

# Manplan Summary Report

---

Created for: Tri-Oak Foods / Henco Hogs, L.L.C.

R.R. 3

Box 72

Monmouth, Illinois 61462

Phone: (309) 729-5534

Plan: Henco Hogs-2008-2011

Plan Year: 2008-2011

State: Illinois CNMP

Description: Driving Directions to farm: From Little York, Ill go west to H-135, turn left/south go 1 1/2 miles, turn right/west go 1 mile, turn left/south 1 mile, turn right/west go 1 3/4 miles

---

## General Plan Information

---

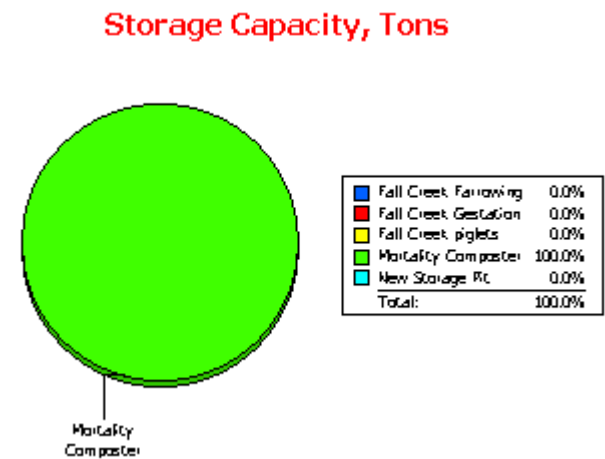
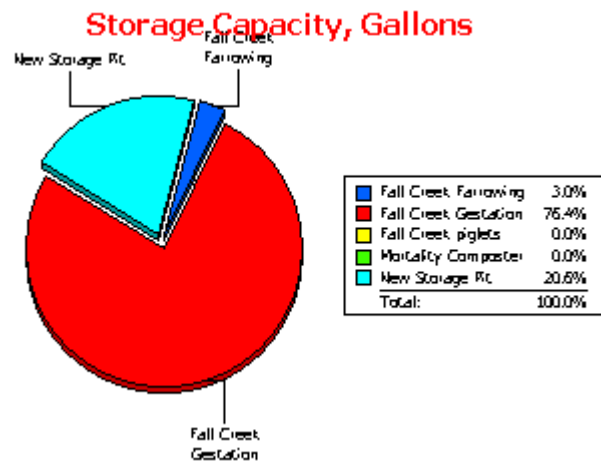
People and Companies:

| Name                 | Address  | Position                   | Phone        |
|----------------------|--|----------------------------|--------------|
| Twomey Company       | P.O. Box 158, 1 West State Street ; Smithshire, IL 61478 | Fertilizer Service Company | xxx-xxx-xxxx |
| Jerry Darrah         | R.R. 3 Box 66; Mommouth, Illinois 61462                  | Owner-Manager              | 309-729-5373 |
| Riverland FS         | 126 S Public Square, PO Box 217; Knoxville, IL 61448     | Fertilizer Service Company | 309 289-2383 |
| Dennis Godar         | 8810 Buckhart Road; Rochester, Illinois 62563            | Consultant/ TSP            | 217 622-4199 |
| Monmouth Grain&Dryer | 903 S Sunnyslane; Monmouth, IL 61462                     | Fertilizer Service Company | 309 734-8423 |
| Midwest Labs         | 13611 B Street; Omaha, NE 68144                          | Soil & Manure Lab          | 402 334-7770 |
| Tri Oak Foods        | P.O. Box 68; Oakville, Iowa 52646                        | Corporate owner            | 319-766-4411 |

## General Plan Information

Waste Storage Facilities:

| Name                 | Plat Location | Dimensions    | Capacity  | Tons       | Gallons        |                |             |                      |
|----------------------|---------------|---------------|-----------|------------|----------------|----------------|-------------|----------------------|
|                      |               |               |           | Dry Stacks | Under Barn Pit | Earthen Lagoon | Outside Pit | Above Ground Storage |
| Fall Creek Farrowing |               | multiple pits | 164,713   |            | X              |                |             |                      |
| Fall Creek Gestation |               | 96.2*728.5*10 | 4,163,000 |            | X              |                |             |                      |
| Fall Creek piglets   |               |               | 0         |            | X              |                |             |                      |
| Mortality Composter  |               |               | 125       | X          |                |                |             |                      |
| New Storage Pit      |               | 79*200*9.5    | 1,121,247 |            |                |                | X           |                      |
|                      |               |               | Total:    | 5,449,085  |                |                |             |                      |



## General Plan Information

### Waste Production Facilities:

| Name                 | Head Capacity | Type of Production        | Apply from Source? | Animal Units | Total Animal Units | Production Cycles | Average Weight | Total Weight Capacity |
|----------------------|---------------|---------------------------|--------------------|--------------|--------------------|-------------------|----------------|-----------------------|
| Mortality Composter  | 3,300         | Composter,SowFarm         | Y                  | 0.00         | 0.0                | 1.0               | 0              | 0                     |
| New Storage Pit      | 0             | Manure Storage Only       | Y                  | 0.00         | 0.0                | 0.0               | 0              | 0                     |
| Fall Creek piglets   | 3,500         | Swine, <55lbs., Pit       | N                  | 0.03         | 105.0              | 8.0               | 25             | 87,500                |
| Fall Creek Gestation | 2,800         | Swine, Gestating Sow, Pit | Y                  | 0.40         | 1,120.0            | 1.0               | 475            | 1,330,000             |
| Fall Creek Farrowing | 500           | Swine, Lactating Sow, Pit | Y                  | 0.40         | 200.0              | 1.0               | 425            | 212,500               |
| Total:               |               |                           |                    |              | 1,425.0            |                   |                |                       |

## General Plan Information

Fields:

| Name                                | Location                              | Field Owner | Spreadable Acres | Non-Manure Acres | Total Acres |
|-------------------------------------|---------------------------------------|-------------|------------------|------------------|-------------|
| H-1 -                               | Hogue East, SE1/4 Sec 11, Rozetta     |             | 77.60            | 0.00             | 77.60       |
| H-2 -                               | Hogue West; SE1/4 Sec 11, Rozetta     |             | 71.20            | 0.00             | 71.20       |
| LT-1 -                              | L Thompson,SW1/4 Sec 11, Rozetta      |             | 78.20            | 0.00             | 78.20       |
| LT-2 -                              | L Thompson,SW1/4 Sec 11; Rozetta      |             | 73.00            | 0.00             | 73.00       |
| LT-3 -                              | L Thompson,NW1/4 Sec 11; Rozetta      |             | 9.20             | 1.10             | 10.30       |
| LT-4 -                              | L Thompson,NW1/4 Sec 11; Rozetta      |             | 38.90            | 0.00             | 38.90       |
| LT-5 -                              | L Thompson,SW1/4 Sec 2; Rozetta       |             | 25.10            | 0.00             | 25.10       |
| Lucille's 40 -                      | "Miller 33"; SW1/4 Sec36,Bald Bluff   |             | 37.20            | 0.00             | 37.20       |
| T-1008-1 - Home, west field         | E1/2, NE 1/4 Sect 2, Rozetta Twnshp,  |             | 42.80            | 1.30             | 44.10       |
| T-1008-2 - Home, church             | E 1/2, NE 1/4 Sect 2, Rozetta Twnshp, |             | 14.60            | 1.70             | 16.30       |
| T-1008-3E - Home; North part East   | NW 1/4 Sect 1, Rozetta Twnshp,        |             | 36.80            | 0.00             | 36.80       |
| T-1008-3W - Home, around buildings  | NW 1/4 Sect 1, Rozetta Twnshp,        |             | 26.80            | 0.00             | 26.80       |
| T-1008-4e - Home east of drive      | NW 1/4 Sect 1, Rozetta Twnshp,        |             | 15.00            | 0.00             | 15.00       |
| T-1008-4w - Home, west of driveway  | NW 1/4 Sect 1, Rozetta Twnshp         |             | 12.40            | 0.40             | 12.80       |
| T-1008-5 - Home; South part East 80 | NW 1/4 Sect 1, Rozetta Twnshp,        |             | 39.50            | 0.00             | 39.50       |
| T-1100-2 & 8 - Downes Place         | W 1/2, NW 1/4 Sect 12, Rozetta        |             | 47.00            | 0.00             | 47.00       |
| T-1100-6 - Downes Place             | SW 1/4 Sect 12, Rozetta Twnshp,       |             | 128.50           | 0.00             | 128.50      |
| Total:                              |                                       |             | 773.80           | 4.50             | 778.30      |

## Manure Management Plan Assumptions

Crops Available: The following crops have suggested nutrient removal per the sources listed.

| Crop Name    | Data Source              | N Required (lbs/Bu) | K Required (lbs/Bu) | P Required (lbs/Bu) | Next Years N Credits |
|--------------|--------------------------|---------------------|---------------------|---------------------|----------------------|
| Corn, IL-1.2 | ILAgronHandbk, tbl-11.23 | 1.20                | 0.23                | 0.19                | 0.00                 |
| Soybeans     | ILAgronHndbk, tbl-11.23  | 3.30                | 1.08                | 0.37                | 40.00                |

Application Methods:

| Application Method     | Data Source                                  | % N Retention | Application Method | Data Source                                  | % N Retention |
|------------------------|--|---------------|--------------------|--|---------------|
| Incorp. within 24hrs   | Manure Characterisitcs, Pub. 18, MWPS, Ames, | 0.95          | Knifed In- Fall    | Manure Characterisitcs, Pub. 18, MWPS, Ames, | 0.98          |
| Knifing In (Ref. MWPS) | Manure Characterisitcs, Pub. 18, MWPS, Ames, | 0.98          |                    |  |               |

Production Types: The following animal production and/or waste storage facilities are assumed to produce the listed amount of waste products.

| Production Type           | Animal Units | Manure Produced (gall/day) | Production Type           | Animal Units | Manure Produced (gall/day) |
|---------------------------|--------------|----------------------------|---------------------------|--------------|----------------------------|
| Composter, Sow Farm       | 0.00         | 0.0002                     | Manure Storage Only       | 0.00         | 1.0000                     |
| Swine, <55lbs., Pit       | 0.03         | 0.2500                     | Swine, Gestating Sow, Pit | 0.40         | 1.7400                     |
| Swine, Lactating Sow, Pit | 0.40         | 3.8000                     |                           |              |                            |

Note: Manure produced units are gallons per day for liquid manure, and tons per day for dry manure.

