

Agriculture Newsletter *Winter - 2018*



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Cover Crop Workshop

Thursday, February 8th
10:00 am – 2:00 pm

At the Jefferson Conservation District

Located 1/4 mile North of Exit 81 of I-80 on Route 28
in front of the Jefferson County Fairgrounds

This workshop will look at the benefits of cover crops, species options, weed control, minimizing pesticide impacts, and funding opportunities. Guest speakers include Nicole Santangelo of the Penn State Extension, and Brian Ishman, a local farmer and representative of T.A. Seeds.

Pesticide Credits will be offered

(2 Core, 2 Category 01, 18)

Free to attend; lunch provided

Free soil test kits will be available

**To register, please contact the District by
February 6th at
(814) 849 – 7463**

Financial and other support for this project is provided by the Pennsylvania Association of Conservation Districts, Inc. through a grant from the Pennsylvania Department of Environmental Protection under Section 319 of the Clean Water Act, administered by the U.S. Environmental Protection Agency





21st Annual Western PA Grazing Conference

Save the dates! The 21st Annual Western PA Grazing Conference has expanded to a 2-day event this year. It will be held Wednesday, March 21st and Thursday, March 22nd, 2018 at the Trinity Point Church of God in Clarion, PA. Keynote Speakers include Teddy Gentry, of Bent Tree Cattle Co., also known as the Guitarist from the Country Music Group, Alabama, and Greg Judy, of Green Pasture Farms, and author of “No Risk Ranching”. Cost is \$45.00 to attend for either day, or \$85.00 to attend both days (which includes a bonus evening session with Greg Judy on March 21st). Checks can be made payable to Headwaters RC&D Council. A continental breakfast and a hot buffet lunch is included both days.

To register by the March 14th deadline, contact Headwaters RC&D Council at (814) 503 – 8653 or visit their website, www.headwaterspa.org.



Sustainable Backyard Workshop

On March 3rd, 2018, the Pennsylvania Bureau of Forestry will host “Making the Most of Your Piece of Nature” at Butler County Community College in Butler, PA. This free workshop will offer information on sustainably managing your land and increasing the environmental benefits it provides. Area experts will present on birds, wildflowers, invasive species, and more. Local non-profits and service providers will also be on hand to share resources available to help you. The workshop will be from 8am-12:30pm in the Succop Theater. Registration and a full agenda can be found at yourpieceofnature.eventbrite.com, or feel free to call 724-238-1200 for more information.



CHEMSWEEP Program

Jefferson County is among the 19 counties in 2018 in which agricultural businesses and pesticide applicators can dispose of unwanted pesticides safely and easily through the Department of Agriculture’s CHEMSWEEP Program.

Each pesticide inventory received from farmers or other licensed applicators will be verified by a Pennsylvania Department of Agriculture (PDA) inspector. PDA will then work with a waste disposal contractor to schedule the collections, which usually take place from July through October. CHEMSWEEP will cover the cost of the first 2,000 pounds per participant.

How to Participate:

Complete the CHEMSWEEP registration form and return to the address shown on the form by **February 28, 2018**. Registration forms can be accessed through <http://www.agriculture.pa.gov>. For more information, contact James Cunningham at (717) 772—5210.



Using the Manure Application Rate Tables in your Manure Management Manual

If you're still unsure how to use the manure application rate tables in the back of your manure management manual, here is a step by step guide to help you determine how much manure and fertilizer can be applied on your fields using these example charts.

STEP 1:

Determine if you'll be using the *Nitrogen Based* or *Crop Phosphorus Removal Based* Charts. Use the Nitrogen Based Charts if your soil tests show less than 200 ppm Phosphorus in your fields. Use the Crop Phosphorus Removal Based Charts if your soil tests show greater than 200 ppm Phosphorus, or no soil tests are available for your fields.

STEP 2:

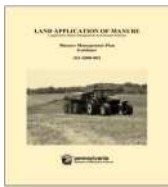
Find the manure group you plan to apply at the top of the page

