

2003

EC03-182 Manure Application Calibration Guide

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The Nebraska Environmental Trust

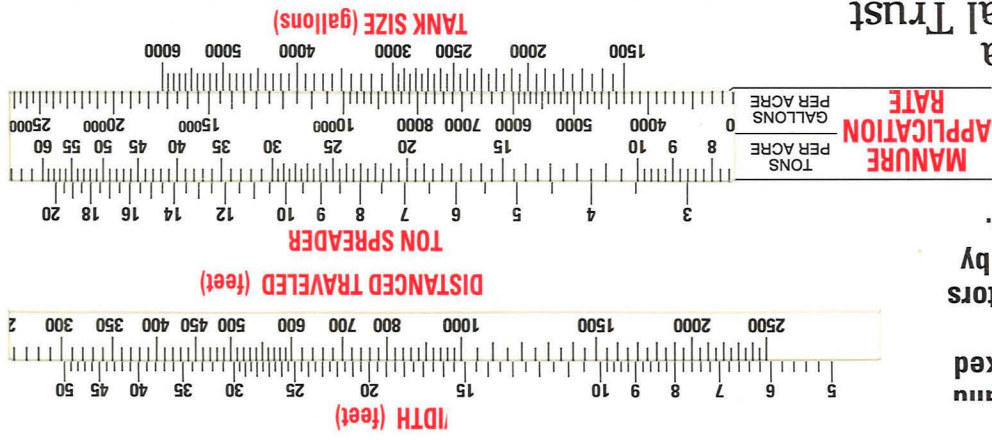
reader capacity and
rank size need to be rechecked
by weighing several loads.
Weights from liquid applicators
can be converted to gallons by
dividing liquid weight by 8.4.

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2 Read appropriate application rate at spreader size or tank size.

1 Set distance at spread width.

Side 1

Cooperative Extension EC03-182

E APPLICATION GUIDE

MANURE NITROGEN APPLICATION CALCULATOR

For section 1

Set planned application rate at manure's ammonium-N content. Read lbs/acre available this year at appropriate availability factor from table 1 and record in area provided.

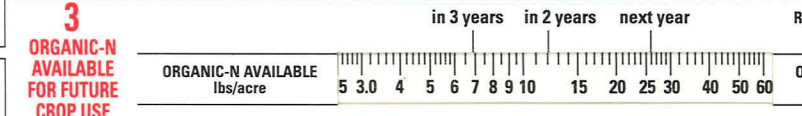
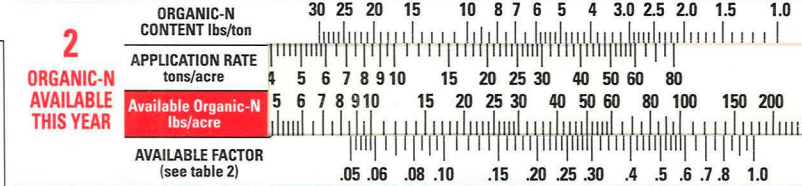
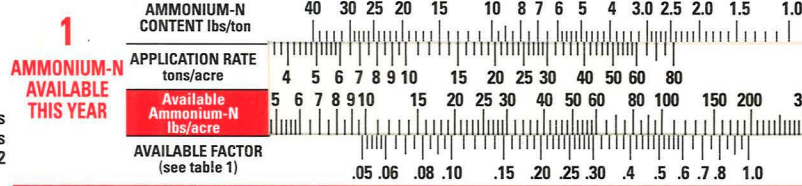
For section 2 and 3

Set planned application rate at manure's organic-N content. Read lbs/acre available this year at appropriate availability factor from table 2 and record in area provided.

Read lbs/acre available next year, in 2 years, and in 3 years and record in area provided.

USE THIS SIDE FOR SOLIDS

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RECORD RESULTS HERE

Ammonium-N Available this year _____ lbs/acre

Organic-N Available this year _____ lbs/acre

TOTAL N AVAILABLE THIS YEAR = _____ lbs/acre

Organic-N Available from this Application

next year _____ lbs/acre

in 2 years _____ lbs/acre

in 3 years _____ lbs/acre

TABLE 1 AMMONIUM-N AVAILABLE THIS YEAR

Sidedress application:	Preplant application & incorporated:	Manure Form:	Solid	Liquid
Incorporated	Immediately		0.95	0.95
Sprinkler irrigation	1 day later		0.50	0.70
	2 days later		0.25	0.50
	3 days later		0.15	0.35
Preplant application & Not incorporated:				
Surface-spring or fall			0.00	

TABLE 2 ORGANIC-N AVAILABLE THIS YEAR

Beef/Dairy	Poultry		
Solid (e.g. feedlot)	Deep Pit		0.45
Stored Liquid	Solid with litter		0.30
Compost	Solid without litter		0.35
Swine			
Fresh	Stored Liquid		0.35

IMPORTANT NOTE: NDEQ's Title 130 requires that manure not be applied "in excess of agronomic rates for nitrogen". To comply with these regulations the producer will need to annually prepare a Nitrogen Management Plan that determines Crop Available Manure Nitrogen, and keep these plans on file for five years (for NDEQ inspection).

Side 2