## Mineralization Rates for Organic Nitrogen

### Mineralization Rates for Organic Nitrogen

| Manure Type | Manure Handling       | Min Factor |
|-------------|-----------------------|------------|
| Swine       | Fresh                 | .50        |
|             | Anaerobic liquid      | .35        |
|             | Aerobic liquid        | .30        |
| Beef        | Solid without bedding | .35        |
|             | Solid with bedding    | .25        |
|             | Anaerobic liquid      | .30        |
|             | Aerobic liquid        | .25        |
| Sheep       | Solid                 | .25        |

| Manure Type | Manure Handling       | Min Factor |
|-------------|-----------------------|------------|
| Dairy       | Solid without bedding | .35        |
|             | Solid with bedding    | .25        |
|             | Anaerobic liquid      | .30        |
|             | Aerobic liquid        | .25        |
| Poultry     | Deep Pit              | .60        |
|             | Solid with litter     | .60        |
|             | Solid without litter  | .60        |
| Horse       | Solid with bedding    | .20        |

## Manure Sample Results

### Storage Facility Nutrient Analysis: Liquid Manure

| Storage Facility     | Lab          | Sampler      | Plan Year | Date     | N (lb/unit) | NH3 (lb/unit) | Org N (lb/unit) | P2O5 (lb/unit) | K2O (lb/unit) |
|----------------------|--------------|--------------|-----------|----------|-------------|---------------|-----------------|----------------|---------------|
| Fall Creek Farrowing |              |              | 2008      |          | 25.30       | 19.40         | 5.90            | 5.60           | 14.40         |
|                      |              |              |           | Average: | 25.30       | 19.40         | 5.90            | 5.60           | 14.40         |
| Fall Creek Gestation | Midwest Labs | Jerry Darrah | 2008      | 10/26/06 | 25.70       | 21.70         | 4.00            | 9.70           | 12.40         |
|                      |              |              |           | Average: | 25.70       | 21.70         | 4.00            | 9.70           | 12.40         |
| New Storage Pit      | Midwest Labs | Jerry Darrah | 2008      | 10/26/06 | 25.70       | 21.70         | 4.00            | 9.70           | 12.40         |
|                      |              |              |           | Average: | 25.70       | 21.70         | 4.00            | 9.70           | 12.40         |

## Available Nitrogen Concentration in Applied Manure

Available Nitrogen Concentration in Applied Manure  
(after deducting application losses)

| Manure Storage Structure | 1st Yr. Organic N Mineralization Factor | N Concentration (lb/1000 gal or lb/ton) | NH3 Concentration (lb/1000 gal or lbs/ton) | Organic N Concentration (lb/1000 gal or lb/ton) | Planned Method of Application | Application Loss Factor | Available N |                           |          |                           |                           |                           |
|--------------------------|---|---|--|---|-------------------------------|-------------------------|-------------|---------------------------|----------|---------------------------|---------------------------|---------------------------|
|                          |   |   |  |   |                               |                         | 1st Year    |                           | 2nd Year |                           | 3rd Year                  | 4th Year                  |
|                          |   |   |  |   |                               |                         | %           | (lbs/1000 gal or lbs/ton) | %        | (lbs/1000 gal or lbs/ton) | (lbs/1000 gal or lbs/ton) | (lbs/1000 gal or lbs/ton) |
| New Storage              | 0.35                                    | 25.70                                   | 21.70                                      | 4.00  | Knifing In (Ref. MWPS)        | 0.98                    | 17.50       | 22.67                     | 8.75     | 0.70                      | 0.35                      | 0.18                      |
| New Storage              | 0.35                                    | 25.70                                   | 21.70                                      | 4.00  | Knifing In (Ref. MWPS)        | 0.98                    | 17.50       | 22.67                     | 8.75     | 0.70                      | 0.35                      | 0.17                      |
| New Storage              | 0.35                                    | 25.70                                   | 21.70                                      | 4.00  | Knifed In- Fall               | 0.98                    | 17.50       | 22.67                     | 8.75     | 0.70                      | 0.35                      | 0.17                      |
| New Storage              | 0.35                                    | 25.70                                   | 21.70                                      | 4.00  | Knifed In- Fall               | 0.98                    | 17.50       | 22.67                     | 8.75     | 0.70                      | 0.35                      | 0.18                      |
| New Storage              | 0.35                                    | 25.70                                   | 21.70                                      | 4.00  | Knifed In- Fall               | 0.98                    | 17.50       | 22.67                     | 8.75     | 0.70                      | 0.35                      | 0.17                      |

## General Nutrient Budget

General Nutrient Budget:

| Crop        | Manure Source        | Yield (bu/acre or ton/acre) | Nutrient Uptake Lbs/acre Required for Targeted Yields* |      |     | Gallons/acre or Tons/acre to supply all Required: |          |        |       |         |
|-------------|----------------------|-----------------------------|--|------|-----|---|----------|--------|-------|---------|
|             |                      |                             | Nitrogen   | P2O5 | K2O | N Ret**   | Nitrogen | P2O5   | K2O   | Units   |
| 2007        |                      |                             |  |      |     |   |          |        |       |         |
| Corn,IL-1.2 |                      | 232.67                      | 272  | 100  | 63  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 12,672   | 17,794 | 3,225 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 0.98  | 12,906   | 17,794 | 3,225 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 1.00  | 0        | 0      | 0     | Tons    |
|             | New Storage Pit      |                             |  |      |     | 0.98  | 12,825   | 10,273 | 3,052 | Gallons |
| Soybeans    |                      | 52.00                       | 173  | 49   | 90  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 8,063    | 8,822  | 4,625 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 0.98  | 8,212    | 8,822  | 4,625 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 1.00  | 0        | 0      | 0     | Tons    |
|             | New Storage Pit      |                             |  |      |     | 0.98  | 8,160    | 5,093  | 4,377 | Gallons |
| 2008        |                      |                             |  |      |     |   |          |        |       |         |
| Corn,IL-1.2 |                      | 200.00                      | 240  | 94   | 55  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 11,181   | 16,746 | 2,845 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 1.00  | 10,390   | 9,668  | 2,544 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 1.00  | 0        | 0      | 0     | Tons    |
|             | New Storage Pit      |                             |  |      |     | 0.98  | 10,589   | 9,668  | 2,544 | Gallons |
| Soybeans    |                      | 52.78                       | 172  | 44   | 68  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 8,027    | 7,900  | 3,488 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 1.00  | 7,459    | 4,561  | 3,118 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 1.00  | 0        | 0      | 0     | Tons    |
|             | New Storage Pit      |                             |  |      |     | 0.98  | 7,602    | 4,561  | 3,118 | Gallons |
| 2009        |                      |                             |  |      |     |   |          |        |       |         |
| Corn,IL-1.2 |                      | 200.00                      | 240  | 88   | 55  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 11,181   | 15,718 | 2,845 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 1.00  | 11,181   | 15,718 | 2,845 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 0.95  | 8        | 7      | 3     | Tons    |
|             | New Storage Pit      |                             |  |      |     | 0.98  | 11,315   | 9,074  | 2,693 | Gallons |
| Soybeans    |                      | 53.13                       | 175  | 49   | 86  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 8,132    | 8,734  | 4,457 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 1.00  | 8,132    | 8,734  | 4,457 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 0.95  | 6        | 4      | 5     | Tons    |
|             | New Storage Pit      |                             |  |      |     | 0.98  | 8,230    | 5,042  | 4,218 | Gallons |
| 2010        |                      |                             |  |      |     |   |          |        |       |         |
| Corn,IL-1.2 |                      | 200.00                      | 240  | 94   | 55  |   |          |        |       |         |
|             | Fall Creek           |                             |  |      |     | 1.00  | 11,181   | 16,746 | 2,845 | Gallons |
|             | Fall Creek Gestation |                             |  |      |     | 1.00  | 7,796    | 1,660  | 2,107 | Gallons |
|             | Mortality Composter  |                             |  |      |     | 0.95  | 8        | 7      | 3     | Tons    |

|              |                      |       |     |    |    |      |        |       |       |         |
|--------------|----------------------|-------|-----|----|----|------|--------|-------|-------|---------|
| Corn, IL-1.2 | New Storage Pit      |       |     |    |    | 0.98 | 11,315 | 9,668 | 2,693 | Gallons |
| Soybeans     |                      | 52.78 | 172 | 44 | 68 |      |        |       |       |         |
|              | Fall Creek           |       |     |    |    | 1.00 | 8,027  | 7,900 | 3,488 | Gallons |
|              | Fall Creek Gestation |       |     |    |    | 1.00 | 5,597  | 783   | 2,583 | Gallons |
|              | Mortality Composter  |       |     |    |    | 0.95 | 5      | 3     | 4     | Tons    |
|              | New Storage Pit      |       |     |    |    | 0.98 | 8,124  | 4,561 | 3,301 | Gallons |

