# Concentrated Animal Feeding Operations (CAFO) WPDES Permit Program (Ch. NR 243)

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#### What is a CAFO\*?

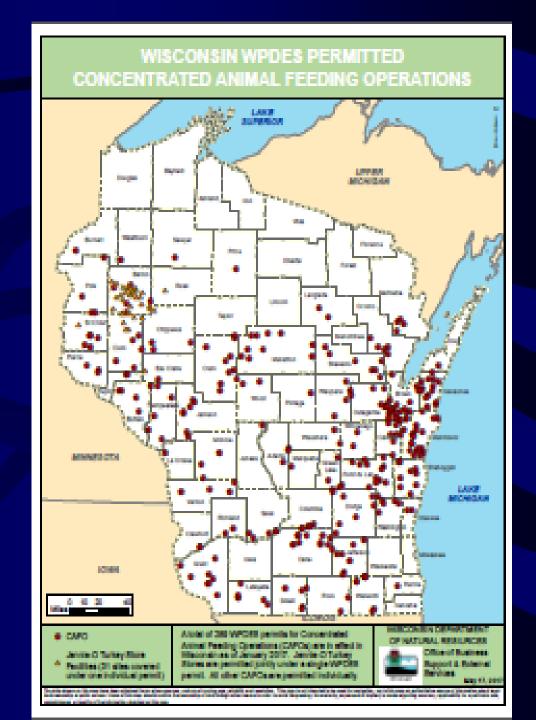
## > 1,000 AU

Require coverage under a WPDES permit

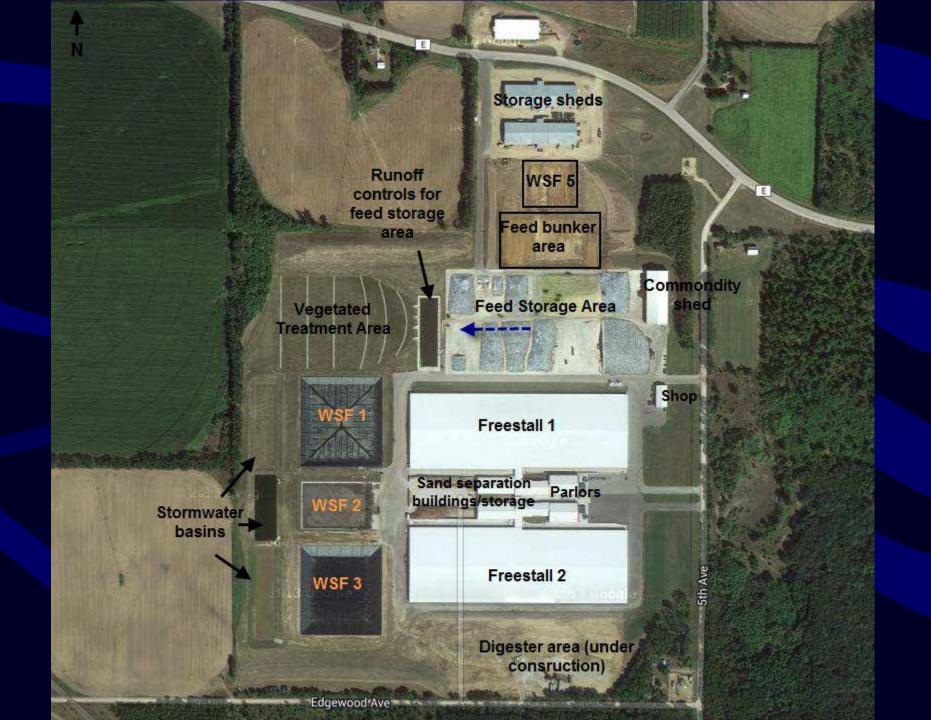
< 1000 AU

May be required to obtain a DNR WPDES permit based on discharges

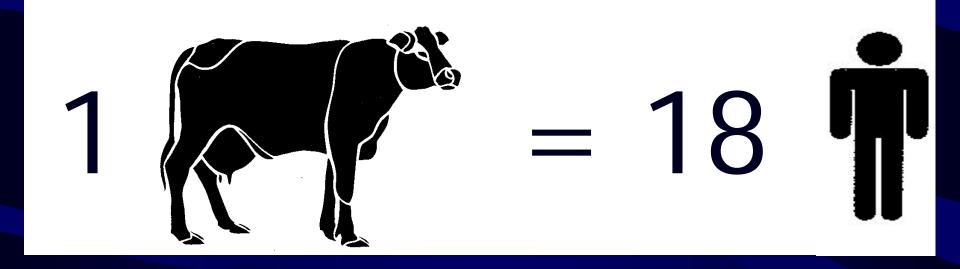
\*Currently 305
CAFOs



ANIMAL TYPE		A. NUMBER OF MIXED ANIMAL UNITS (CURRENT NR 243 EQUIVALENCIES)			B. NUMBER OF NON-MIXED ANIMAL UNITS (FEDERAL EQUIVALENCIES)			
		Equ. Fac.	Number of animals	Equivalent Animal Units	Equ. Fac.	Number of animals	Equivalent Animal Units	
Example- Broilers (non-liquid manure):		.005 x	<b>150,000</b> =	750 AU	.008 x	150,000 =	1200 AU	
DAIRY/BEEF CALVES (under 400 lbs.)		0.2 x =			(Note: Federal numbers in this column comply with 40 CFR s. 122.23.)			
DAIRY CATTLE	Milking and Dry Cows	1.4 x	=		1.43 x	=		
VALILL	Heifers (800 lbs. to 1200 lbs.)	1.1 x =			1.0 x =			
	Heifers (400 lbs. to 800 lbs.)	0.6 x	=		(categories combined: Heifers (400-1200 lbs))			
BEEF	Steers or Cows (400 lbs. to market)	1.0 x	=		1.0 x = (categories combined)			
	Bulls (each)	1.4 x	=					
VEAL CALVES		0.5 x			1.0 x =			
SWINE	Pigs (55 lbs. to market)	0.4 x	=					
	Sows (each)	0.4 x =			0.4 x = (categories combined: swine (55 lbs. to market))			
	Boars (each)	0.5 x	=					
	Pigs (up to 55 lbs.)	0.1 x	=		0.1 x	=		
CHICKE NS	Layers (each)-non-liquid system	0.01 x =			0.0123 x =			
	Broilers/Pullets (each)-non-liquid system	0.005 x =			0.008 x =			
	Layers or Broilers-liquid system	0.033 x	=		0.0333 x	=		
DUCKS	Ducks (each)-liquid system	0.2 x	=		0.2 x	=		
	Ducks (each)-non-liquid system	0.01 x	=		0.0333 x	=		
TURKEYS (each)		0.018 x		=		=		
