



STA Certified™ COMPOST A program of the US Composting Council

Contact Info

| Product | Grow Gold Compost |
|---------------------------|---|
| Company | Metro Compost Center |
| Facility Name | Metro Park East Landfill |
| Facility Telephone | +1.5152440021 |
| Facility Location | 12181 NE UNIVERSITY AVE, MITCHELLVILLE, Iowa, 50169, United States of America |
| Lab Name | Soil Control Lab |
| Lab Location | 42 HANGAR WAY, WATSONVILLE, 95076, California, United States of America |
| Date/Time Sample Mailed | 2025-05-12 14:15:00 (America/Chicago) |
| Date/Time Sample Received | 2025-05-15 09:07:00 (America/Chicago) |
| Date/Time Sample Reported | 2025-05-28 17:27:25 (America/Chicago) |

Customer, in order to guarantee that you are using the same product represented in this technical data sheet, check to make sure the product and manufacturer match this CTDS on the delivery ticket and invoice for your project. Click here to view the Product on the current list of STA Certified Compost Participants.

Test Results Excluding Nutrients

| Compost Parameters | Reported as | Test Results | | TMECC |
|---|--------------------------------|------------------------------------|------------------------------|---------|
| | | Wet Weight | Dry Weight | Method |
| Moisture Content | % | 53.77 | N/A | 03.09-A |
| Organic Matter Content | % | 22.86 | 49.44 | 05.07-A |
| pH | pH Units | | 8.76 | 04.11-A |
| Soluble Salts (electrical conductivity EC 5) | dS/m (mmhos/cm) | | 3.86 | 04.10-A |
| Particle Size - 3/8" (9.5 mm) | % passing | N/A | 97.74 | 02.02-В |
| Stability Indicator (respirometry) | | | | |
| CO ₂ Evolution | mg CO ₂ -C/g OM/day | N/A 1.61 | | 05.08-B |
| Maturity Indicator (bioassay) | | | | |
| Percent Emergence | average % of control | | 100.00 | 05.05-A |
| Relative Seedling Vigor | average % of control | | 100.00 | 05.05-A |
| Select Pathogen | | | | |
| Fecal Coliform | MPN / gram | N/A | > 2950.5 (FAIL) ¹ | 07.01-B |
| Salmonella | MPN / 4 grams | N/A | < 3.0 (PASS) ¹ | 07.01-B |
| Trace Metals | PASS ² | As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn | | 04.06 |
| ¹ Per US EPA Class A standard, 40 CFR § 503.32(a) ² Per US EPA Class A standard, 40 CFR § 503.13 | | | | |

Directions For Product Use

Grow Gold Compost® is easy to apply, just follow the recipe that best fits your project: RECIPE #1: Flowers & Vegetable Gardens Incorporate 1-2 inches of compost in the top 3-5 inches of soil a few weeks prior to planting. Reapply compost to soil every two years. RECIPE #2: Lawn Maintenance Aerate lawn thoroughly in spring and/or fall. Top dress with 1/4-inch of compost. RECIPE #3: Weed Control Spread a 1-2-inch layer along garden paths and around vegetables for weed control and moisture retention. RECIPE #4: Mulch Spread a 1-2-inch layer on perennial beds in the spring to add organic material and micronutrients. RECIPE #5: Potting Soil Blend one-part compost with one-part sand and one-part garden soil. RECIPE #6: Trees & Shrubs Dig a hole 2/3 the depth of the root ball and at least twice as wide. Mix one-part compost with two parts soil from the planting hole. Place the tree or shrub in the planting soil and apply amended soil around the root ball.

Note: The USCC will not assess whether or not, or to what extent, these directions are appropriate. It is the Compost Manufacturer's responsibility alone to ensure that they are.

Feedstock

This compost product is made from the following feedstock: Yard Waste (Green Waste).