**2011**

|              |                      |        |     |    |    |      |        |        |       |         |
|--------------|----------------------|--------|-----|----|----|------|--------|--------|-------|---------|
| Corn, IL-1.2 |                      | 200.00 | 240 | 88 | 55 |      |        |        |       |         |
|              | Fall Creek           |        |     |    |    | 1.00 | 11,181 | 15,718 | 2,845 | Gallons |
|              | Fall Creek Gestation |        |     |    |    | 1.00 | 11,181 | 15,718 | 2,845 | Gallons |
|              | Mortality Composter  |        |     |    |    | 0.95 | 8      | 7      | 3     | Tons    |
|              | New Storage Pit      |        |     |    |    | 0.98 | 11,315 | 9,074  | 2,693 | Gallons |
| Soybeans     |                      | 53.13  | 175 | 49 | 86 |      |        |        |       |         |
|              | Fall Creek           |        |     |    |    | 1.00 | 8,132  | 8,734  | 4,457 | Gallons |
|              | Fall Creek Gestation |        |     |    |    | 1.00 | 8,132  | 8,734  | 4,457 | Gallons |
|              | Mortality Composter  |        |     |    |    | 0.95 | 6      | 4      | 5     | Tons    |
|              | New Storage Pit      |        |     |    |    | 0.98 | 8,230  | 5,042  | 4,218 | Gallons |

\* Weighted average on acres planted from nutrient requirement values used in the plan. \*\* Weighted average NH3 retention factor on applications in the plan.

## Soil Test Results

Soil Tests:

| Field Name                  | Lab                  | Sampler              | Acres  | PlanYear | Date     | Soil pH | Prev Year N Credits lbs/acre | Bray P1 lbs/acre | Potassium lbs/acre |
|-----------------------------|----------------------|----------------------|--------|----------|----------|---------|------------------------------|------------------|--------------------|
| Lucille's 40 - "Miller 33"  | Riverland FS         | Riverland FS         | 37.20  | 2008     | 10/25/05 | 5.8     | 0.00                         | 118.00           | 325.00             |
|                             | Riverland FS         | Riverland FS         |        | 2009     | 10/25/05 | 5.8     | 0.00                         | 118.00           | 325.00             |
|                             | Riverland FS         | Riverland FS         |        | 2010     | 10/25/05 | 5.8     | 0.00                         | 118.00           | 325.00             |
|                             | Riverland FS         | Riverland FS         |        | 2011     | 10/25/05 | 5.8     | 0.00                         | 118.00           | 325.00             |
| T-1008-1 - Home, west field | Monmouth Grain&Dryer | Monmouth Grain&Dryer | 44.10  | 2008     | 11/4/04  | 6.2     | 0.00                         | 137.00           | 466.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2009     | 11/4/04  | 6.2     | 0.00                         | 137.00           | 466.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2010     | 11/4/04  | 6.2     | 0.00                         | 137.00           | 466.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2011     | 11/4/04  | 6.2     | 0.00                         | 137.00           | 466.00             |
| T-1008-2 - Home, church     |                      |                      | 16.30  | 2008     | 11/4/04  | 6.1     | 0.00                         | 105.00           | 350.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2009     | 11/4/04  | 6.1     | 0.00                         | 105.00           | 350.00             |
|                             |                      |                      |        | 2010     | 11/4/04  | 6.1     | 0.00                         | 105.00           | 350.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2011     | 11/4/04  | 6.1     | 0.00                         | 105.00           | 350.00             |
| T-1008-3E - Home; North     | Riverland FS         | Riverland FS         | 36.80  | 2008     | 10/20/06 | 6.4     | 0.00                         | 128.20           | 464.40             |
|                             | Riverland FS         | Riverland FS         |        | 2009     | 10/20/06 | 6.4     | 0.00                         | 128.20           | 464.40             |
|                             | Riverland FS         | Riverland FS         |        | 2010     | 10/20/06 | 6.4     | 0.00                         | 128.20           | 464.40             |
|                             | Riverland FS         | Riverland FS         |        | 2011     | 10/20/06 | 6.4     | 0.00                         | 128.20           | 464.40             |
| T-1008-3W - Home, around    | Monmouth Grain&Dryer | Monmouth Grain&Dryer | 26.80  | 2008     | 11/4/04  | 6.3     | 0.00                         | 175.00           | 540.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2009     | 11/4/04  | 6.3     | 0.00                         | 175.00           | 540.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2010     | 11/4/04  | 6.3     | 0.00                         | 175.00           | 540.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2011     | 11/4/04  | 6.3     | 0.00                         | 175.00           | 540.00             |
| T-1008-4e - Home east of    | Riverland FS         | Riverland FS         | 15.00  | 2008     | 10/20/06 | 6.4     | 0.00                         | 168.00           | 304.00             |
|                             | Riverland FS         | Riverland FS         |        | 2009     | 10/20/06 | 6.4     | 0.00                         | 168.00           | 304.00             |
|                             | Riverland FS         | Riverland FS         |        | 2010     | 10/20/06 | 6.4     | 0.00                         | 168.00           | 304.00             |
|                             | Riverland FS         | Riverland FS         |        | 2011     | 10/20/06 | 6.4     | 0.00                         | 168.00           | 304.00             |
| T-1008-4w - Home, west of   | Riverland FS         | Riverland FS         | 12.80  | 2008     | 10/20/06 | 6.2     | 0.00                         | 193.00           | 279.00             |
|                             | Riverland FS         | Riverland FS         |        | 2009     | 10/20/06 | 6.2     | 0.00                         | 193.00           | 279.00             |
|                             | Riverland FS         | Riverland FS         |        | 2010     | 10/20/06 | 6.2     | 0.00                         | 193.00           | 279.00             |
|                             | Riverland FS         | Riverland FS         |        | 2011     | 10/20/06 | 6.2     | 0.00                         | 193.00           | 279.00             |
| T-1008-5 - Home; South part | Riverland FS         | Riverland FS         | 39.50  | 2008     | 10/20/06 | 6.2     | 0.00                         | 107.80           | 457.80             |
|                             | Riverland FS         | Riverland FS         |        | 2009     | 10/20/06 | 6.2     | 0.00                         | 107.80           | 457.80             |
|                             | Riverland FS         | Riverland FS         |        | 2010     | 10/20/06 | 6.2     | 0.00                         | 107.80           | 457.80             |
|                             | Riverland FS         | Riverland FS         |        | 2011     | 10/20/06 | 6.2     | 0.00                         | 107.80           | 457.80             |
| T-1100-2 & 8 - Downes Place | Riverland FS         | Riverland FS         | 47.00  | 2008     | 10/20/06 | 6.3     | 0.00                         | 152.00           | 276.00             |
|                             | Riverland FS         | Riverland FS         |        | 2009     | 10/20/06 | 6.3     | 0.00                         | 152.00           | 276.00             |
|                             | Riverland FS         | Riverland FS         |        | 2010     | 10/20/06 | 6.3     | 0.00                         | 152.00           | 276.00             |
|                             | Riverland FS         | Riverland FS         |        | 2011     | 10/20/06 | 6.3     | 0.00                         | 152.00           | 276.00             |
| T-1100-6 - Downes Place     | Monmouth Grain&Dryer | Monmouth Grain&Dryer | 128.50 | 2008     | 10/20/04 | 6.3     | 0.00                         | 87.00            | 274.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2009     | 10/20/04 | 6.3     | 0.00                         | 87.00            | 274.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2010     | 10/20/04 | 6.3     | 0.00                         | 87.00            | 274.00             |
|                             | Monmouth Grain&Dryer | Monmouth Grain&Dryer |        | 2011     | 10/20/04 | 6.3     | 0.00                         | 87.00            | 274.00             |

## Production Facility Manure Values

Value of Manure Produced:

| Facility             | Head Capacity | Manure Produced |      | N<br>(lbs/1000<br>gall or<br>lbs/Ton) | P2O5<br>(lbs/1000<br>gall or<br>lbs/Ton) | K2O<br>(lbs/1000<br>gall or<br>lbs/Ton) | Total N<br>(lbs) | Total<br>P2O5<br>(lbs) | Total K2O<br>(lbs) | Value N  | Value<br>P2O5 | Value K2O | Total Value |
|----------------------|---------------|-----------------|------|---------------------------------------|--|---|------------------|------------------------|--------------------|----------|---------------|-----------|-------------|
|                      |               | Gallons         | Tons |                                       |  |   |                  |                        |                    |          |               |           |             |
| Fall Creek Farrowing | 500           | 1,533,000       | 0    | 25.30                                 | 5.60                                     | 14.40                                   | 38,785           | 8,585                  | 22,075             | \$14,738 | \$3,005       | \$5,519   | \$23,262    |
| Fall Creek Gestation | 2,800         | 2,044,000       | 0    | 25.70                                 | 9.70                                     | 12.40                                   | 52,531           | 19,827                 | 25,346             | \$19,962 | \$6,939       | \$6,336   | \$33,237    |
| Fall Creek piglets   | 3,500         | 0               | 0    |                                       |  |   |                  |                        |                    |          |               |           |             |
| Mortality Composter  | 3,300         | 0               | 96   |                                       |  |   |                  |                        |                    |          |               |           |             |
| New Storage Pit      | 0             | 0               | 0    | 25.70                                 | 9.70                                     | 12.40                                   | 0                | 0                      | 0                  | \$0      | \$0           | \$0       | \$0         |
| Total:               | 3,300         | 3,577,000       | 0    |                                       |  |   | 91,316           | 28,412                 | 47,421             | \$34,700 | \$9,944       | \$11,855  | \$56,499    |

