

| Fields available for land application |               |             | Timing & Limitations for a land application  | Outcome of the assessment of the potential for nutrient transport                                |                  | Crop year  | Planned crops or other use | Realistic annual yield goal | Max lbs N/Ac derived from all sources | Max lbs P2O5/Ac derived from all sources | Max lbs K2O/Ac derived from all sources | Alternative crop |                           |                              |                             |  |
|---------------------------------------|---------------|-------------|--|--|------------------|------------|----------------------------|-----------------------------|---------------------------------------|--|---|------------------|---------------------------|------------------------------|-----------------------------|--|
| Field                                 | Sub-field     | Total acres |  | Allowable manure application rate  | Alternative crop |            |                            |                             |                                       |  |   | Yield goal       | Total N/Ac recommendation | Total P2O5/Ac recommendation | Total K2O/Ac recommendation |  |
| CMU 1                                 | F225 - T1229  | 36.01       | Liquids shall be injected in a manner that prevents runoff and odor. Surface application may only be applied per notes 1-7 Below | Manure shall not be applied in excess of any of the nutrient (N, P or K) needs of the next crop. | 2013             | Corn Grain | 160 bu/ac                  | 1 Year Corn Grain           | 1 Year Corn Grain                     | 1 Year Corn Grain                        | Soybeans                                | 50 bu/ac         | 190                       | 42                           | 65                          |  |
|                                       |               |             |  |  | 2014             | Corn Grain | 160 bu/ac                  | 192 lb/ac                   | 68 lb/ac                              | 45 lb/ac                                 | Corn Grain                              | 160 bu/ac        | 192                       | 68                           | 45                          |  |
|                                       |               |             |  |  | 2015             | Corn Grain | 160 bu/ac                  |                             |                                       |  | Alternate Crop for All Years            |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2016             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2017             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2018             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
| CMU 2                                 | F5397 - T4418 | 51.44       | Liquids shall be injected in a manner that prevents runoff and odor. Surface application may only be applied per notes 1-7 Below | Manure shall not be applied in excess of any of the nutrient (N, P or K) needs of the next crop. | 2013             | Corn Grain | 160 bu/ac                  | 1 Year Corn Grain           | 1 Year Corn Grain                     | 1 Year Corn Grain                        | Soybeans                                | 50 bu/ac         | 190                       | 42                           | 65                          |  |
|                                       |               |             |  |  | 2014             | Corn Grain | 160 bu/ac                  | 192 lb/ac                   | 68 lb/ac                              | 45 lb/ac                                 | Corn Grain                              | 160 bu/ac        | 192                       | 68                           | 45                          |  |
|                                       |               |             |  |  | 2015             | Corn Grain | 160 bu/ac                  |                             |                                       |  | Alternate Crop for All Years            |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2016             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2017             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2018             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
| CMU 3                                 | F5181 - T2209 | 94.3        | Liquids shall be injected in a manner that prevents runoff and odor. Surface application may only be applied per notes 1-7 Below | Manure shall not be applied in excess of any of the nutrient (N, P or K) needs of the next crop. | 2013             | Corn Grain | 160 bu/ac                  | 1 Year Corn Grain           | 1 Year Corn Grain                     | 1 Year Corn Grain                        | Soybeans                                | 50 bu/ac         | 190                       | 42                           | 65                          |  |
|                                       |               |             |  |  | 2014             | Corn Grain | 160 bu/ac                  | 192 lb/ac                   | 68 lb/ac                              | 45 lb/ac                                 | Corn Grain                              | 160 bu/ac        | 192                       | 68                           | 45                          |  |
|                                       |               |             |  |  | 2015             | Corn Grain | 160 bu/ac                  |                             |                                       |  | Alternate Crop for All Years            |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2016             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2017             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2018             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
| CMU 4                                 | F5545 - T3875 | 39.39       | Liquids shall be injected in a manner that prevents runoff and odor. Surface application may only be applied per notes 1-7 Below | Manure shall not be applied in excess of any of the nutrient (N, P or K) needs of the next crop. | 2013             | Corn Grain | 160 bu/ac                  | 1 Year Corn Grain           | 1 Year Corn Grain                     | 1 Year Corn Grain                        | Soybeans                                | 50 bu/ac         | 190                       | 42                           | 65                          |  |
|                                       |               |             |  |  | 2014             | Corn Grain | 160 bu/ac                  | 192 lb/ac                   | 68 lb/ac                              | 45 lb/ac                                 | Corn Grain                              | 160 bu/ac        | 192                       | 68                           | 45                          |  |
|                                       |               |             |  |  | 2015             | Corn Grain | 160 bu/ac                  |                             |                                       |  | Alternate Crop for All Years            |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2016             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2017             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2018             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
| CMU 5                                 | F5545 - T3874 | 35.57       | Liquids shall be injected in a manner that prevents runoff and odor. Surface application may only be applied per notes 1-7 Below | Manure shall not be applied in excess of any of the nutrient (N, P or K) needs of the next crop. | 2013             | Corn Grain | 160 bu/ac                  | 1 Year Corn Grain           | 1 Year Corn Grain                     | 1 Year Corn Grain                        | Soybeans                                | 50 bu/ac         | 190                       | 42                           | 65                          |  |
|                                       |               |             |  |  | 2014             | Corn Grain | 160 bu/ac                  | 192 lb/ac                   | 68 lb/ac                              | 45 lb/ac                                 | Corn Grain                              | 160 bu/ac        | 192                       | 68                           | 45                          |  |
|                                       |               |             |  |  | 2015             | Corn Grain | 160 bu/ac                  |                             |                                       |  | Alternate Crop for All Years            |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2016             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2017             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |
|                                       |               |             |  |  | 2018             | Corn Grain | 160 bu/ac                  |                             |                                       |  |   |                  |                           |                              |                             |  |

