

What is a CAFO?

A Confined Animal Feeding Operation is defined by the EPA as. More than the number of animals specified in any of the following categories are in confinement: 1000 slaughter and feeder cattle, 700 mature dairy cattle, 2500 swine weighing over 55 pounds, 10,000 sheep; or 1000 animal units.

Or

More than 300 animal units and pollutants are being discharged into waters of the United States.

What is involved in the CAFO permit process?

- **Site evaluation**
- **Town and County permits**
- **Soil borings**
- **Design plans and certification**
- **Construction site erosion plans**
- **Storm water plans**
- **Cost estimates**
- **Nutrient and manure management planning**
- **Utility mapping**
- **Water distribution systems**
- **Operation and maintenance plans**
- **Environmental assessments**
- **Public hearings**
- **Emergency management plan**

WHAT IS A CROP NUTRIENT MANAGEMENT PLAN?

**IT IS A TOOL TO INCREASE THE EFFICIENCY
OF ALL THE NUTRIENT SOURCES A CROP USES
WHILE REDUCING PRODUCTION COSTS AND
ENVIROMENTAL RISK, ULITIMATELY
INCREASING PROFIT**

MUST COMPLY WITH THE 590 STANDARD

What is the 590 Standard?

The 590 Standard is an USDA-NRCS document that defines the minimum requirements and provides technical guidance on the components of an acceptable nutrient management plan.

KEY COMPONENTS

SITE AND FIELD MAPS

SOIL TESTS AND MANURE SAMPLES

CROP SEQUENCE

REALISTIC YIELD GOALS

SOURCES AND FORMS

SENSITIVE AREAS

RECOMMENDED RATES

RECOMMENDED TIMING

RECORD KEEPING

ANNUAL REVIEW AND UPDATE

First Step

- **Meet with the producer**
- **Gather field information**
- **Gather livestock information**
- **Gather manure handling information**
- **Conduct a site tour**
 - **Take pictures**

SECOND STEP

- **Meet with Dept. of Environmental Quality**
- **Inform them of intent to permit and obtain appropriate paperwork**
 - **Find out exactly what they need**
- **Important to develop a good relationship with them**

THIRD STEP

- **Meet with Land Conservation or appropriate county agency**
- **Gather soils information**
 - **Soils series maps**
 - **Updated conservation plan**
 - **Sensitive areas maps**
- **Gather water resources information**
 - **Check for impaired streams or rivers**
- **Gather local biological environment information**
 - **Endangered or sensitive species**

FOURTH STEP

- **Start the environmental analysis questionnaire**
- **Required by Wisconsin DNR**
- **Used by DNR to evaluate the impacts of the operation on the environment**
- **Includes a project summary, proposed physical changes and effects on the ecological and cultural environment**
- **Can help satisfy the need for a full environmental impact statement**

FIFTH STEP

- **Soil sample all fields in the plan on a 5 acre schedule**
- **Sample all manure sources**
- **Must use a lab that is state approved**

SIXTH STEP

- **Receive and analyze soil and manure samples**
- **Start assembling the plan**
- **Use the format as provided by your DEQ**
- **Use available software i.e. Purdue's Manure Management Planner**
- **Review plan with producer & check for ease of implementation**
- **Make any adjustments**

SEVENTH STEP

- **Deliver to Department of Environmental Quality for review**
- **Attend public hearings**
- **Make any adjustments**

EIGHTH STEP

- **Annual review and update**
 - **Gather spreading info from producer**
 - **Develop annual reports**

ADD UP THE HOURS

1. Gather producer info	5 hours
2. Gather DEQ info	2 hours
3. Gather county info	3 hours
4. Soil sampling	24 hours
5. Assemble nutrient plan	20 hours
6. Deliver to DEQ	<u>2 hours</u>
	56 hour

Additional Time

1. Environmental Assessment	24 hours
2. Phosphorous Indexing fields	<u>6 hours</u>
	30 hours

86 hours Grand Total

Annual Review & Update

1. Gather spreading info	2 hours
2. Develop spreading reports	<u>10 hours</u>
	12 hours

CONCLUSION

- **What is a CAFO?**
- **What's involved in the process**
- **What is a nutrient management plan & it's components**
- **Steps in the process**
 - **Meet with the producer**
 - **Meet with DEQ**
 - **Meet with county agencies**
 - **Environmental analysis (if applicable)**
 - **Soil Sample**
 - **Assemble plan**
 - **Deliver to DEQ**
 - **Annual review and update**
- **Summarized hours & pricing**