## Manure Applied

Value of Manure Applied:

| Field; Storage Name                          | Acres Applied | Date    | N Applied |        | P Applied |       | K Applied |        | Value N |          | Value P |         | Value K |         |
|--|---------------|---------|-----------|--------|-----------|-------|-----------|--------|---------|----------|---------|---------|---------|---------|
|  |               |         | lbs/acre  | Total  | lbs/acre  | Total | lbs/acre  | Total  | \$/acre | Total    | \$/acre | Total   | \$/acre | Total   |
| H-1 - Hogue East New Storage Pit             | 78            | 10/1/08 | 185       | 14,319 | 37        | 2,860 | 106       | 8,214  | \$70    | \$5,441  | \$30    | \$2,292 | \$32    | \$2,464 |
| New Storage Pit                              | 78            | 10/1/10 | 185       | 14,319 | 37        | 2,860 | 106       | 8,214  | \$70    | \$5,441  | \$30    | \$2,292 | \$32    | \$2,464 |
| <i>H-1 - Hogue East Total:</i>               |               |         | 369       | 28,638 | 74        | 5,720 | 212       | 16,428 | \$140   | \$10,882 | \$59    | \$4,585 | \$64    | \$4,928 |
| H-2 - Hogue West New Storage Pit             | 71            | 10/1/08 | 149       | 10,571 | 30        | 2,111 | 85        | 6,064  | \$56    | \$4,017  | \$24    | \$1,692 | \$26    | \$1,819 |
| New Storage Pit                              | 71            | 10/1/09 | 170       | 12,081 | 34        | 2,413 | 97        | 6,930  | \$64    | \$4,591  | \$27    | \$1,934 | \$29    | \$2,079 |
| <i>H-2 - Hogue West Total:</i>               |               |         | 318       | 22,652 | 64        | 4,524 | 183       | 12,994 | \$121   | \$8,608  | \$51    | \$3,626 | \$55    | \$3,898 |
| LT-1 - L New Storage Pit                     | 78            | 10/1/08 | 185       | 14,430 | 37        | 2,882 | 106       | 8,277  | \$70    | \$5,483  | \$30    | \$2,310 | \$32    | \$2,483 |
| New Storage Pit                              | 78            | 10/1/10 | 185       | 14,430 | 37        | 2,882 | 106       | 8,277  | \$70    | \$5,483  | \$30    | \$2,310 | \$32    | \$2,483 |
| <i>LT-1 - L Thompson, SW1/4 Sec 11</i>       |               |         | 369       | 28,860 | 74        | 5,764 | 212       | 16,554 | \$140   | \$10,967 | \$59    | \$4,620 | \$64    | \$4,966 |
| LT-2 - L New Storage Pit                     | 73            | 10/1/09 | 170       | 12,387 | 34        | 2,474 | 97        | 7,105  | \$64    | \$4,707  | \$27    | \$1,983 | \$29    | \$2,132 |
| New Storage Pit                              | 73            | 10/1/10 | 149       | 10,838 | 30        | 2,164 | 85        | 6,217  | \$56    | \$4,118  | \$24    | \$1,734 | \$26    | \$1,865 |
| <i>LT-2 - L Thompson, SW1/4 Sec 11</i>       |               |         | 318       | 23,225 | 64        | 4,638 | 182       | 13,322 | \$121   | \$8,826  | \$51    | \$3,717 | \$55    | \$3,997 |
| LT-3 - L New Storage Pit                     | 9             | 10/1/08 | 185       | 1,698  | 37        | 339   | 106       | 974    | \$70    | \$645    | \$30    | \$272   | \$32    | \$292   |
| New Storage Pit                              | 9             | 10/1/10 | 185       | 1,698  | 37        | 339   | 106       | 974    | \$70    | \$645    | \$30    | \$272   | \$32    | \$292   |
| <i>LT-3 - L Thompson, NW1/4 Sec 11</i>       |               |         | 369       | 3,396  | 74        | 678   | 212       | 1,948  | \$140   | \$1,290  | \$59    | \$543   | \$64    | \$584   |
| LT-4 - L New Storage Pit                     | 39            | 10/1/09 | 170       | 6,601  | 34        | 1,318 | 97        | 3,786  | \$64    | \$2,508  | \$27    | \$1,056 | \$29    | \$1,136 |
| <i>LT-4 - L Thompson, NW1/4 Sec 11</i>       |               |         | 170       | 6,601  | 34        | 1,318 | 97        | 3,786  | \$64    | \$2,508  | \$27    | \$1,056 | \$29    | \$1,136 |
| LT-5 - L New Storage Pit                     | 25            | 10/1/08 | 185       | 4,632  | 37        | 925   | 106       | 2,657  | \$70    | \$1,760  | \$30    | \$741   | \$32    | \$797   |
| New Storage Pit                              | 25            | 10/1/10 | 185       | 4,632  | 37        | 925   | 106       | 2,657  | \$70    | \$1,760  | \$30    | \$741   | \$32    | \$797   |
| <i>LT-5 - L Thompson, SW1/4 Sec 2 Total:</i> |               |         | 369       | 9,264  | 74        | 1,850 | 212       | 5,314  | \$140   | \$3,520  | \$59    | \$1,483 | \$64    | \$1,594 |
| Lucille's 40 - "Miller New Storage Pit       | 37            | 9/28/07 | 297       | 11,046 | 55        | 2,064 | 135       | 5,036  | \$113   | \$4,197  | \$44    | \$1,654 | \$41    | \$1,511 |
| Mortality Composter                          | 37            | 4/21/09 | 63        | 2,344  | 11        | 422   | 27        | 992    | \$24    | \$891    | \$9     | \$338   | \$8     | \$298   |
| New Storage Pit                              | 37            | 10/1/09 | 170       | 6,312  | 34        | 1,261 | 97        | 3,621  | \$64    | \$2,399  | \$27    | \$1,011 | \$29    | \$1,086 |
| <i>Lucille's 40 - "Miller 33" Total:</i>     |               |         | 530       | 19,702 | 101       | 3,747 | 259       | 9,649  | \$201   | \$7,487  | \$81    | \$3,003 | \$78    | \$2,895 |
| T-1008-1 - Home, New Storage Pit             | 43            | 10/1/08 | 185       | 7,898  | 37        | 1,577 | 106       | 4,530  | \$70    | \$3,001  | \$30    | \$1,264 | \$32    | \$1,359 |
| Mortality Composter                          | 43            | 4/21/10 | 71        | 3,033  | 13        | 547   | 30        | 1,284  | \$27    | \$1,153  | \$10    | \$438   | \$9     | \$385   |
| New Storage Pit                              | 43            | 10/1/10 | 170       | 7,262  | 34        | 1,450 | 97        | 4,166  | \$64    | \$2,760  | \$27    | \$1,162 | \$29    | \$1,250 |
| <i>T-1008-1 - Home, west field Total:</i>    |               |         | 425       | 18,193 | 84        | 3,574 | 233       | 9,980  | \$162   | \$6,913  | \$67    | \$2,865 | \$70    | \$2,994 |
| T-1008-2 - Home, New Storage Pit             | 15            | 10/1/08 | 185       | 2,694  | 37        | 538   | 106       | 1,545  | \$70    | \$1,024  | \$30    | \$431   | \$32    | \$464   |
| New Storage Pit                              | 15            | 10/1/10 | 185       | 2,694  | 37        | 538   | 106       | 1,545  | \$70    | \$1,024  | \$30    | \$431   | \$32    | \$464   |
| <i>T-1008-2 - Home, church Total:</i>        |               |         | 369       | 5,388  | 74        | 1,076 | 212       | 3,090  | \$140   | \$2,047  | \$59    | \$862   | \$64    | \$927   |
| T-1008-3E - Home; New Storage Pit            | 37            | 10/1/08 | 185       | 6,791  | 37        | 1,356 | 106       | 3,895  | \$70    | \$2,581  | \$30    | \$1,087 | \$32    | \$1,169 |
| New Storage Pit                              | 37            | 10/1/10 | 185       | 6,791  | 37        | 1,356 | 106       | 3,895  | \$70    | \$2,581  | \$30    | \$1,087 | \$32    | \$1,169 |
| <i>T-1008-3E - Home; North part East 80</i>  |               |         | 369       | 13,582 | 74        | 2,712 | 212       | 7,790  | \$140   | \$5,161  | \$59    | \$2,174 | \$64    | \$2,337 |

