SUPERIOR—HARDY WATER QUALITY SUB-AREA
Annual Nitrogen Management Report
Little Blue and Lower Republican NRD

Water Tested by:
Soil Tested by:

Send completed form to:
Little Blue NRD
P.O. Box 100
Davenport, NE 68335

Date:_____ **Landowner:**_____ **Tenant:**_____

Address:_____ **Zip:**_____

Report Due: December 31st **Signature:**_____

CROPPING and REPORTING INFORMATION

DESCRIPTION	FIELD 1	FIELD 2	FIELD 3	FIELD 4	EXAMPLE
Legal Description					NE 1/4 3-4-5
Total Acres of Field					40
Kind of Crop Grown					corn
Projected Yield Goal Bu/Ac					200 bus/acres
Actual Yield Bu/Ac					180 bus/acres
Nitrogen Available from Past Crop					35 lbs
Irrigation Water Nitrate Result (ppm) (use 5 ppm as default number if not known)					17 lbs
Nitrogen Available from Manure					None
Nitrogen Rec./ Applied (lbs. per acre)					123 lbs/acre 140 lbs
Did you use a Nitrification Inhibitor?	Yes No	Yes No	Yes No	Yes No	Yes
Did you use a Split Application (Sidedress)?	Yes No	Yes No	Yes No	Yes No	Yes
Kind of Chemicals Applied					Atrazine
Acres Irrigated					40
Type of Irrigation (Gravity, Bostwick, etc.)					Pivot
Irrigation Scheduling Method Used					Hand Feel
Inches of Water Applied					7
Crop(s) to Plant Next Year					milo/corn

NITROGEN TABLES for CORN and GRAIN SORGHUM

Table 1. Nitrogen Fertilizer Suggestions for Corn

Soil Organic Matter (%)	Residual Nitrate - N ppm (avg)	lb/acre 3 ft	Expected Yield (bu/acre) 60	80	100	120	140	160	180	200	220	240
3	3	32	60	75	90	105	120	135	150	165	185	200
	6	65	35	50	65	80	95	110	125	145	160	175
	9	97	0	25	40	55	70	90	105	120	135	150
	12	130		0	15	35	50	65	80	95	110	125
	15	162			0	0	25	40	55	70	85	100
	18	194					0	15	30	45	65	80
	21	227						0	0	25	40	55
	24	259								0	15	30
	27	292									0	0
2	3	32	65	85	105	120	140	160	175	195	215	230
	6	65	40	60	80	95	115	135	155	170	190	210
	9	97	20	35	55	75	90	110	130	145	165	185
	12	130	0	15	30	50	70	85	105	125	140	160
	15	162		0	0	25	45	60	80	100	115	135
	18	194				0	20	40	55	75	95	110
	21	227					0	15	35	50	70	90
	24	259						0	0	25	45	65
	27	292								0	20	40
1	3	32	75	95	115	140	160	180	200	225	245	265
	6	65	50	70	95	115	135	155	180	200	220	240
	9	97	25	50	70	90	110	135	155	175	195	215
	12	130	0	25	45	65	85	110	130	150	170	195
	15	162		0	20	40	65	85	105	125	150	170
	18	194			0	20	40	60	80	105	125	145
	21	227				0	15	35	60	80	100	120
	24	259					0	15	35	55	75	95
	27	292						0	0	30	50	75

Table 2. Nitrogen Fertilizer Suggestions for Grain Sorghum

Soil Organic Matter (%)	Residual Nitrate - N ppm (avg)	lb/acre 3 ft	Expected Yield (bu/acre) 40	60	80	100	120	140	160	180	200
3	3	32	15	35	60	80	100	125	145	170	190
	6	65	0	0	20	40	60	85	105	130	150
	9	97			0	0	20	45	65	90	110
	12	130					0	5	25	50	70
	15	162						0	0	10	30
	18	194								0	0
	21	227									
2	3	32	35	55	80	100	120	145	165	190	210
	6	65	0	15	40	60	80	105	125	150	170
	9	97		0	0	20	40	65	85	110	130
	12	130				0	0	25	45	70	90
	15	162					0	0	5	30	50
	18	194							0	0	10
	21	227									0
1	3	32	55	75	100	120	140	165	185	210	230
	6	65	15	35	60	80	100	125	145	170	190
	9	97	0	0	20	40	60	85	105	130	150
	12	130			0	0	20	45	65	90	110
	15	162					0	5	25	50	70
	18	194						0	0	10	30
	21	227								0	0

Table 3. Estimated Apparent N Contributions from Legumes

Legume Crop	Nitrogen Fertilizer Reduction (lb/acre) Medium & Fine Textured Soils	Sandy Soils
Soybean	45	45
Alfalfa (70-100% stand, > 4 plants/ft 2)	150	100
Alfalfa (30-69% stand, 1.5-4 plants/ft 2)	120	70
Alfalfa (0-29% stand, < 1.5 plants/ft 2)	90	40
Sweet Clover and Red Clover	80% of credit allowed for alfalfa	

Table 4. Estimated N Contributions from Manures and Other Waste Materials for the First Crop After Application

Dry Materials	lb N/ton	Liquid Materials	lb N/1000 gal
Beef Feedlot Manure	4-5	Swine - Liquid Pit	10-15
Dairy Manure	3	Swine - Lagoon	2-5
Sheep Manure	5	Beef - Li Liquid Pit	10-12
Poultry Manure	12-17	Beef - Lagoon	1-2
Composted Beef Feedlot Manure	10-14	Dairy - Liquid Pit	7-8
Sewage Sludge	2-3	Dairy - Lagoon	1-2
Horse Manure	3	Cheese Whey	1-2

Waste material credits shown in Table 4 can vary considerably depending on how waste materials are handled and applied. For more credit, have a sample of the waste material analyzed.