SHEEP (each)		0.1 x	=	=		=		
HORSES (each)		2.0 x		=		=		
TOTAL ANIMAL UNITS:		TOTAL	MIXED ALL			TOTAL <u>NON-MIXED</u> AU =		
			MIXED AU = rows above)		(enter the single highest number from any row above; do NOT add the totals)			



#### Potential to Pollute



Monroe = 600 cows or 840 AU

1000 AU CAFO\* ~ Wisconsin Rapids\*\*

- \* Annual CAFO WPDES Fee = \$345
- \*\* Annual WPDES Fee = \$23,002

# NR 243 CAFO WPDES Permit Program

Water quality protection permits



- Regulates CAFO manure and process wastewater handling/land application
- NOT a siting program

 Does not address air, odor, noise or traffic issues



#### CAFO WPDES Permit Requirements

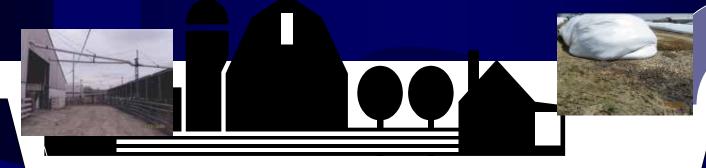
#### Production Area

- "No discharge" of pollutants from <u>animal</u> <u>production areas</u> to <u>navigable</u> waters
- Review of designed structures in production area (e.g., manure storage)

#### Cropped Fields

- Nutrient Management 5 year plan
- How, when, where, amounts manure and process wastewater is land applied
- Winter Spreading Restrictions

# "No Discharge" from Animal Production Area to Navigable Waters



1. Contaminated runoff from 25-yr 24-hr storm

2. Process waste water

(milking center waste, feed storage leachate)

3. Manure

Overflows prohibited, unless 1, 2, and 3 contained



Seepage (allowed, provided no exceedance of groundwater standards)

# CAFO WPDES Permit Requirements

- Monitoring and Reporting
  - Self monitoring
  - Monitoring and Inspection Plan
    - Outlines how and what is monitored
    - Calendar is provided
  - Submittal of annual reports
  - Submittal of NMP updates each year
  - DNR inspections
- Emergency Response Plan

# Processing a WPDES Permit

Operator submits preliminary application (12 months prior to reaching 1000 AU)