|   |     |          |       |         |       |        |       |         |         |           |         |          |           |          |
|---|-----|----------|-------|---------|-------|--------|-------|---------|---------|-----------|---------|----------|-----------|----------|
| T-1008-3W - Home, New Storage Pit             | 27  | 9/28/07  | 304   | 8,140   | 57    | 1,521  | 138   | 3,711   | \$115   | \$3,093   | \$45    | \$1,219  | \$42      | \$1,113  |
| New Storage Pit                               | 27  | 10/1/09  | 170   | 4,547   | 34    | 908    | 97    | 2,609   | \$64    | \$1,728   | \$27    | \$728    | \$29      | \$783    |
| <i>T-1008-3W - Home, around buildings</i>     |     |          | 473   | 12,687  | 91    | 2,429  | 236   | 6,320   | \$180   | \$4,821   | \$73    | \$1,947  | \$71      | \$1,896  |
| T-1008-4e - Home New Storage Pit              | 15  | 10/1/08  | 185   | 2,768   | 37    | 553    | 106   | 1,588   | \$70    | \$1,052   | \$30    | \$443    | \$32      | \$476    |
| New Storage Pit                               | 15  | 10/1/10  | 185   | 2,768   | 37    | 553    | 106   | 1,588   | \$70    | \$1,052   | \$30    | \$443    | \$32      | \$476    |
| <i>T-1008-4e - Home east of drive Total:</i>  |     |          | 369   | 5,536   | 74    | 1,106  | 212   | 3,176   | \$140   | \$2,104   | \$59    | \$886    | \$64      | \$953    |
| T-1008-4w - Home, New Storage Pit             | 12  | 9/28/07  | 302   | 3,738   | 56    | 699    | 137   | 1,704   | \$115   | \$1,420   | \$45    | \$560    | \$41      | \$511    |
| New Storage Pit                               | 12  | 10/1/09  | 170   | 2,104   | 34    | 420    | 97    | 1,207   | \$64    | \$800     | \$27    | \$337    | \$29      | \$362    |
| <i>T-1008-4w - Home, west of driveway</i>     |     |          | 471   | 5,842   | 90    | 1,119  | 235   | 2,911   | \$179   | \$2,220   | \$72    | \$897    | \$70      | \$873    |
| T-1008-5 - Home; New Storage Pit              | 40  | 10/1/08  | 185   | 7,289   | 37    | 1,456  | 106   | 4,181   | \$70    | \$2,770   | \$30    | \$1,167  | \$32      | \$1,254  |
| Mortality Composter                           | 40  | 4/21/11  | 79    | 3,111   | 14    | 561    | 33    | 1,317   | \$30    | \$1,182   | \$11    | \$450    | \$10      | \$395    |
| <i>T-1008-5 - Home; South part East 80</i>    |     |          | 263   | 10,400  | 51    | 2,017  | 139   | 5,498   | \$100   | \$3,952   | \$41    | \$1,617  | \$42      | \$1,649  |
| T-1100-2 & 8 - New Storage Pit                | 47  | 10/1/07  | 243   | 11,399  | 45    | 2,130  | 111   | 5,197   | \$92    | \$4,332   | \$36    | \$1,707  | \$33      | \$1,559  |
| New Storage Pit                               | 47  | 10/1/09  | 170   | 7,975   | 34    | 1,593  | 97    | 4,575   | \$64    | \$3,031   | \$27    | \$1,277  | \$29      | \$1,373  |
| <i>T-1100-2 &amp; 8 - Downes Place Total:</i> |     |          | 412   | 19,374  | 79    | 3,723  | 208   | 9,772   | \$157   | \$7,362   | \$63    | \$2,984  | \$62      | \$2,932  |
| T-1100-6 - Downes New Storage Pit             | 129 | 10/10/07 | 265   | 34,077  | 50    | 6,368  | 121   | 15,536  | \$101   | \$12,949  | \$40    | \$5,104  | \$36      | \$4,661  |
| New Storage Pit                               | 129 | 10/1/09  | 170   | 21,804  | 34    | 4,354  | 97    | 12,507  | \$64    | \$8,286   | \$27    | \$3,490  | \$29      | \$3,752  |
| <i>T-1100-6 - Downes Place Total:</i>         |     |          | 435   | 55,881  | 83    | 10,722 | 218   | 28,043  | \$165   | \$21,235  | \$67    | \$8,594  | \$65      | \$8,413  |
| Grand Total:                                  |     |          | 6,399 | 289,221 | 1,256 | 56,717 | 3,473 | 156,575 | \$2,432 | \$109,904 | \$1,006 | \$45,459 | \$1,042   | \$46,973 |
| Grand Total Value:                            |     |          |       |         |       |        |       |         |         |           |         |          | \$202,335 |          |

## Summary All Years P and K Balance

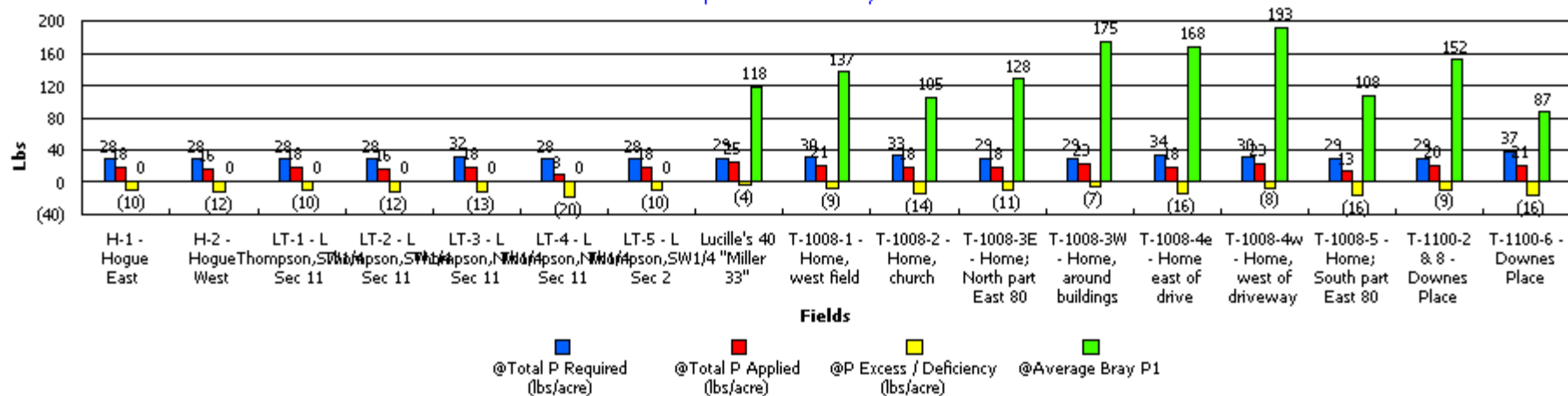
### Phosphorus and Potassium Report:

| Field        | Planted Acres, All Years | Phosphorus   |           |             |           |             |                     |             |                | Potassium |             |           |             |                     |       |           |       |
|--------------|--------------------------|--------------|-----------|-------------|-----------|-------------|---------------------|-------------|----------------|-----------|-------------|-----------|-------------|---------------------|-------|-----------|-------|
|              |                          | Bray P1 Test | Required  |             | Applied   |             | Excess / Deficiency |             | Potassium Test | Required  |             | Applied   |             | Excess / Deficiency |       | Total lbs | lbs / |
|              |                          |              | Total lbs | lbs / acre* | Total lbs | lbs / acre* | Total lbs           | lbs / acre* |                | Total lbs | lbs / acre* | Total lbs | lbs / acre* | Total lbs           | lbs / |           |       |
| H-1          | 310                      | 0            | 8,769     | 28          | 5,720     | 18          | -3,049              | -10         | 0              | 15,520    | 50          | 16,428    | 53          | 908                 | 3     |           |       |
| H-2          | 285                      | 0            | 8,046     | 28          | 4,524     | 16          | -3,522              | -12         | 0              | 14,240    | 50          | 12,994    | 46          | -1,246              | -4    |           |       |
| LT-1         | 313                      | 0            | 8,837     | 28          | 5,764     | 18          | -3,073              | -10         | 0              | 15,640    | 50          | 16,554    | 53          | 914                 | 3     |           |       |
| LT-2         | 292                      | 0            | 8,249     | 28          | 4,638     | 16          | -3,611              | -12         | 0              | 14,600    | 50          | 13,322    | 46          | -1,278              | -4    |           |       |
| LT-3         | 41                       | 0            | 1,164     | 32          | 678       | 18          | -486                | -13         | 0              | 2,060     | 56          | 1,948     | 53          | -112                | -3    |           |       |
| LT-4         | 156                      | 0            | 4,396     | 28          | 1,318     | 8           | -3,078              | -20         | 0              | 7,780     | 50          | 3,786     | 24          | -3,994              | -26   |           |       |
| LT-5         | 100                      | 0            | 2,836     | 28          | 1,850     | 18          | -986                | -10         | 0              | 5,020     | 50          | 5,314     | 53          | 294                 | 3     |           |       |
| Lucille's 40 | 149                      | 118          | 4,341     | 29          | 3,747     | 25          | -594                | -4          | 325            | 7,842     | 53          | 9,649     | 65          | 1,807               | 12    |           |       |
| T-1008-1     | 176                      | 137          | 5,146     | 30          | 3,574     | 21          | -1,572              | -9          | 466            | 9,296     | 54          | 9,980     | 58          | 684                 | 4     |           |       |
| T-1008-2     | 65                       | 105          | 1,902     | 33          | 1,076     | 18          | -826                | -14         | 350            | 3,436     | 59          | 3,090     | 53          | -346                | -6    |           |       |
| T-1008-3E    | 147                      | 128          | 4,295     | 29          | 2,712     | 18          | -1,583              | -11         | 464            | 7,757     | 53          | 7,790     | 53          | 33                  | 0     |           |       |
| T-1008-3W    | 107                      | 175          | 3,128     | 29          | 2,429     | 23          | -699                | -7          | 540            | 5,649     | 53          | 6,320     | 59          | 671                 | 6     |           |       |
| T-1008-4e    | 60                       | 168          | 2,051     | 34          | 1,106     | 18          | -945                | -16         | 304            | 3,162     | 53          | 3,176     | 53          | 14                  | 0     |           |       |
| T-1008-4w    | 51                       | 193          | 1,494     | 30          | 1,119     | 23          | -375                | -8          | 279            | 2,698     | 54          | 2,911     | 59          | 213                 | 4     |           |       |
| T-1008-5     | 158                      | 108          | 4,610     | 29          | 2,017     | 13          | -2,593              | -16         | 458            | 8,327     | 53          | 5,498     | 35          | -2,829              | -18   |           |       |
| T-1100-2 & 8 | 188                      | 152          | 5,485     | 29          | 3,723     | 20          | -1,762              | -9          | 276            | 9,908     | 53          | 9,772     | 52          | -136                | -1    |           |       |
| T-1100-6     | 514                      | 87           | 19,121    | 37          | 10,722    | 21          | -8,399              | -16         | 274            | 40,092    | 78          | 28,043    | 55          | -12,049             | -23   |           |       |
| Total:       | 3,113                    | 63           | 93,868    |             | 56,717    |             | -37,151             |             | 185            | 173,027   |             | 156,575   |             | -16,452             |       |           |       |

