



Worksheet 5-5

Calculating the Manure/Compost Application Rate to Meet the Crop Phosphorus Removal

Field(s) _____

Crop _____

1. Crop yield goal

- Expressed as yield units/acre.

2. Lbs. P₂O₅ per yield unit

- Refer to **NM-3** (*Phosphorus Removal by Crops in the Mid-Atlantic States*).

3. Crop phosphorus removal

- Expressed as lbs/acre.
- Multiply crop yield goal (#1) by lbs. P₂O₅ per yield unit (#2).

4. Available P₂O₅ in manure/compost

- Expressed as lbs/ton or lbs/gallons.
- If manure is solid or semisolid, multiply %P₂O₅ from manure analysis by 20 and enter result.
- If manure is liquid, multiply %P₂O₅ from manure analysis by 0.0837 and enter result.

5. Manure/compost application rate

- Expressed as tons/acre or gallons/acre.
- Divide the crop phosphorus removal (#3) by available P₂O₅ in manure (#4).

6. Available nutrients in manure/compost

- Expressed as lbs./ton or lbs./gallon.
- For N, enter PAN from #8 on **Worksheet 4-1**.
- For P₂O₅, enter #4 (above).
- If manure is solid or semisolid, multiply %K₂O from manure analysis by 20 and enter result.
- If manure is liquid, multiply %K₂O from manure analysis by 0.0837 and enter result.

N	P ₂ O ₅	K ₂ O
<input type="text"/>	<input type="text"/>	<input type="text"/>

7. Nutrients supplied by manure/compost

- Expressed as lbs/acre.
- Multiply available nutrients in manure (#6) by the manure application rate (#5).

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