



# Worksheet 5-4

# Calculating the Manure Application Rate Required to Meet the Crop Nitrogen Recommendation

| Field(s) |  |  |  |
|----------|--|--|--|
|          |  |  |  |

Crop\_

## 1. Crop nitrogen recommendation

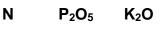
- Expressed as lbs/acre.
- Enter the net nitrogen recommendation from Worksheet 5-2.

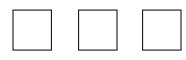
#### 2. PAN in manure

- Expressed as lbs/ton or lbs/gallon.
- Enter #8 from Worksheet 4-1.

#### 3. <u>Manure application rate</u>

- Expressed as tons/acre or gallons/acre.
- Divide the crop nitrogen recommendation (**#1**) by PAN in manure (**#2**).





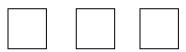
- For N, enter PAN from **#2**.

<u>Available nutrients in manure</u>
Expressed as lbs/ton or lbs/gallon.

- If manure is solid or semisolid, multiply  $\%P_20_5$  and  $\%K_20$  from manure analysis by 20 and enter result.
- If manure is liquid, multiply %P<sub>2</sub>0<sub>5</sub> and %K<sub>2</sub>0 from manure analysis by 0.0837 and enter result.

## 5. Nutrients supplied by manure

- Expressed as lbs./acre.
- Multiply available nutrients in manure (#4) by the manure application rate (#3).



1/13/10

**Farmer Training & Certification**