\* per spreadable acre

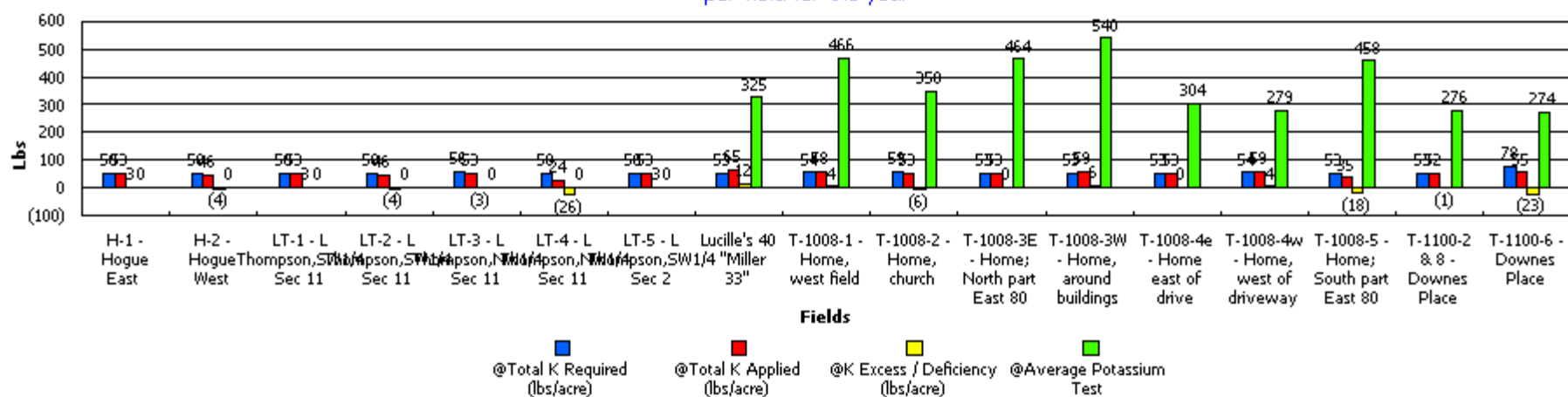
## Phosphorus Balance

per field for the year



## Potassium Balance

per field for the year



## Nutrient Balance - 2008 through 2011

### General Nutrient Budget:

| Crop                    | Acres Planted | Nitrogen* | P2O5**  | K2O     | Average Yield | N    | P    | K    |
|-------------------------|---------------|-----------|---------|---------|---------------|------|------|------|
| Corn, IL-1.2 (Illinois) | 1,557         | 373,584   | 142,028 | 85,924  | 200           | 1.20 | 0.19 | 0.23 |
| Soybeans (Illinois)     | 1,557         | 270,171   | 72,929  | 121,709 | 53            | 3.30 | 0.37 | 1.08 |

### Total Crop Nutrients Utilized:

|                      |       |         |         |         |
|----------------------|-------|---------|---------|---------|
| For All Crops        | 3,113 | 643,755 | 214,957 | 207,633 |
| For Non Legume Crops | 1,557 | 373,584 | 142,028 | 85,924  |

### Nutrients Required Per Acre

|                          |     |    |    |
|--------------------------|-----|----|----|
| Average All Crops        | 207 | 69 | 67 |
| Average Non Legume Crops | 240 | 91 | 55 |

\* Based on recommended nitrogen for corn and 3.3 lb N per bushel yield for soybeans.

\*\* Based on crop removal rates.

### Total Manure Quantity and Total Estimated Nutrients:

| Type of Manure         | Annual Collected | Units   | Lbs. Nitrogen | Lbs. P2O5 | Lbs. K2O |
|------------------------|------------------|---------|---------------|-----------|----------|
| Liquid Manure          | 14,308,000       | Gallons | 391,426       | 192,545   | 208,386  |
| Solid Manure           | 385              | Tons    | 15,610        | 3,758     | 4,625    |
| Total Manure Nutrients |                  |         | 407,036       | 196,303   | 213,011  |

| TOTAL NUTRIENTS PRODUCED:                          | Avail. Nitrogen*** | P2O5    | K2O     |
|--|--------------------|---------|---------|
| Total Manure Nutrients                             | 407,036            | 196,303 | 213,011 |
| Nutrient Balance (Supplied By Manure - Crop Needs) | -236,719           | -18,654 | 5,378   |
| Nutrient Balance If No Manure On Legumes           | 33,452             | 54,275  | 127,087 |

| TOTAL PLANTED ACRES IN ALL PLAN YEARS:  | Acres | Acres / Year |
|---|-------|--------------|
| Average Acres Needed To Utilize Available Manure P2O5 At Crop Removal         | 2,843 | 711          |
| Additional Acres Needed To Apply Manure At P2O5 Crop Removal                  | -270  | -68          |
| Average Acres Needed To Utilize Available Manure N At Crop Need (All Crops)   | 1,968 | 492          |
| Average Acres Needed To Utilize Available Manure N At Crop Need (Non-Legumes) | 1,696 | 424          |

\*\*\* Based on maximum nitrogen available the first year after application.

Actual Nitrogen available to plants is contingent on the following: 1) Application Losses & 2) Organic N that Mineralizes in future

## Projected Soil P and K Levels

Projected Soil P and K Levels for existing facilities:

Plan Year: 2008 Number of Plan Years: 4

| Field Name                           | Units      | P at Start | P at End | K at Start | K at End | Units      | P Balance | Net P1 Soil Change | K Balance | Net K Soil Change |
|--------------------------------------|------------|------------|----------|------------|----------|------------|-----------|--------------------|-----------|-------------------|
| H-1 - Hogue East                     | Lbs / Acre | 0          | -10      | 0          | 4        | Lbs / Acre | -10       | -3                 | 3         | 1                 |
| H-2 - Hogue West                     | Lbs / Acre | 0          | -13      | 0          | -5       | Lbs / Acre | -12       | -3                 | -4        | -1                |
| LT-1 - L Thompson,SW1/4 Sec 11       | Lbs / Acre | 0          | -10      | 0          | 4        | Lbs / Acre | -10       | -3                 | 3         | 1                 |
| LT-2 - L Thompson,SW1/4 Sec 11       | Lbs / Acre | 0          | -13      | 0          | -5       | Lbs / Acre | -12       | -3                 | -4        | -1                |
| LT-3 - L Thompson,NW1/4 Sec 11       | Lbs / Acre | 0          | -14      | 0          | -4       | Lbs / Acre | -13       | -3                 | -3        | -1                |
| LT-4 - L Thompson,NW1/4 Sec 11       | Lbs / Acre | 0          | -20      | 0          | -31      | Lbs / Acre | -20       | -5                 | -26       | -8                |
| LT-5 - L Thompson,SW1/4 Sec 2        | Lbs / Acre | 0          | -10      | 0          | 4        | Lbs / Acre | -10       | -3                 | 3         | 1                 |
| Lucille's 40 - "Miller 33"           | Lbs / Acre | 118        | 114      | 325        | 340      | Lbs / Acre | -4        | -1                 | 12        | 4                 |
| T-1008-1 - Home, west field          | Lbs / Acre | 137        | 128      | 466        | 471      | Lbs / Acre | -9        | -2                 | 4         | 1                 |
| T-1008-2 - Home, church              | Lbs / Acre | 105        | 90       | 350        | 343      | Lbs / Acre | -14       | -4                 | -6        | -2                |
| T-1008-3E - Home; North part East 80 | Lbs / Acre | 128        | 117      | 464        | 465      | Lbs / Acre | -11       | -3                 | 0         | 0                 |
| T-1008-3W - Home, around buildings   | Lbs / Acre | 175        | 168      | 540        | 548      | Lbs / Acre | -7        | -2                 | 6         | 2                 |
| T-1008-4e - Home east of drive       | Lbs / Acre | 168        | 152      | 304        | 304      | Lbs / Acre | -16       | -4                 | 0         | 0                 |
| T-1008-4w - Home, west of driveway   | Lbs / Acre | 193        | 185      | 279        | 284      | Lbs / Acre | -8        | -2                 | 4         | 1                 |
| T-1008-5 - Home; South part East 80  | Lbs / Acre | 108        | 91       | 458        | 436      | Lbs / Acre | -16       | -4                 | -18       | -5                |
| T-1100-2 & 8 - Downes Place          | Lbs / Acre | 152        | 142      | 276        | 275      | Lbs / Acre | -9        | -2                 | -1        | 0                 |
| T-1100-6 - Downes Place              | Lbs / Acre | 87         | 70       | 274        | 246      | Lbs / Acre | -16       | -4                 | -23       | -7                |