- Application forms/site map



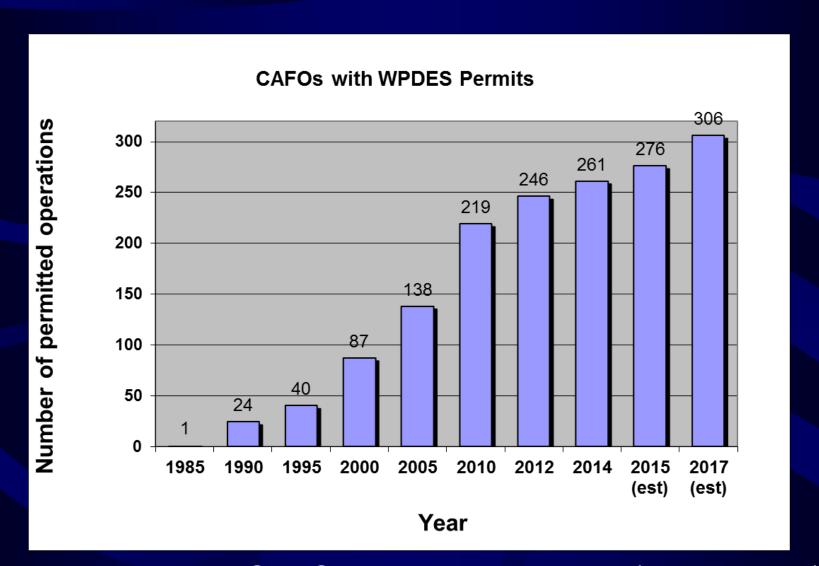
Operator submits final application (6 months prior to reaching 1000 AU)

- Application forms/site map
- Complete Nutrient Management Plan
- Design plans/evaluations for reviewable structures
- 180-day manure storage calculation
- Environmental Analysis questionnaire (if required)



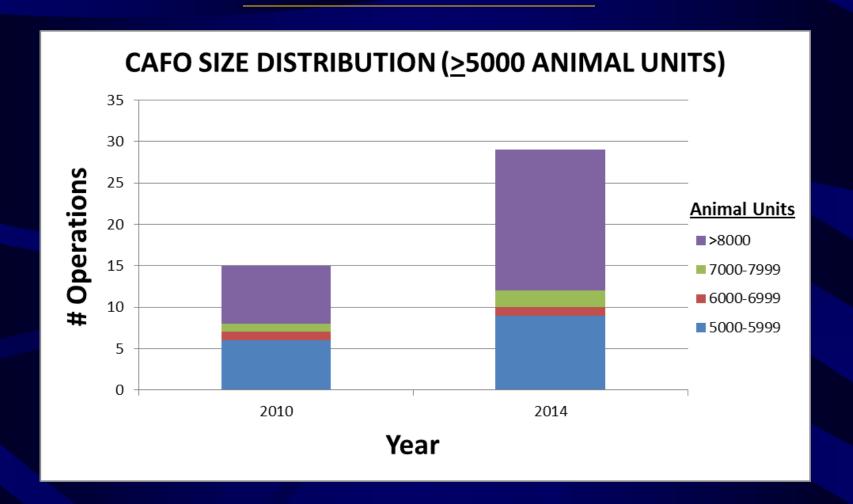
\* In some cases, an Environmental Impact Statement (EIS) may be completed prior to/in conjuction with the permit issuance process

#### Growth Trends in the Livestock Sector



DNR receives ~15 CAFO application per year (mostly dairy)

#### Growth Trends in the Livestock Sector



# Staffing

#### 23.5 staff positions

- 8.5 Central Office
- 15 Regional
- Specialists in NMP, Engineering and Intake

#### **Hot Topics**

- EPA compliance inspection report
- New Technologies and surface water discharges
- Reissuance of the CAFO Large Dairy General Permit
- Staffing levels
- CAFO fees
- Leg Audit Report



#### More Hot Topics

- NR 150 WEPA (Wi Environmental Policy Act)
  - Revised December 2015
- Legal challenges
- Hi cap well issues
  - cumulative effects
- Dairy Business Association Lawsuit
  - Settled in October 2017
- Move to DATCP?

### Technology and Outreach

- Webpage Upgrades
  - General Program Information
  - Specific Information on CAFOs and Permitting
- E Permitting System (Sharepoint)
  - Permit application submittal
  - Public Access
  - Simple modification requests
- Improved permitting and data management
- CAFO Workshops
  - Dodgeville February 8<sup>th</sup>
  - Jefferson February 9th

# **Questions?**