We cannot apply to fields I & G because the soil test P level are above 800. Applying manure to an alfalfa field is a waste of nutrients and it is considered a waste disposal. Some people apply manure before seeding but never year after year.
This field will need split applications.
We applied manure based upon the P level needs of the wheat; so the plant can take up the nutrients and apply the rest of the needed nutrients from commercial fertilizer from the soil test results. Applying manure to alfalfa is useless because it will take up the nutrients that were put down from the manure, so it is not needed.
**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>
<th>553</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 [Ibs/ac]**
   - N 75  P₂O₅ 30  K₂O 17

4. **Adjusted P₂O₅ Application Rate According to Threshold**
   - 30

5. **Fertilizer Credits [Ibs/ac]**

6. **Plant Nutrients Needed Minus Credits [Ibs/ac]**
   - 75  30  17

7. **Nutrients in Manure [Ibs/1,000 gallons]**
   - N 1.0  P₂O₅ 1.0  K₂O 4.0

8. **Percent Nutrients Retained in System**
   - Table 1
     - 35%  50%  65%

9. **Net Retained Nutrients in Manure [Ibs/1,000 gallons]**
   - Table 2
     - N 1.0  P₂O₅ 1.0  K₂O 4.0

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

11. **Not Available Nutrients [Ibs/1,000 gallons]**
    - 0.5  0.8  4.0

12. **Application Rate [1,000 gallons/ac]**
    - Application Limitations may apply
    - Enter Chosen Application Rate in box on right
    - Do not exceed phosphorus application rate
    - Implement a phosphorus drawdown plan
    - 36  36  36

13. **Nutrient Needs [-] or Surplus [+][Ibs/ac]**
    - 10  20  152

14. **Nutrient Needs [-] or Surplus [+][Ibs/ac]**
    - 36  36  36

Enter Lab Results Here to Override Calculations From Worksheet 1 on Worksheet 2

<table>
<thead>
<tr>
<th>Step 7</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**

- 30

One time application rate should not exceed 12,500 gallons per acre (or 12 inch per acre)

Split applications are needed for this field.

### Liquids Worksheet 2 - Nutrient Balance

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<tr>
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<th>Acres</th>
<th>Soil Test P Value (Mehlich 3)</th>
<th>K</th>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Crop or Crop Rotation
   - Alfalfa Hay (Ten) legume

2. Realistic Yield (Average from 5-10 Years on a per acre basis)
   - 80

3. Plant Nutrients Needed or Allowed (lb/acre)
   - N: 40, P₂O₅: 12, K₂O: 440

4. Adjusted P₂O₅ Application Rate According to Threshold
   - 50

5. Fertilizer Credits (lb/acre)

6. Plant Nutrients Needed Minus Credits (lb/acre)
   - N: 40, P₂O₅: 56, K₂O: 440

7. Nutrients in Manure (lb/1,000 gallons)
   - N: 10, P₂O₅: 10, K₂O: 40

8. Percent Nutrients Retained in System
   - N: 90%, P₂O₅: 90%, K₂O: 100%

9. Net Retained Nutrients in Manure (lb/1,000 gallons)
   - N: 10, P₂O₅: 10, K₂O: 40

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

11. Net Available Nutrients (lb/1,000 gallons)
    - N: 0.3, P₂O₅: 0.8, K₂O: 40

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

13. Net Application Amount for All Nutrients (1,000 gallons/acre)
    - N: 7, P₂O₅: 7, K₂O: 36

14. Nutrient Needs (-) or Surpluses (+) (lb/acre)
    - N: -401, P₂O₅: -49, K₂O: -450

- **N**: 400-500 lb P₂O₅ - 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).

Enter Lab Results Here to Override 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>

Cheater Application Rate **MUST ENTER**

9

Gallons Available 179,562 - Gallons Applied in Field 180,000 = Balance more than Available