State of Wisconsin Department of Natural Resources
       ANIMAL UNITS CALCULATION WORKSHEET INSTRUCTIONS
       Form 3400-25A   **Rev. 04/07**

This worksheet must be submitted regardless of whether a permit is required.

Notice: Use this worksheet to calculate the number of animal units on your operation, both at the current time and after any proposed expansions planned within the next five years. You are required to complete these calculations to determine if you must apply for a Wisconsin Pollutant Discharge Elimination System (WPDES) permit under NR 243, Wis. Admin. Code. A WPDES permit is required for all livestock/poultry operations that will contain 1,000 or more animal units.

- If you <u>do</u> expect your operation to reach or exceed 1,000 animal units, a permit is required and you must complete and submit an <u>initial</u> Livestock/Poultry Operation WPDES Permit Application consisting of Form 3400-25 at least 12 months prior to reaching the 1,000 animal unit threshold. In addition, you will need to submit other WPDES application materials as part of a complete final permit application at least 6 months prior to reaching the 1,000 animal unit threshold. Please contact your regional DNR contact for more information on what is required as part of a final permit application.

- If you <u>do not</u> expect to reach or exceed 1,000 animal units, a WPDES permit is not required. However, if you have received an Animal Unit Verification Report (Form 3400-181), return it along with this worksheet to your regional DNR contact.

Completing AU worksheet using Microsoft Excel or Word:
1. To begin calculations using Microsoft Excel or Word, double-click on table below. If completing this form by hand see directions below.
    a. For <u>existing</u> operations, enter the current number of each animal type on your operation in the **Current Number** column. Count the highest number of animals on-site at any time during the past year, and include all animals that are part of your operation that are at adjacent locations or under common management.
    b. If you plan to expand within the next five years, also enter your proposed animal numbers in the **Projected Number** column on Page 2.
    c. For brand <u>new</u> operations where there currently aren't any animals present, enter 0 for Total Mixed and Non-Mixed Animal Units on Page 1. On Page 2 enter your proposed animal numbers in the **Projected Number** columns.
    d. Note: For some animal types (for example, dairy cattle and swine), animal categories are combined as part of non-mixed AU calculations.
2. The worksheet will automatically calculate the number of Mixed and Non-Mixed Animal Units (AU) on the operation. If either "Total Animal Units" is 1000 or more, you are required to obtain a WPDES permit.
3. Enter the dates of all proposed expansions, if applicable, within the next five years on Page 2.
4. To quit editing click anywhere outside of the table within the document.

Completing AU worksheet by hand:
1. Print out both pages of this document
    a. For <u>existing</u> operations, enter the current number of each animal type on your operation in the **Current Number** columns**.** Count the highest number of animals on-site at any time during the past year, and include all animals that are part of your operation that are at adjacent locations or under common management.
    b. If you plan to expand within the next five years, also enter your proposed animal numbers in the **Projected Number** columns on Page 2.
    c. For brand <u>new</u> operations where there currently aren't any animals present, enter 0 for Total Mixed and Non-Mixed Animal Units on Page 1. On Page 2 enter your proposed animal numbers in the **Projected Number** columns.
    d. Note: For some animal types (for example, dairy cattle and swine), animal categories are combined as part of non-mixed AU calculations.
2. Multiply the number entered in columns in the projected number by the appropriate equivalency factor to determine the equivalent number of animal units for each animal type.
3. Add all values in column d together. This equals the Total Mixed Animal Units. For column g, enter the equivalent animal unit number from the row with the highest animal unit number in Total Non-mixed AU.
4. If either "Total Animal Units" is 1000 animal units or more, you are required to obtain a WPDES permit
5. Enter the dates of all proposed expansions, if applicable, within the next five years on Page 2.

Animal Unit Calculations: Current Number of AUs on Operation

Animal Type	I. Mixed Animal Units			II. Non-mixed Animal Units		
	b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of Aus
Example - Broilers (non-liquid manure):	0.005 x	**150,000**	= 750	0.008 x	**150,000**	= 1200
Dairy/Beef Calves (under 400 lbs)	0.20 x		=	*Fed.numbers in this column comply with 40 CFR s. 122.23*		
Dairy Cattle Milking & Dry Cows	1.40 x		=	1.43 x		=
Heifers (800 lbs to 1200 lbs)	1.10 x		=			
Heifers (400 lbs to 800 lbs)	0.60 x		=	1.00 x		=
Beef Steers or Cows (400 lbs to market)	1.00 x		=			
Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves	0.50 x		=	1.00 x		=
Swine Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
Pigs (55 lbs to market)	0.40 x		=			
Sows (each)	0.40 x		=			
Boars (each)	0.50 x		=	0.40 x		=
Chickens Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)	0.018 x		=	0.018 x		=
Sheep (each)	0.1 x		=	0.1 x		=
Horses (each)	2 x		=	2 x		=

Total Animal Units:

Total Mixed Animal Units =
(add all rows above)

Total Non-Mixed Animal Units =
(Enter the single highest number from any row above; DO NOT add the totals)

Does operation need a WPDES permit? _____

Animal Unit Calculations: Projected Number of AUs on Operation

Animal Type	I. Mixed Animal Units			II. Non-mixed Animal Units		
	b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of Aus
Example - Broilers (non-liquid manure):	0.005 x	**150,000**	= 750	0.008 x	**150,000**	= 1200
Dairy/Beef Calves (under 400 lbs)	0.20 x		=	*Fed.numbers in this column comply with 40 CFR s. 122.23*		
Dairy Cattle — Milking & Dry Cows	1.40 x		=	1.43 x		=
Dairy Cattle — Heifers (800 lbs to 1200 lbs)	1.10 x		=			
Dairy Cattle — Heifers (400 lbs to 800 lbs)	0.60 x		=	1.00 x		=
Beef — Steers or Cows (400 lbs to market)	1.00 x		=			
Beef — Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves	0.50 x		=	1.00 x		=
Swine — Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
Swine — Pigs (55 lbs to market)	0.40 x		=			
Swine — Sows (each)	0.40 x		=			
Swine — Boars (each)	0.50 x		=	0.40 x		=
Chickens — Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
Chickens — Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
Chickens — Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)	0.018 x		=	0.018 x		=
Sheep (each)	0.1 x		=	0.1 x		=
Horses (each)	2 x		=	2 x		=

Total Animal Units:

Total Mixed Animal Units =
(add all rows above)

Total Non-Mixed Animal Units =
(Enter the single highest number from any row above; DO NOT add the totals)

Does operation need a WPDES permit? _____

Dates of Proposed Expansions (within the next 5 years) **MM/YY** 1_____ 2_____ 3_____