## Manure Summary

## Manure Summary:

| Manure Application and Allocation                              | Manure Produced             | Manure Transferred | Planned Applications         | Recorded Applications |
|--|-----------------------------|--------------------|------------------------------|-----------------------|
| <b>2008</b>  |                             |                    |                              |                       |
| Annual Manure & Waste water Production: Fall Creek Farrowing   | 1,533,000                   |                    |                              |                       |
| Annual Manure & Waste water Production: Fall Creek Gestation   | 2,044,000                   |                    |                              |                       |
| Annual Manure & Waste water Production: New Storage Pit        |                             |                    |                              |                       |
| Estimated Application to: Lucille's 40 - "Miller 33"           |                             |                    | 487,320                      |                       |
| Estimated Application to: T-1008-3W - Home, around buildings   |                             |                    | 359,120                      |                       |
| Estimated Application to: T-1008-4w - Home, west of driveway   |                             |                    | 164,920                      |                       |
| Estimated Application to: T-1100-2 & 8 - Downes Place          |                             |                    | 502,900                      |                       |
| Estimated Application to: T-1100-6 - Downes Place              |                             |                    | 1,503,450                    |                       |
| 2008 Total:  | 3,577,000 gal               |                    | 3,017,710 gal                |                       |
| <b>2009</b>  |                             |                    |                              |                       |
| Annual Manure & Waste water Production: Fall Creek Farrowing   | 1,533,000                   |                    |                              |                       |
| Annual Manure & Waste water Production: Fall Creek Gestation   | 2,044,000                   |                    |                              |                       |
| Annual Manure & Waste water Production: Mortality Composter    | 96 Tons                     |                    |                              |                       |
| Annual Manure & Waste water Production: New Storage Pit        |                             |                    |                              |                       |
| Estimated Application to: H-1 - Hogue East                     |                             |                    | 675,120                      |                       |
| Estimated Application to: H-2 - Hogue West                     |                             |                    | 498,400                      |                       |
| Estimated Application to: LT-1 - L Thompson,SW1/4 Sec 11       |                             |                    | 680,340                      |                       |
| Estimated Application to: LT-3 - L Thompson,NW1/4 Sec 11       |                             |                    | 80,040                       |                       |
| Estimated Application to: LT-5 - L Thompson,SW1/4 Sec 2        |                             |                    | 218,370                      |                       |
| Estimated Application to: Lucille's 40 - "Miller 33"           |                             |                    | 74                           |                       |
| Estimated Application to: T-1008-1 - Home, west field          |                             |                    | 372,360                      |                       |
| Estimated Application to: T-1008-2 - Home, church              |                             |                    | 127,020                      |                       |
| Estimated Application to: T-1008-3E - Home; North part East 80 |                             |                    | 320,160                      |                       |
| Estimated Application to: T-1008-4e - Home east of drive       |                             |                    | 130,500                      |                       |
| Estimated Application to: T-1008-5 - Home; South part East 80  |                             |                    | 343,650                      |                       |
| 2009 Total:  | 3,577,000 gallon<br>96 tons |                    | 3,446,960 gallons<br>74 tons |                       |
| <b>2010</b>  |                             |                    |                              |                       |
| Annual Manure & Waste water Production: Fall Creek Farrowing   | 1,533,000                   |                    |                              |                       |
| Annual Manure & Waste water Production: Fall Creek Gestation   | 2,044,000                   |                    |                              |                       |
| Annual Manure & Waste water Production: Mortality Composter    | 96 tons                     |                    |                              |                       |
| Annual Manure & Waste water Production: New Storage Pit        |                             |                    |                              |                       |
| Estimated Application to: H-2 - Hogue West                     |                             |                    | 569,600                      |                       |
| Estimated Application to: LT-2 - L Thompson,SW1/4 Sec 11       |                             |                    | 584,000                      |                       |
| Estimated Application to: LT-4 - L Thompson,NW1/4 Sec 11       |                             |                    | 311,200                      |                       |
| Estimated Application to: Lucille's 40 - "Miller 33"           |                             |                    | 297,600                      |                       |
| Estimated Application to: T-1008-1 - Home, west field          |                             |                    | 96                           |                       |
| Estimated Application to: T-1008-3W - Home, around buildings   |                             |                    | 214,400                      |                       |
| Estimated Application to: T-1008-4w - Home, west of driveway   |                             |                    | 99,200                       |                       |
| Estimated Application to: T-1100-2 & 8 - Downes Place          |                             |                    | 376,000                      |                       |

|  |                              |  |
|--|------------------------------|--|
| Estimated Application to: T-1100-6 - Downes Place              |                              | 1,028,000                              |
| 2010 Total:  | 3,577,000 gallons<br>96 tons | 3,480,000 gallons<br>96 tons           |
| <b>2011</b>  |                              |  |
| Annual Manure & Waste water Production: Fall Creek Farrowing   |                              | 1,533,000                              |
| Annual Manure & Waste water Production: Fall Creek Gestation   |                              | 2,044,000                              |
| Annual Manure & Waste water Production: Mortality Composter    |                              | 96 tons                                |
| Annual Manure & Waste water Production: New Storage Pit        |                              |  |
| Estimated Application to: H-1 - Hogue East                     |                              | 675,120                                |
| Estimated Application to: LT-1 - L Thompson,SW1/4 Sec 11       |                              | 680,340                                |
| Estimated Application to: LT-2 - L Thompson,SW1/4 Sec 11       |                              | 511,000                                |
| Estimated Application to: LT-3 - L Thompson,NW1/4 Sec 11       |                              | 80,040                                 |
| Estimated Application to: LT-5 - L Thompson,SW1/4 Sec 2        |                              | 218,370                                |
| Estimated Application to: T-1008-1 - Home, west field          |                              | 342,400                                |
| Estimated Application to: T-1008-2 - Home, church              |                              | 127,020                                |
| Estimated Application to: T-1008-3E - Home; North part East 80 |                              | 320,160                                |
| Estimated Application to: T-1008-4e - Home east of drive       |                              | 130,500                                |
| Estimated Application to: T-1008-5 - Home; South part East 80  |                              | 99                                     |
| 2011 Total:  | 3,577,000 gallons<br>96 tons | 3,085,950 gallons<br>99 tons           |
| <b>Manure Produced Grand Total:</b>                            |                              | <b>14,308,000 gallons<br/>288 tons</b> |
| <b>Manure Transferred Grand Total:</b>                         |                              |  |
| <b>Planned Manure Applications Grand Total:</b>                |                              | <b>13,028,620 gallons<br/>269 tons</b> |
| <b>Recorded Manure Applications Grand Total:</b>               |                              |  |

## Crop Rotation - All Years

Crop Rotation:

