applied rates, methods of application, and timing (month and year) of nutrients applied. (Include all sources of nutrients, i.e., manure, commercial fertilizers, etc.)
 - d. Current and planned crop rotation.
 - e. Weather conditions during nutrient application.
 - f. General soil moisture condition at time of application (i.e., saturated, wet, moist, dry).
 - g. Actual crop and yield harvest from manure application sites.
 - h. Record of internal inspections for manure system components when required by WV DEP.
 - i. Record of any spill events when required by WV DEP.
 - j. Quantity and nutrient analysis of manure/litter transported off farm and name of recipient.

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6. Document mortality disposal actions
 - a. Plan for mortality disposal.
 - b. Methods and equipment used to implement the disposal plan.
7. Operation and Maintenance requirements

Detailed operation and maintenance procedures for the conservation system, manure or litter holding facility, etc., contained in the CNMP. This would include procedures as calibration of land application equipment, storage facility emptying schedule, and soil and manure sampling techniques, etc.
8. Document the AFO/CAFO owner's/operator's consideration of the six CNMP elements. It is recognized that a CNMP may not contain all six elements; however, they need to be considered by the AFO owner/operator during development of the CNMP, and the owner's and/or operator's decisions regarding each must be documented. These elements are as follows:
 - a. Manure and Wastewater Handling and Storage
 - b. Land Treatment Practices
 - c. Nutrient Management
 - d. Record Keeping
 - e. Feed Management (optional)
 - f. Other Utilization Activities

NOTE: The degree to which each CNMP element is addressed is determined by the General Criteria and must meet the specific criteria provided for each element in the National Planning Procedures Handbook (NPPH), Sections 600.53 and 600.54.

9. CNMP/CAFO Management Plan will contain actions that address water quality and quantity criteria for the feedlot, production area, and land on which the manure and organic by-products will be applied (i.e., as a minimum the plan would address CNMP elements a, b, c, and d listed in item 8 above). This includes addressing soil erosion to reduce the transport of nutrients within or off of a field to which manure is applied. For AFO/CAFO owners and/or operators who do not land apply any manure or organic by-products, the CNMP would address only the feedlot and production areas (i.e., address CNMP elements a, d, and f listed in item 8 above).
10. Document that the CNMP/CAFO Management Plan meets all applicable local, State, and Federal laws and regulations. When applicable, ensure that USEPA-NPDES or West Virginia DEP permit requirements (i.e., minimum standards and special conditions) are addressed.
11. Certify that the CNMP meets requirements of the NRCS Field Office Technical Guide (FOTG) conservation practice standards for all practices contained within it.

Manure and wastewater handling and storage sizing or production area discharge calculations will require certification by a license professional engineer.

Nutrient management certification requires a WV Department of Agriculture certified Nutrient Management Consultant. Land treatment practice to control sheet and rill erosion requires a planner skilled in the use and application of the current soil erosion calculation methodology and supporting conservation practices.

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REFERENCES

- NRCS National Planning Procedures Handbook (CNMP Technical Guidance)
- NRCS Field Office Technical Guide
- NRCS National Engineering Manual
- NRCS National Agronomy Manual
- NRCS Environmental Compliance Handbook
- NRCS Cultural Resources Handbook
- WV National Pollution Discharge Elimination System – General Water Pollution Control Permit (CAFO Management Plan permitting requirements)