Liquid Dairy									
Nitrogen Based Manure Application Rates									
Corn Grain	Yield Groups (bu/A)								Manure Application Rate Adjustment For each 1000 gal/A less than the rate in the table, apply lbs. N fertilizer listed below.
	100-130		131-160		161-190		191-220		
	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	
Manure Application Method									
Spring Incorporation within 1 day	8000	0	10000	0	12000	0	14000	0	14
Spring Incorporation within 1 week	11000	0	14000	0	16000	15	16000	45	10
Spring No Incorporation	16000	20	16000	50	16000	80	16000	110	6
Fall	16000	20	16000	50	16000	80	16000	110	6
Winter with cover crop	5000	55	5000	85	5000	115	5000	145	11
Winter No cover crop	5000	80	5000	110	5000	140	5000	170	6
Corn Grain after Alfalfa	Yield Groups (bu/A)								For each 1000 gal/A less than the rate in the table, apply lbs. N fertilizer listed below.
	100-130		131-160		161-190		191-220		
	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	
Manure Application Method									
Spring Incorporation within 1 day	4000	0	5000	0	6000	0	8000	0	14
Spring Incorporation within 1 week	5000	0	7000	0	9000	0	11000	0	10
Spring No Incorporation	9000	0	13000	0	16000	0	16000	20	6
Fall	9000	0	13000	0	16000	0	16000	20	6
Winter with cover crop	4000	0	5000	15	5000	35	5000	55	11
Winter No cover crop	5000	20	5000	40	5000	60	5000	80	6
Corn Grain after Soybeans	Yield Groups (bu/A)								For each 1000 gal/A less than the rate in the table, apply lbs. N fertilizer listed below.
	100-130		131-160		161-190		191-220		
	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	
Manure Application Method									
Spring Incorporation within 1 day	5000	0	6000	0	8000	0	9000	0	14
Spring Incorporation within 1 week	7000	0	9000	0	11000	0	13000	0	10
Spring No Incorporation	13000	0	16000	0	16000	20	16000	40	6
Fall	13000	0	16000	0	16000	20	16000	40	6
Winter with cover crop	5000	15	5000	35	5000	55	5000	75	11
Winter No cover crop	5000	40	5000	60	5000	80	5000	100	6
Corn Silage	Yield Groups (ton/A)								For each 1000 gal/A less than the rate in the table, apply lbs. N fertilizer listed below.
	17-21		22-25		26-29		30-33		
	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	
Manure Application Method									
Spring Incorporation within 1 day	9000	0	11000	0	14000	0	16000	0	14
Spring Incorporation within 1 week	13000	0	16000	0	16000	35	16000	65	10
Spring No Incorporation	16000	40	16000	70	16000	100	16000	130	6
Fall	16000	40	16000	70	16000	100	16000	130	6
Winter with cover crop	5000	75	5000	105	5000	135	5000	165	11
Winter No cover crop	5000	100	5000	130	5000	160	5000	190	6
Corn Silage after Alfalfa	Yield Groups (ton/A)								For each 1000 gal/A less than the rate in the table, apply lbs. N fertilizer listed below.
	17-21		22-25		26-29		30-33		
	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	
Manure Application Method									
Spring Incorporation within 1 day	5000	0	6000	0	8000	0	9000	0	14
Spring Incorporation within 1 week	7000	0	9000	0	11000	0	13000	0	10
Spring No Incorporation	13000	0	16000	0	16000	20	16000	40	6
Fall	13000	0	16000	0	16000	20	16000	40	6
Winter with cover crop	5000	15	5000	35	5000	55	5000	75	11
Winter No cover crop	5000	40	5000	60	5000	80	5000	100	6

STEP 3:

Find the crop group you plan to apply manure on in the left column

Continued on next page



Using the Manure Application Rate Tables in your Manure Management Manual *continued*

STEP 4:
Locate your application method in the left column

STEP 5:
Find the expected yield for your crop at the top of the page

STEP 6:
Follow the arrows to determine the maximum application rate for your fields

Corn Silage	Yield Groups (ton/A)								Manure Application Rate Adjustment For each 1000 gal/A less than the rate in the table, apply lbs. N fertilizer listed below.
	17-21		22-25		26-29		30-33		
	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	Manure gal/A	Fert N lb/A	
Spring Incorporation within 1 day	9000	0	11000	0	14000	0	16000	0	14
Spring Incorporation within 1 week	13000	0	16000	0	16000	35	16000	65	10
Spring No Incorporation	16000	40	16000	70	16000	100	16000	130	6
Fall	16000	40	16000	70	16000	100	16000	130	6
Winter with cover crop	5000	75	5000	105	5000	135	5000	165	11
Winter No cover crop	5000	100	5000	130	5000	160	5000	190	6

STEP 7:

In this example, the maximum application rate is 16,000 gal/A, and 70lbs of N. However, only 9,000 gal/A can be applied at one time. Applications greater than 9,000 gal/A will need to be split into two separate applications. Also note that no more than 16,000 gal/A can be applied for the year; you *cannot* spread 16,000 gal/A in the spring, and another 16,000 gal/A in the fall. If you only plan to spread 9,000 gal/A total, proceed to step 8 to determine how much additional N fertilizer can be applied to meet the Nitrogen needs of your crop.

STEP 8:

The last column on the right indicates how many lbs N fertilizer you can apply if your planned application rate is less than what is shown in the chart. In the example above, if you only plan to apply 9,000 gal/A total, subtract this amount from the maximum amount listed in the chart (ex: 16,000 gal/A—9,000 gal/A = 7,000 gal/A). The chart shows you can apply 6lbs additional N Fertilizer for every 1,000 gal/A less than the rate in the table. Since it is 7,000 gal/A less, the maximum amount of fertilizer you can apply with a maximum rate of 9,000 gal/A is 110lbs (7 X 6 lbs N = 42 lbs N, 70lb N maximum from chart + 42 lbs N = 110 lbs N fertilizer. Record this information on page 6 (Manure Management Plan Summary) of your workbook.