Notes:

- 1) at a rate that does not exceed the soil intake rate and to preclude runoff
- 2) when ground is not frozen, saturated, or ice/snow covered
- 3) when the soil surface has a minimum 50% vegetation or crop residue
- 4) when wind is not in the direction of neighboring residence within 1/2 mile of the field
- 5) when precipitation is not forecasted within 24 hours
- 6) within 100 feet of an open surface intake or other conduit to surface water except 35 feet is allowed when protected by a minimum 35 foot vegetative buffer
- 7) and provisions o through u for 8 IAC 900.803 found in section 7

| Potential Rotation        | Potential Crop | Yield |           | N        | P2O5     | K2O      |
|---------------------------|----------------|-------|-----------|----------|----------|----------|
|                           |                | Goal  | Unit/Acre | (lbs/ac) | (lbs/ac) | (lbs/ac) |
| Continuous Corn           | Corn Grain     | 160   | bu/ac     | 192      | 68       | 45       |
| Alternate Crop - Soybeans | Soybeans       | 50    | bu/ac     | 190      | 42       | 65       |

| Manure Source                     | Amount | Units    | Nitrogen |         |         |         |
|-----------------------------------|--------|----------|----------|---------|---------|---------|
|                                   |        |          | NH3      | Org. N  | TOTAL N | 1YR PAN |
|                                   |        |          | lb/unit  | lb/unit | lb/unit | lb/unit |
| Swine Effluent Waste Holding Pond | 1600   | 1000 gal | 2.00     | 1.00    | 3.0     | 2.30    |

| Manure Source                     | Amount | Units    | P2O5    | K2O     |
|-----------------------------------|--------|----------|---------|---------|
|                                   |        |          | lb/unit | lb/unit |
| Swine Effluent Waste Holding Pond | 1600   | 1000 gal | 1.80    | 9.3     |

| Manure Application Rates          | Units       | CR1     |         | CR2     |         |  |  |
|-----------------------------------|-------------|---------|---------|---------|---------|--|--|
|                                   |             | N-Based | P-Based | N-Based | P-Based |  |  |
| Swine Effluent Waste Holding Pond | 1000 gal/ac | 83      | 38      | 83      | 23      |  |  |

\* Maximum recommended application rate for corn is 32,000 gallons per acre.

Supplement with N and P as per Illinois Agronomy Handbook

\* Maximum recommended application rate for soybeans is 24,000 gallons per acre.

| Minimum Manure Application Acres  | Amount | CR1     |         | CR2     |         |  |  |
|-----------------------------------|--------|---------|---------|---------|---------|--|--|
|                                   |        | N-Based | P-Based | N-Based | P-Based |  |  |
| Swine Effluent Waste Holding Pond | 1600   | 19      | 42      | 19      | 69      |  |  |

| Manure Source                     | Amount | Units    | PAN     | P2O5    | K2O     | PAN  | P2O5 | K2O   |
|-----------------------------------|--------|----------|---------|---------|---------|------|------|-------|
|                                   |        |          | lb/unit | lb/unit | lb/unit | lb   | lb   | lb    |
| Swine Effluent Waste Holding Pond | 1600   | 1000 gal | 2.3     | 1.8     | 9.3     | 3680 | 2880 | 14880 |
|                                   |        |          |         |         |         | 3680 | 2880 | 14880 |

| Potential Rotation        | Potential Crop | Acres | N        | P2O5     | K2O      | N        | P2O5     | K2O      |
|---------------------------|----------------|-------|----------|----------|----------|----------|----------|----------|
|                           |                |       | (lbs/ac) | (lbs/ac) | (lbs/ac) | (lbs/ac) | (lbs/ac) | (lbs/ac) |
| Corn Grain                | Corn           | 256.7 | 192      | 68       | 45       | 49286    | 17456    | 11552    |
| Alternate Crop - Soybeans | Soybeans       | 0     | 190      | 42       | 65       | 0        | 0        | 0        |
|                           |                | 0     |          |          |          | 49286    | 17456    | 11552    |
|                           |                |       |          |          |          | -45606   | -14576   | 3329     |

\*\*\* Recommend spreading before corn on 50 acres at 32,000 gallons per acre.

\*\*\* Recommend spreading before Soybeans on 67 acres at 24,000 gallons per acre.