Test Results Including Nutrients

| Compost Parameters | Reported as | Test Results | | TMECC |
|--|--------------------------------|--------------|------------------------------------|----------|
| | | Wet Weight | Dry Weight | Method |
| Plant Nutrients | | | | |
| Nitrogen (Total N) | % | 0.92 | 1.99 | 04.02-D |
| Phosphorus (P ₂ O ₅) | % | 0.37 | 0.79 | 04.03-A |
| Potassium (K ₂ O) | % | 0.67 | 1.46 | 04.04-A |
| Calcium (Ca) | % | 2.10 | 4.54 | 04.05-CA |
| Magnesium (Mg) | % | 0.32 | 0.69 | 04.05-MG |
| Moisture Content | % | 53.77 | N/A | 03.09-A |
| Organic Matter Content | % | 22.86 | 49.44 | 05.07-A |
| рН | pH Units | | 8.76 | 04.11-A |
| Soluble Salts (electrical conductivity EC 5) | dS/m (mmhos/cm) | | 3.86 | 04.10-A |
| 3/8" (9.5 mm) | % passing | N/A | 97.74 | 02.02-В |
| Stability Indicator (respirometry) | | | | |
| CO ₂ Evolution | mg CO ₂ -C/g OM/day | N/A | 1.61 | 05.08-В |
| Maturity Indicator (bioassay) | | | • | |
| Percent Emergence | average % of control | | 100.00 | 05.05-A |
| Relative Seedling Vigor | average % of control | | 100.00 | 05.05-A |
| Select Pathogen | | | | |
| Fecal Coliform | MPN / gram | N/A | > 2950.5 (FAIL) ¹ | 07.01-B |
| Salmonella | MPN / 4 grams | N/A | < 3.0 (PASS) ¹ | 07.01-B |
| Trace Metals | PASS ² | 2 | As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn | 04.06 |
| ¹ Per US EPA Class A standard, 40 CFR § 503.32 ² Per US EPA Class A standard, 40 CFR § 503.12 | 2(a) 3 | | · | |

Supplemental Sheet

| Compost Parameters | Reported as | Test Results | | TMECC |
|--|-------------|--------------|---------------------------|---------|
| | | Wet Weight | Dry Weight | Method |
| Particle Size | | ł | | |
| 2" (50.8 mm) | % passing | N/A | 100.00 | 02.02-В |
| 1" (25.4 mm) | % passing | N/A | 100.00 | 02.02-В |
| 5/8" (15.875 mm) | % passing | N/A | 100.00 | 02.02-В |
| 3/8" (9.5 mm) | % passing | N/A | 97.74 | 02.02-В |
| 1/4" (6.35 mm) | % passing | N/A | 85.35 | 02.02-В |
| Contaminants | | * | | |
| Total Physical Contaminants | % | N/A | < 0.50 | 02.02-C |
| Sharp Physical Contaminants | % | N/A | NOT DETECTED | 02.02-C |
| Trace Metals | | - | - | |
| Arsenic (As) | mg/Kg | N/A | 4.6 (PASS) ² | 04.06 |
| Cadmium (Cd) | mg/Kg | N/A | 0.9 (PASS) ² | 04.06 |
| Chromium (Cr) | mg/Kg | N/A | 40.8 | 04.06 |
| Copper (Cu) | mg/Kg | N/A | 15.7 (PASS) ² | 04.06 |
| Lead (Pb) | mg/Kg | N/A | 27.7 (PASS) ² | 04.06 |
| Mercury (Hg) | mg/Kg | N/A | 0.1 (PASS) ² | 04.06 |
| Nickel (Ni) | mg/Kg | N/A | 13.2 (PASS) ² | 04.06 |
| Selenium (Se) | mg/Kg | N/A | 0.0 (PASS) ² | 04.06 |
| Zinc (Zn) | mg/Kg | N/A | 136.5 (PASS) ² | 04.06 |
| Total Solids | % | 46.23 | N/A | 03.09 |
| C:N Ratio | | | 14.32 | 05.02-A |
| ¹ Per US EPA Class A standard, 40 CFR § 503.32 ² Per US EPA Class A standard, 40 CFR § 503.13 | 2(a) | - | | |

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing Assurance Program, or the Program in general, log onto the US Composting Council's website at https://www.compostingcouncil.org.

