Worksheet 5-5

Calculating the Manure Application Rate to Meet the Crop Phosphorus Removal

Field(s)_____

Crop_____

1. Crop yield goal
- Expressed as yield units/acre.

2. Lbs. P_2O_5 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. P_2O_5 per yield unit (**#2**).

4. Available P_2O_5 in manure
- Expressed as lbs/ton or lbs/gallons.
- If manure is solid or semisolid, multiply $\%P_2O_5$ from manure analysis by 20 and enter result.
- If manure is liquid, multiply $\%P_2O_5$ from manure analysis by 0.0837 and enter result.

5. Manure application rate
- Expressed as tons/acre or gallons/acre.
- Divide the crop phosphorus removal (**#3**) by available P_2O_5 in manure (**#4**).

	N	P_2O_5	K_2O
6. Available nutrients in manure - Expressed as lbs./ton or lbs./gallon. - For N, enter PAN from **#8** on **Worksheet 4-1**. - For P_2O_5, enter **#4** (above). - If manure is solid or semisolid, multiply $\%K_2O$ from manure analysis by 20 and enter result. - If manure is liquid, multiply $\%K_2O$ from manure analysis by 0.0837 and enter result.			
7. Nutrients supplied by manure - Expressed as lbs/acre. - Multiply available nutrients in manure (**#6**) by the manure application rate (**#5**).			