<table>
<thead>
<tr>
<th>Field No.</th>
<th>Acres</th>
<th>Soil Test Phosphorus (STP)</th>
<th>Crop Rotation / Sequence</th>
<th>Planned Application Date or Timing</th>
<th>Planned Application Rate (1,000 gal/ac)</th>
<th>Liquid or Commercial Fertilizer (L or C)</th>
<th>Actual Application Date</th>
<th>Actual Application Rate (1,000 gal/ac)</th>
<th>Weather at Time of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>18</td>
<td>S38</td>
<td>Corn Silage (Ton)</td>
<td>Spring 2020</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>24 Hours Before</td>
</tr>
<tr>
<td>A</td>
<td>20</td>
<td>S53</td>
<td>Corn Silage (Ton)</td>
<td>Spring 2020</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>24 Hours After</td>
</tr>
<tr>
<td>0</td>
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</tr>
</tbody>
</table>

1. Where land application is occurring under long term lease or agreement with adjacent landowner, fields must be included in the above table.
2. Fields that have a ‘High’ soil test phosphorus (>400) should implement Best Management Practices (BMPs) to reduce the risk of nutrient movement to sensitive waterbodies. BMPs may include, but not be limited to: installing conservation buffers, reducing P2OS application rate, incorporating manure, adding chemical treatments to litter that tie up soluble P and keep it from moving over the landscape, and/or adjusting application timing.
3. It is illegal to make land applications when the ground is frozen. It is recommended that land applications are not made within 48 hours of forecasted precipitation.
### Liquids Worksheet 2 - Nutrient Balance

<table>
<thead>
<tr>
<th>Tract</th>
<th>Field No</th>
<th>Acres</th>
<th>Soil Test P Value (Wetflined)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>18</td>
<td></td>
<td>5.38</td>
</tr>
</tbody>
</table>

#### 1. Crop or Crop Sequence/Rotation
- Corn Silage [Tons]

#### 2. Realistic Yield (Average from 5-10 Years on a per acre basis)
- N: 20.0

#### 3. Plant Nutrients Needed or Allowed (lbs/ac)
- N: 194
- P2O5: 72
- K2O: 160

#### 4. Adjusted P2O5 Application Rate According to Threshold
- 72

#### 5. Fertilizer Credits (lbs/ac)

#### 6. Plant Nutrients Needed Minus Credits (lbs/ac)
- N: 194
- P2O5: 72
- K2O: 160

#### 7. Nutrients in Manure (lbs/1,000 gallons)
- N: 1.0
- P2O5: 1.0
- K2O: 4.0

#### 8. Percent Nutrients Retained in System
- Table 1
  - N: 35%
  - P2O5: 50%
  - K2O: 60%

#### 9. Net Retained Nutrients in Manure (lbs/1,000 gallons)
- N: 1.0
- P2O5: 1.0
- K2O: 4.0

#### 10. Percent of Available Nutrients
- Table 2
  - N: 75%
  - P2O5: 80%
  - K2O: 100%

#### 11. Net Available Nutrients (lbs/1,000 gallons)
- N: 0.6
- P2O5: 0.8
- K2O: 4.0

#### 12. Application Rate (1,000 gallons/ac)
- Do not exceed phosphorus application rate.
- Enter chosen application rate in box on right.
- Implement a phosphorus drawdown plan.

#### 13. Net Application Amount for All Nutrients (lbs/ac)
- N: 25
- P2O5: 25
- K2O: 25

#### 14. Nutrient Needs (-) or Surpluses (+) (lbs/ac)
- N: -175
- P2O5: -52
- K2O: -60

---

**Gallons Available:** 939,562  -  **Gallons Applied in Field:** 450,000  -  **Balance:** 489,562

---

**Notes:**
- N<sub>40-60% STP</sub> - Phosphorus applications are not to exceed the estimated removal of phosphorus in the harvested plant biomass.
- N<sub>50-80% STP</sub> - Phosphorus applications are not to exceed 1% of the estimated removal of phosphorus in the harvested plant biomass.
- N<sub>80-100% STP</sub> - Phosphorus applications are no longer allowed (manure may not be land applied in accordance with this guidance).

