Endres Berryridge Compost Pile

1) **Nitrogen (Compared to Urea 46-0-0)**
   a. 2000 lbs. * 0.46= 920lbs N
   b. $325 per Ton / 920lbs N = $0.35 cents per lb.
   c. $0.35 cents * 22 lbs. of total nitrogen = **$7.70 / 2000 pounds (1 Ton)**
   d. ****Note: The nitrogen in this compost pile was made up of almost all Organic Nitrogen. Organic N is not available to a plant. The value above is strictly an estimate because we don't truly know when that N will go through mineralization and become available for plant uptake. Some of it may never get to that point.**

2) **Phosphorus (Compared to 0-44-0, Triple Super Phosphate)**
   a. 2000 lbs. * 0.44 = 880 lbs.
   b. $465 per ton / 880.00 = $0.53 per lb.
   c. $0.53 per lb. * 15.6 lbs. of P2O5 per ton = **$8.27 / 2000 pounds (1 Ton)**

3) **Potassium (Compared to 0-0-60)**
   a. 2000 lbs. *0.60 = 1200 lbs.
   b. $340/Ton / 1200 lbs. = $0.28 per lb.
   c. $0.28 per lb. * 29.4 lbs. K20 per ton **= $ 8.23 / 2000 pounds (1 Ton)**

4) **Sulfur (Compared to 90% elemental sulfur)**
   a. 2000lbs * 0.90 = 1800lbs of sulfur
   b. $980/Ton divided by 1800lbs = $0.54/lb.
   c. $0.54 * 3.2 pounds per ton = **$1.73 / 2000 pounds (1 Ton)**

Total From Above = $25.93 per ton

Jacob Getz (Crops Specialist) Insight FS

Hoffman Farms Compost Pile

1) **Nitrogen (Compared to Urea 46-0-0)**
   - **a.** 2000 * 0 .46= 920lbs N
   - **b.** $325 per Ton / 920lbs N = $0.35 per lb.
   - **c.** $0.35 per lb. * 12.8 lbs. of total nitrogen = **$4.48 / 2000 pounds (1 Ton)**
   - **d.** ****Note: The nitrogen in this compost pile was made up of almost all Organic Nitrogen. Organic N is not available to a plant. The value above is strictly an estimate because we don't truly know when that N will go through mineralization and become available for plant uptake. Some of it may never get to that point.**

2) **Phosphorus (Compared to 0-44-0, Triple Super Phosphate)**
   - **a.** 2000 * 0.44= 880lbs
   - **b.** $465 per ton / 880.00 = $0.53 per lb.
   - **c.** $0.53 * 12.0 lbs. of P2O5 per ton = **$6.36 / 2000 pounds (1 Ton)**

3) **Potassium (Compared to 0-0-60)**
   - **a.** 2000lbs *0.60 = 1200lbs of Potassium
   - **b.** $340/Ton / 1200 lbs. = $0.28 per lb.
   - **c.** $0.28 per lb. * 8.2 lbs. K20 per ton **= $2.30 / 2000 pounds (1 Ton)**

4) **Sulfur (Compared to 90% elemental sulfur)**
   - **a.** 2000lbs * 0.90 = 1800lbs of sulfur
   - **b.** $980/Ton divided by 1800lbs = $0.54/lb.
   - **c.** $0.54 per lb. * 26.4 pounds per ton = **$14.27 / 2000 pounds (1 Ton)**
   - **d.** ****NOTE: The amount of sulfur from this pile is way above average; all of the other piles had only 2 to 3 lbs. per ton. This particular farmer was using dry-wall as bedding with his steers and had some of that dry-wall in this pile. I believe we can conclude that the dry-wall is our culprit in the elevated levels of sulfur and calcium.**

Total from above = $27.41 per ton

Jacob Getz (Crops Specialist)

Maier Farms Compost Pile

1) **Nitrogen (Compared to Urea 46-0-0)**
    a. 2000 * 0.46= 920lbs N
    b. $325 per ton / 920lbs N= $0.35 per lb.
    c. $0.35 per lb. * 10 lbs. of total nitrogen = **$3.50 / 2000 pounds (1 Ton)**
    d. ****Note: The nitrogen in this compost pile was made up of almost all Organic Nitrogen. Organic N is not available to a plant. The value above is strictly an estimate because we don't truly know when that N will go through mineralization and become available for plant uptake. Some of it may never get to that point.**

2) **Phosphorus (Compared to 0-44-0, Triple Super Phosphate)**
    a. 2000 lbs. * 0.44 = 880.00 lbs.
    b. $465 per ton / 880.00 = $0.53 per LB
    c. $0.53 per lb. * 8.8 lbs. of P2O5 per ton = **$4.66 / 2000 pounds (1 Ton)**

3) **Potassium (Compared to 0-0-60)**
    a. 2000 lbs. * 0.60 = 1200 lbs.
    b. $340 per ton / 1200 lbs. = $0.28 per lb.
    c. $0.28 per lb. * 10.2 lbs. K20 per ton **= $ 2.87/ 2000 pounds (1 Ton)**

4) **Sulfur (Compared to 90% elemental sulfur)**
    a. 2000lbs * 0.90 = 1800lbs of sulfur
    b. $980/Ton divided by 1800lbs = $0.54/lb.
    c. $0.54 * 2.0 pounds per ton = **$1.08 / 2000 pounds (1 Ton)**

Total from above = $12.11 per ton

Jacob Getz (Crops Specialist) and Scott Evans (Nutrient Management) Insight FS

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