

**LISCO-OSHKOSH-LEWELLEN
GROUNDWATER MANAGEMENT AREA ANNUAL REPORT
North Platte NRD**

Due Date: **January 12, 2010** For Growing Season: **Year 2009**

(See Reverse for calculations)

Name _____ Phone Number: _____
(Certified Farm Operator)

Landowner _____

Address _____

_____ Zip _____

WELL REGISTRATION NUMBER (if groundwater) _____

Field No _____

Field Description (Legal) _____ 1/4 _____ 1/4, Sec. _____ Township _____ Range _____ County _____

Acres in field: _____ Crop Planted _____ Previous Crop Planted: _____

SOIL DATA (Copies of soil reports MUST be attached)

Soil Lab: _____

Soil Sample ID No. (from soil test)	Acres Per Sample (no more than 40 acres)	Residual Nitrogen (NO3) (to at least 3 ft)
_____	_____	_____ lbs per acre
_____	_____	_____ lbs per acre
_____	_____	_____ lbs per acre

WATER DATA (Copies of water reports MUST be attached)

Water Lab: _____ 1) Water Nitrate Result(NO3N) (from 2009) _____ (ppm or mg/l)

Flow Meter Reading: acre-inches x.01 x100 Weir: Cubic Feet per Second (CFS): _____
 Begin: _____ acre-feet x.001 x1000 Hours _____
 End: _____ gallon x10

Irrigation Scheduling Method Used: _____ 2) Total Inches of Water applied during season _____
 (from line A on back)

FERTILIZER DATA

3) Yield Goal (from line B on back) _____ 4) Total N required to meet yield goal (from line C on back) _____

Credits
 5) N from soil (average of soil tests): _____ lbs per acre (from line D on back)
 6) N from irrigation water (formula on back) : _____ lbs per acre (from line E on back)
 7) N from manure (formula on back): _____ lbs per acre (from line F on back)
 8) N from previous Legume Crop: _____ lbs per acre (from line G on back)
 9) Fertilizer N needed to meet yield goal: _____ lbs per acre (from line H on back)

Fertilizer N actually applied: _____ lbs per acre
 First N application: _____ lbs per acre; date: _____ type: _____
 Second N application: _____ lbs per acre; date: _____ type: _____
 Inhibitor used? _____
 Actual Yield: _____ bushels per acre

I certify that to the best of my knowledge the information on this form and any attachments is accurate and correct.

Signature (Certified Farm Operator) _____
Date

Send Completed form to: **NORTH PLATTE NRD, P O BOX 280, SCOTTSBLUFF, NE 69363-0280**

Formulas for front of sheet:

(All Formulas are taken from the University of Nebraska Cooperative Extension NebGuides)

A. **Flowmeter Calculation:** (Put on line 2) **Weir Calculations:**

$$\frac{\text{Total Gallons} \div 27,154}{\text{Acres}} = \frac{\text{Inches}}{\text{per acre}} \quad \frac{\text{Acre-Inches}}{\text{Acres}} = \frac{\text{Inches}}{\text{per acre}} \quad \frac{\text{Acre-Feet} \times 12}{\text{Acres}} = \frac{\text{Inches}}{\text{per acre}} \quad \frac{\text{CFS} \times \text{Hours}}{\text{Acres}} = \frac{\text{Inches}}{\text{per acre}}$$

B. **Yield Goal:** (Put on line 3)
 105 percent of the five year average (throw out unusual years, such as hail damage)
 1.05 X 5 year average = Yield Goal in bushels per acre

C. **Total N required to meet yield goal:** (Put on line 4)
 1.2 X Line 3 + 35_____ = Total N in lbs per acre

NITROGEN CREDITS

D. **Residual Soil Credit:** (Put on line 5)
 All labs will report residual nitrate-N results for the depth sampled (usually 3 or 4 feet). If this number is available, report it .If there is more than one soil test per field, average the results.

E. **Residual Water Credit:** (Put on line 6) $.2267 \times \text{Line 1} \times \text{Line 2} = \text{_____ lbs N per acre}$
 The lab will report residual nitrate-N results in parts per million or milligrams per liter (both are equal). To allow a credit for nitrate in irrigation water, you must know this number and also how much irrigation water was applied to the field. For each foot of irrigation water applied, 1 ppm nitrate-N in water is equal to 2.72 pounds of nitrogen per acre.

F. **Manure Credit:** (Put on line 7) $\text{Tons per Acre} \times \text{lbs N in manure per Ton} = \text{_____ lbs N per acre}$
 If possible, have a manure sample analyzed by a laboratory to determine the nitrogen content. If this cannot be done, then use the following guidelines to plug into the above formula.
 Year manure applied = 5 lbs N per Ton
 1st year after manure applied = 3.0 lbs N per Ton
 2nd year after manure applied = 1.4 lbs N per Ton
 3rd year after manure applied = .8 lbs N per Ton

G. **Legume Credit:** (Put on line 8)
 Field Beans 25-30 lbs per Acre _____ lbs per Acre
 Alfalfa (good stand) 100-150 lbs per Acre _____ lbs per Acre
 50% stand 70-120 lbs per Acre _____ lbs per Acre
 Soybeans 30-50 lbs per Acre _____ lbs per Acre

H. **Fert N for Yield Goal:** (Put on line 9) Amount of N that should be applied to achieve yield goal.
 Line 4 _____ minus line 5 _____, minus line 6 _____, minus line 7 _____,
 minus line 8 _____ = lbs N to apply for this crop. Line 9

<p>FOR NRD USE ONLY</p> <p>OPERATOR ID: _____</p> <p>LOCATION ID: _____</p>
