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U.S. Department of Agriculture
Natural Resources Conservation Service

NE-ENG-82
3/95

# WASTE MANAGEMENT SYSTEM (INVENTORY SHEET)

Owner/Operator B. GOOD County STANTON Field Office STANTON

NRD LOWER ELKHORN Date 12/01/1995

SKETCH MAP OF FACILITY

North

Legal Description

Sec._____ ,T_____ ,R_____

## Population and makeup of the System

(1) Type and # of Animals in the facility: 500 FEEDER CATTLE

(2) Average size of the animal: 1000 pounds

(3) Number of days the facility is used per year: 365

(4) Animal Units (AU) (1) x (2) / 1000 = 500

(5) Acres available to apply the Waste on: 120 Acres

(6) Crops to be grown & Yield: CORN, 120; BEANS, 40

## Excreted Waste Production

| | | | | | DAILY | | YEAR |
|---|---|---|---|---|---|---|---|
| (7) Volume of Animal Waste = (Table 4-5, 4-8, 4-11 or 4-14) | 0.82 | x | 500 (4) | = | 410 (cu ft) | x (3) = | 149,650 (cu ft) |
| (8) Weight of Animal Waste = (Table 4-5, 4-8, 4-11 or 4-14) | 51.2 | x | 500 (4) | = | 25,600 (lb) | x (3) = | 9,344,000 (lb) |

## Facility Characteristics

(9) Type of facility: Open Lot, Confined, Combination of Both: OPEN LOT

(10) Type of Storage for the Solid Waste: DEBRIS BASIN

(11) Type of Storage for the Liquid Waste: HOLDING POND

## Yearly Nutrient Value of Waste Applied

(12) (3) x (4) = ----------> 182,500

(13) # of N (12) x 0.30 (Table 4-5...4-14) x 0.70 (Tab. 11-5) x 0.50 (Table 11-6) = 19,162 (lb)

(14) # of P (12) x 0.11 (Table 4-5...4-14) x 0.80 (Table 11-5) ----------> = 16,060 (lb)

(15) # of K (12) x 0.24 (Table 4-5...4-14) x 0.70 (Table 11-5) ----------> = 30,660 (lb)

## Nutrient Balance Calculations

(16) Annual needs of Crops shown in (6)

*General information on crop nutrient needs can be found in table 6–6*

| | CROP | YIELD | N # per Acre | P # per Acre | K # per Acre |
|---|---|---|---|---|---|
| (a) | CORN | 120 | 120 | 45 | 30 |
| (b) | BEANS | 40 | | 30 | 50 |
| (c) | | | | | |

(17) Minimum number of acres needed for application

*Acres needed for N = (13) / (16)*

*Acres needed for P = (14) / (16)*

*Acres needed for K = (15) / (16)*

| CROP | Acres for N | Acres for P | Acres for K |
|---|---|---|---|
| CORN | 160 | 357 | 1022 |
| BEANS | N/A | 535 | 613 |
| | | | |

## OPEN LOT

(18) Is the lot ? [ ] Paved, [X] Unpaved, [ ] Combination of both *Circle one*

(19) Acres in the lot = 13 (19) Foreign drainage into the lot = 0 Acres

## CONFINED SYSTEM

(20) Will flush water be used to clean the facility [ ] YES [X] NO

(21) Is it known how many gallons per day will be used N/A gallons/day

(22) Will there be a stacking facility [ ] YES [X] NO

(23) If YES is it inside or outside [ ] INSIDE [ ] OUTSIDE

## APPLICATION EQUIPMENT

What equipment will be used to convey and apply the solids

MANURE SPREADER

What equipment will be used to convey and apply the liquid

CENTER PIVOT

(24) How many cu ft of solids can be appied in a day if known 10,000 cu ft/day

(25) How many gallons of liquid can be appied in a day if known ----> 8000 gallons/day

INVENTORY BY _____ DATE _____