Using Manure from Operations Requiring Nutrient Management Plans on Operator’s Home Garden

(Use this sheet if a producer is required to have a nutrient management plan, he/she uses manure generated on their operation as a nutrient source for their home garden AND the home garden is no larger than 1 acre.)

Calculating PAN of Manure

<table>
<thead>
<tr>
<th>PAN (lbs/ton) = [(%N - %NH₄) (f_{min}) + (%NH₄) (f_{con})] x 20</th>
</tr>
</thead>
</table>

- f_{min} = manure mineralization factor from Infocard
- f_{con} = ammonium conservation factor from Infocard

1. %N (from manure analysis*) =
2. %NH₄ (from manure analysis*) =

3. Days to incorporation =

4. PAN (lbs/ton) =

* MDA allows the use of average manure composition values (“book” values) for manure produced on farms required to have nutrient management plans if the manure is applied only to home gardens, provided the home garden is not larger than 1 acre. If the garden is larger than 1 acre, a manure analysis is required and nutrient recommendations should be generated as for any other field.

Calculating Area of Garden

| area of garden = [(L x W) ÷ 43,560 square feet] |

5. length of garden (L) =
6. width of garden (W) =

7. area (acres) of garden =

Calculating PAN Application Rate

<table>
<thead>
<tr>
<th>PAN application rate = estimate of manure quantity x PAN (lbs/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>area (acres) in garden</td>
</tr>
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</table>

8. estimate of manure quantity (tons) =

9. PAN application rate (lbs/acre) =

10. maximum tonnage allowed in garden area = \( \frac{\text{area (acres) in garden} \times 150 \text{ lbs/acre PAN}}{\text{PAN (lbs N/ton)}} \)

The recommended nitrogen application rate varies considerably among vegetables. However, an average rate for a mixed vegetable garden should not exceed 150 pounds of PAN per acre. If the PAN application rate in Step 9 (above) exceeds that amount, some manure should be exported. Compare the quantity of manure generated to the maximum tonnage allowed in garden area in Step 10 to determine the quantity of manure that must be exported.