| Field                          | Plan Year                             | Crop Name   | Acres Planted | Yield Potential | NRequired | PRequired | KRequired |
|--------------------------------|---------------------------------------|-------------|---------------|-----------------|-----------|-----------|-----------|
| H-1 - Hogue East               | 2008                                  | Soybeans    | 78            | 50              | 12,804    | 1,436     | 4,190     |
|                                | 2009                                  | Corn,IL-1.2 | 78            | 200             | 18,624    | 2,949     | 3,570     |
|                                | 2010                                  | Soybeans    | 78            | 50              | 12,804    | 1,436     | 4,190     |
|                                | 2011                                  | Corn,IL-1.2 | 78            | 200             | 18,624    | 2,949     | 3,570     |
|                                | H-1 - Hogue East Total:               |             |               |                 | 62,856    | 8,769     | 15,520    |
| H-2 - Hogue West               | 2008                                  | Corn,IL-1.2 | 71            | 200             | 17,088    | 2,706     | 3,275     |
|                                | 2009                                  | Soybeans    | 71            | 50              | 11,748    | 1,317     | 3,845     |
|                                | 2010                                  | Corn,IL-1.2 | 71            | 200             | 17,088    | 2,706     | 3,275     |
|                                | 2011                                  | Soybeans    | 71            | 50              | 11,748    | 1,317     | 3,845     |
|                                | H-2 - Hogue West Total:               |             |               |                 | 57,672    | 8,046     | 14,240    |
| LT-1 - L Thompson,SW1/4 Sec 11 | 2008                                  | Soybeans    | 78            | 50              | 12,903    | 1,447     | 4,223     |
|                                | 2009                                  | Corn,IL-1.2 | 78            | 200             | 18,768    | 2,972     | 3,597     |
|                                | 2010                                  | Soybeans    | 78            | 50              | 12,903    | 1,447     | 4,223     |
|                                | 2011                                  | Corn,IL-1.2 | 78            | 200             | 18,768    | 2,972     | 3,597     |
|                                | LT-1 - L Thompson,SW1/4 Sec 11 Total: |             |               |                 | 63,342    | 8,837     | 15,640    |
| LT-2 - L Thompson,SW1/4 Sec 11 | 2008                                  | Corn,IL-1.2 | 73            | 200             | 17,520    | 2,774     | 3,358     |
|                                | 2009                                  | Soybeans    | 73            | 50              | 12,045    | 1,351     | 3,942     |
|                                | 2010                                  | Corn,IL-1.2 | 73            | 200             | 17,520    | 2,774     | 3,358     |
|                                | 2011                                  | Soybeans    | 73            | 50              | 12,045    | 1,351     | 3,942     |
|                                | LT-2 - L Thompson,SW1/4 Sec 11 Total: |             |               |                 | 59,130    | 8,249     | 14,600    |
| LT-3 - L Thompson,NW1/4 Sec 11 | 2008                                  | Soybeans    | 10            | 50              | 1,700     | 191       | 556       |
|                                | 2009                                  | Corn,IL-1.2 | 10            | 200             | 2,472     | 391       | 474       |
|                                | 2010                                  | Soybeans    | 10            | 50              | 1,700     | 191       | 556       |
|                                | 2011                                  | Corn,IL-1.2 | 10            | 200             | 2,472     | 391       | 474       |
|                                | LT-3 - L Thompson,NW1/4 Sec 11 Total: |             |               |                 | 8,343     | 1,164     | 2,060     |
| LT-4 - L Thompson,NW1/4 Sec 11 | 2008                                  | Corn,IL-1.2 | 39            | 200             | 9,336     | 1,478     | 1,789     |
|                                | 2009                                  | Soybeans    | 39            | 50              | 6,419     | 720       | 2,101     |
|                                | 2010                                  | Corn,IL-1.2 | 39            | 200             | 9,336     | 1,478     | 1,789     |
|                                | 2011                                  | Soybeans    | 39            | 50              | 6,419     | 720       | 2,101     |
|                                | LT-4 - L Thompson,NW1/4 Sec 11 Total: |             |               |                 | 31,509    | 4,396     | 7,780     |
| LT-5 - L Thompson,SW1/4 Sec 2  | 2008                                  | Soybeans    | 25            | 50              | 4,142     | 464       | 1,355     |
|                                | 2009                                  | Corn,IL-1.2 | 25            | 200             | 6,024     | 954       | 1,155     |
|                                | 2010                                  | Soybeans    | 25            | 50              | 4,142     | 464       | 1,355     |
|                                | 2011                                  | Corn,IL-1.2 | 25            | 200             | 6,024     | 954       | 1,155     |
|                                | LT-5 - L Thompson,SW1/4 Sec 2 Total:  |             |               |                 | 20,331    | 2,836     | 5,020     |
| Lucille's 40 - "Miller 33"     | 2008                                  | Corn,IL-1.2 | 37            | 200             | 8,928     | 1,414     | 1,711     |
|                                | 2009                                  | Soybeans    | 37            | 55              | 6,752     | 757       | 2,210     |
|                                | 2010                                  | Corn,IL-1.2 | 37            | 200             | 8,928     | 1,414     | 1,711     |

|   |      |             |    |     |        |       |       |
|---|------|-------------|----|-----|--------|-------|-------|
| Lucille's 40 - "Miller 33"                  | 2011 | Soybeans    | 37 | 55  | 6,752  | 757   | 2,210 |
| Lucille's 40 - "Miller 33" Total:           |      |             |    |     | 31,360 | 4,341 | 7,842 |
| T-1008-1 - Home, west field                 | 2008 | Soybeans    | 44 | 55  | 8,004  | 897   | 2,620 |
|   | 2009 | Corn,IL-1.2 | 44 | 200 | 10,584 | 1,676 | 2,029 |
|   | 2010 | Soybeans    | 44 | 55  | 8,004  | 897   | 2,620 |
|   | 2011 | Corn,IL-1.2 | 44 | 200 | 10,584 | 1,676 | 2,029 |
| T-1008-1 - Home, west field Total:          |      |             |    |     | 37,176 | 5,146 | 9,296 |
| T-1008-2 - Home, church                     | 2008 | Soybeans    | 16 | 55  | 2,958  | 332   | 968   |
|   | 2009 | Corn,IL-1.2 | 16 | 200 | 3,912  | 619   | 750   |
|   | 2010 | Soybeans    | 16 | 55  | 2,958  | 332   | 968   |
|   | 2011 | Corn,IL-1.2 | 16 | 200 | 3,912  | 619   | 750   |
| T-1008-2 - Home, church Total:              |      |             |    |     | 13,741 | 1,902 | 3,436 |
| T-1008-3E - Home; North part East 80        | 2008 | Soybeans    | 37 | 55  | 6,679  | 749   | 2,186 |
|   | 2009 | Corn,IL-1.2 | 37 | 200 | 8,832  | 1,398 | 1,693 |
|   | 2010 | Soybeans    | 37 | 55  | 6,679  | 749   | 2,186 |
|   | 2011 | Corn,IL-1.2 | 37 | 200 | 8,832  | 1,398 | 1,693 |
| T-1008-3E - Home; North part East 80 Total: |      |             |    |     | 31,022 | 4,295 | 7,757 |
| T-1008-3W - Home, around buildings          | 2008 | Corn,IL-1.2 | 27 | 200 | 6,432  | 1,018 | 1,233 |
|   | 2009 | Soybeans    | 27 | 55  | 4,864  | 545   | 1,592 |
|   | 2010 | Corn,IL-1.2 | 27 | 200 | 6,432  | 1,018 | 1,233 |
|   | 2011 | Soybeans    | 27 | 55  | 4,864  | 545   | 1,592 |
| T-1008-3W - Home, around buildings Total:   |      |             |    |     | 22,592 | 3,128 | 5,649 |
| T-1008-4e - Home east of drive              | 2008 | Soybeans    | 15 | 55  | 2,723  | 305   | 891   |
|   | 2009 | Corn,IL-1.2 | 15 | 200 | 3,600  | 720   | 690   |
|   | 2010 | Soybeans    | 15 | 55  | 2,723  | 305   | 891   |
|   | 2011 | Corn,IL-1.2 | 15 | 200 | 3,600  | 720   | 690   |
| T-1008-4e - Home east of drive Total:       |      |             |    |     | 12,645 | 2,051 | 3,162 |
| T-1008-4w - Home, west of driveway          | 2008 | Corn,IL-1.2 | 13 | 200 | 3,072  | 486   | 589   |
|   | 2009 | Soybeans    | 13 | 55  | 2,323  | 260   | 760   |
|   | 2010 | Corn,IL-1.2 | 13 | 200 | 3,072  | 486   | 589   |
|   | 2011 | Soybeans    | 13 | 55  | 2,323  | 260   | 760   |
| T-1008-4w - Home, west of driveway Total:   |      |             |    |     | 10,790 | 1,494 | 2,698 |
| T-1008-5 - Home; South part East 80         | 2008 | Soybeans    | 40 | 55  | 7,169  | 804   | 2,346 |
|   | 2009 | Corn,IL-1.2 | 40 | 200 | 9,480  | 1,501 | 1,817 |
|   | 2010 | Soybeans    | 40 | 55  | 7,169  | 804   | 2,346 |
|   | 2011 | Corn,IL-1.2 | 40 | 200 | 9,480  | 1,501 | 1,817 |
| T-1008-5 - Home; South part East 80 Total:  |      |             |    |     | 33,299 | 4,610 | 8,327 |
| T-1100-2 & 8 - Downes Place                 | 2008 | Corn,IL-1.2 | 47 | 200 | 11,280 | 1,786 | 2,162 |
|   | 2009 | Soybeans    | 47 | 55  | 8,531  | 956   | 2,792 |
|   | 2010 | Corn,IL-1.2 | 47 | 200 | 11,280 | 1,786 | 2,162 |
|   | 2011 | Soybeans    | 47 | 55  | 8,531  | 956   | 2,792 |
| T-1100-2 & 8 - Downes Place Total:          |      |             |    |     | 39,621 | 5,485 | 9,908 |

|                                |      |             |     |     |         |        |         |
|--------------------------------|------|-------------|-----|-----|---------|--------|---------|
| T-1100-6 - Downes Place        | 2008 | Corn,IL-1.2 | 129 | 200 | 30,840  | 6,168  | 5,911   |
|                                | 2009 | Soybeans    | 129 | 55  | 23,323  | 3,392  | 14,135  |
|                                | 2010 | Corn,IL-1.2 | 129 | 200 | 30,840  | 6,168  | 5,911   |
|                                | 2011 | Soybeans    | 129 | 55  | 23,323  | 3,392  | 14,135  |
| T-1100-6 - Downes Place Total: |      |             |     |     | 108,326 | 19,121 | 40,092  |
| Grand Total:                   |      |             |     |     | 643,755 | 93,868 | 173,027 |