---

**Enter Lab Results Here to Override Calculations From Worksheet 1 on Step 7**

<table>
<thead>
<tr>
<th></th>
<th>N</th>
<th>P2O5</th>
<th>K2O</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Chosen Application Rate MUST ENTER**

- 25

One time application rate should not exceed 12,500 gallons per acre (or 12 inch per acre).
### Liquids Worksheet 2 - Nutrient Balance

<table>
<thead>
<tr>
<th>Tract</th>
<th>Field No</th>
<th>Acres</th>
<th>Soil Test P Value (Mehlich 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>20</td>
<td></td>
<td>553</td>
</tr>
</tbody>
</table>

1. Crop or Crop Rotation

2. Realistic Yield [Average from 5-10 Years on a per acre basis]

3. Plant Nutrients Needed or Allowed [lbs/ac]

4. Adjusted P\(_2\)O\(_5\) Application Rate According to Threshold

5. Fertilizer Credits [lbs/ac]

6. Plant Nutrients Needed Minus Credits [lbs/ac]

7. Nutrients in Manure [lbs/1000 gallons]
   - N
   - P\(_2\)O\(_5\)
   - K\(_2\)O

8. Percent Nutrients Retained in System
   - First Worksheet 2 values used or zero if lab results are used

9. Net Retained Nutrients in Manure [lbs/1000 gallons]

10. Percent of Available Nutrients
    - Enter Table 2 value for N

11. Not Available Nutrients [lbs/1000 gallons]

12. Application Rate [1000 gallons/acre]
    - Application limitations may apply
    - Enter Chosen Application Rate in box on right

13. Net Application Amount for All Nutrients [1000 gallons/acre]

14. Nutrient Needs (−) or Surpluses (+) [lbs/acre]

---

**Entry Notes:**
- 40-200 STP - Phosphorus applications at rates not to exceed the estimated removal of phosphorus in the harvested plant biomass.
- 600-800 STP - Phosphorus applications at rates not to exceed 12 of the estimated removal of phosphorus in the harvested plant biomass.
- > 800 STP - Phosphorus applications are no longer allowed (manure may not be land applied in accordance with this guidance).

**Step 7**

<table>
<thead>
<tr>
<th>N</th>
<th>P(_2)O(_5)</th>
<th>K(_2)O</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Chosen Application Rate MUST ENTER**

25

One-time application rate should not exceed 16,000 gallons per acre (or 12 inch per acre).
Fall 2020

We cannot apply to field G-lagoon because the soil test P level is above 800. We applied the maximum amount of manure but we need more land.
### LIQUIDS WORKSHEET 2 - NUTRIENT BALANCE

<table>
<thead>
<tr>
<th>Tote</th>
<th>Field No.</th>
<th>Acres</th>
<th>Soil Test P Value (Mehlich 3)</th>
<th>644</th>
</tr>
</thead>
</table>

1. Crop or Crop Sequence/Rotation
   - Wheat Grain (Bushel)

2. Realistic Yield (Average from 5-10 Years on a per acre basis)
   - 50.0

3. Plant Nutrients Needed or Allowed (Ib/acre)
   - N | P2O5 | K2O |
   - 75 | 30  | 17  |

4. Adjusted P2O5 Application Rate According to Threshold
   - 15

5. Fertilizer Credits (Ib/acre)

6. Plant Nutrients Needed Minus Credits (Ib/acre)
   - 75 | 15 | 17 |

7. Nutrients in Manure (Ib/1,000 gallons)
   - Enter lab results in box on right to override Worksheet 1 values
   - N = 10
   - P2O5 = 4.0

8. Percent Nutrients Retained in System
   - Table 1
   - Enter Table 1 values or Enter zero if lab results are used in Step 7
   - 35% | 50% | 65% |

9. Net Retained Nutrients in Manure (Ib/1,000 gallons)
   - 1.0 | 1.0 | 4.0 |

10. Percent of Available Nutrients
    - Table 2 value for N
    - 50% | 80% | 100% |

11. Net Available Nutrients (Ib/1,000 gallons)
    - 0.5 | 0.8 | 4.0 |

12. Application Rate (1,000 gallons/acre)
    - Application limitations may apply
    - Enter Chosen Application Rate in box on right
    - 19 | 26 | 19 |
    - Do not exceed phosphorus application rate.
    - Implement a phosphorus shutdown plan

13. Net Application Amount for All Nutrients (Ib/acre)
    - 10 | 15 | 75 |

14. Nutrient Needs [-] or Surpluses [+] (Ib/acre)
    - -66 | 0 | 59 |

**Calculations From Worksheet 1 on Step 7**

<table>
<thead>
<tr>
<th>N</th>
<th>P2O5</th>
<th>K2O</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Chosen Application Rate MUST ENTER**

- 19

**One time application rate should not exceed 13,000 gallons per acre (or 12 inch per acre)