

Name: Ima Farmer Date: 7/22/02 Ident. No.: 141001 SE

Legal Desc.: SE 1-14-10 Field No.: 3 County: Ellsworth

Predominant soil type:
3533
Tillage system:
mulch
Irrigated: YES NO
Acres: 120

Crop:
Corn
Yield goal:
175 bushels
Previous crop:
soybeans
Previous yield:
50 bushels

Next crop:
double crop/wheat
Next yield:
45 bushels
Planned crop rotation:
B - C - DC/W - B - C

Soil test information:
Soil texture: Sandy loam
Soil OM: 1.1
Soil pH: 5.8
Buffer pH: 6.1
CEC: 11 meq/100gm
Soil EC: N/A mmhos/cm
Soil sample date: 5/1/02

Surface sample depth: 6 inches
Profile soil depth: 24 inches
Surface profile NO₃-N: 6 lb/ac ppm
Profile NO₃-N: 3 lb/ac ppm
Bray Mehlich Olsen P
(check one) 11 ppm
Exchange K: 150 ppm
Sulfur: N/A lb/ac ppm
Zn-DTPA: N/A ppm

Profile Cl: N/A lb/ac ppm
Other: _____
Other: _____
Other: _____
(Legend: OM=organic matter; CEC=cation capacity; EC=electroconductivity; NO₃-N=nitrate nitrogen; K=potassium; Cl=chloride; P=phosphorus; Zn-DTPA=trisodium zinc diethylenetriaminepentaacetate; lb=pound; gm=gram; cm=centimeter; ppm=parts per million; meq=milliequivalents; mmhos=millimhos)

Environmental risk assessment:

- | Y | N | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | P total maximum daily load (TDML) area |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Kansas Geological Survey ground water sensitive area |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | P soil test greater than 50 ppm Bray 1/Mehlich III |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Irrigated field |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Adjacent to homes, buildings, etc. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Shallow water tables (less than 10 feet deep) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Water well in field |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Wellhead setback |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Stream setbacks |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Adjacent to intermittent/perennial stream (less than 300 feet) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Flood frequency class (occasional or greater) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Buffer strips present |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Sheet/rill erosion concerns |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Gully erosion concerns |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Stream bank erosion concerns |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other environmental concerns (detail in producer long-term objectives) |

Producer long-term nutrient objectives: (Use arrow key to advance to next line.)
Build soil test phosphorous levels from 11 ppm to approximately 25 ppm; Improve crop yields

Environmental management indicators:

RUSLE soil erosion: 2.1 ton/acre
Phosphorus index (if needed) medium
Leaching index: (check one)

- High Medium Low

Manure application: (check one)

- None
 Incorporated _____ days after application
 Unincorporated
 Subsurface injected
 Irrigation system center pivot
 Other _____

Suggested best management practices: (Use arrow key to advance to next line.)

Maintain cropping system with soil less than "T"; Soil test annually; Apply irrigation water in a manner which minimizes leaching loss; Apply and incorporate 10 pounds per acre beef manure prior to corn planting

Overall conservation plan objectives: (Use arrow key to advance to next line.)

Land apply beef manure as a crop nutrient and minimize losses to surface run-off and leaching

Table 1: Crop Nutrient Requirements, Timing, and Sources

To activate this table, open and save Form KS-ECS-590wksht.xls to the hard drive of your personal computer. Double click the table to enter values. Position the table and click outside the table to exit and save entries.

			N	P ₂ O ₅	K ₂ O	S	Zn	Cl	Other	Lime
			lbs/acre							t/a ECCE
Total Nutrient Requirement			280	90	45					
Nutrient Credits										
Profile Nitrate-N, chloride, sulfur			22							
Soil organic matter			22							
Previous crop adjustment			40							
Irrigation water			20							
Manure (from attached work sheet)			61	60	153					
Tillage										
Other										
			165	60	153	0	0	0	0	0
Planned Nutrient Application										
		Source/Material	Actual							
Planting/starter	18-46-0	50 lbs		9	23					
Broadcast - surface										
Broadcast - incorporated										
Knife - preplant										
Sidedress	46-0-0	200 lbs		92						
Top dress										
Irrigation	28-0-0	75 lbs		21						
Irrigation										
Other										
Other										
Total Nutrients Supplied			287	83	153	0	0	0	0	0

Legend: N=nitrogen; P₂O₅=phosphorus; K₂O=potassium; S=sulfur; Zn=zinc; Cl=chloride; lbs=pounds; t/a=tons per acre; ECCE=effective calcium carbonate equivalent

Location map: Import ArcView image, reference conservation plan map, or provide a sketch denoting field boundary, field number, land use, acres, and scale used.



Place imported image or sketch here.

Scale: _____

Technical Service Provider

Signature _____ 7/22/02
 Layout by _____ Date
 Signature _____ 7/22/02
 Designed by _____ Date
 Signature _____ 7/22/02
 Checked by _____ Date
 Signature _____ 7/22/02
 Approved by _____ Date

Producer's Statement

The design of this practice has been discussed with me, and I concur with the design. **No substitutions are allowed without the approval of the technical service provider.**

Signature _____ 7/22/02
 Signature _____ Date

Certification

This applied practice meets Kansas standards and specifications.

Signature _____ 7/1/03
 Technical Service Provider _____ Date

This practice has been applied as designed.

Signature _____ 7/1/03
 Producer _____ Date