Participants in the United States Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis, and provide this date, along with compost and use instructions, as a means to better serve the needs of their compost customers.

This compost product has been sampled and tested as required by the Seal of Testing Assurance Program on the United States Composting Council (USCC) using certain methods from the 'Test Methods for the Examination of Compost and Composting' manual. Test results are available upon request by contacting the compost producer (address at top of this Compost Technical Data Sheet). The USCC makes no warranties regarding this product or its content, quality, or suitability for any particular use. Nutrients data are for informational purposes only and do not constitute, in part or whole, a guaranteed analysis.

ANALYTICAL CHEMISTS and BACTERIOLOGISTS TEL: 831-724-5422 FAX: 831-724-3188 www.controllabs.com

SOIL CONTROL LAB

Account #: 5050181-1/1-12316 Group: May25C #33 Reporting Date: May 28, 2025

Metro Waste Authority- Metro Park East Landfill 12181 NE University Avenue Mitchellville, IA 50169 Attn: Chad Dentlinger

| Date Received: | 15 May. 25 |
|------------------------|-------------------|
| Sample Identification: | Grow Gold Compost |
| Sample ID #: | 5050181 - 1/1 |
| | |

| Nutrients | Dry wt. | As Rcvd. | units | Stability Indica | tor: | | |
|---|--------------|-----------|----------|----------------------------|----------------|--------------------|--------------|
| Total Nitrogen: | 2.0 | 0.92 | % | CO2 Evolution | | Respirometery | |
| Ammonia (NH ₄ -N): | 120 | 57 | mg/kg | mg CO ₂ -C/g ON | /l/day | 1.6 | |
| Nitrate (NO ₃ -N): | 73 | 34 | mg/kg | mg CO ₂ -C/g TS | /day | 0.79 | |
| Org. Nitrogen (OrgN): | 2.0 | 0.91 | % | Stability Rati | ng | very stable | |
| Phosphorus (as P ₂ O ₅): | 0.79 | 0.37 | % | | | | |
| Phosphorus (P): | 3500 | 1600 | mg/kg | Maturity Indica | tor: Cucum | ber Bioassay | |
| Potassium (as K ₂ O): | 1.5 | 0.68 | % | Compost:Vermi | culite (v:v) | 1:2 | |
| Potassium (K): | 12000 | 5600 | mg/kg | Emergence (%) | | 100 | |
| Calcium (Ca): | 4.5 | 2.1 | % | Seedling Vigor (| (%) | 100 | |
| Magnesium (Mg): | 0.69 | 0.32 | % | Description of | of Plants | healthy | |
| Sulfate (SO ₄ -S): | 110 | 53 | mg/kg | | | - | |
| Boron (Total B): | 53 | 24 | mg/kg | Pathogens | Results | Units | Rating |
| Moisture: | 0 | 53.8 | % | Fecal Coliform | > 3000 | MPN/g | fail |
| Sodium (Na): | 0.10 | 0.047 | % | Salmonella | < 3 | MPN/4g | pass |
| Chloride (CI): | 0.32 | 0.15 | % | Date Tested: 15 M | lay. 25 | - | - |
| pH Value: | NA | 8.76 | unit | | | | |
| Bulk Density: | 23 | 49 | lb/cu ft | Physical Conta | minants** | % by dry wt | |
| Carbonates (CaCO ₃): | 120 | 54 | lb/ton | Total Plastic | | < 0.1 | |
| Conductivity (EC5): | 3.9 | NA | mmhos/cm | Film Plastic | | < 0.1 | |
| Organic Matter: | 49.4 | 22.9 | % | Glass | | < 0.1 | |
| Organic Carbon: | 29.0 | 13.0 | % | Metal | | < 0.1 | |
| Ash: | 50.6 | 23.4 | % | Sharps | | ND | |
| C/N Ratio | 14 | 14 | ratio | Total | | < 0.5 | |
| AgIndex | > 10 | > 10 | ratio | TOLAI | | < 0.5 | |
| Metals | Dry wt. | EPA Limit | units | Size Distributio | on | | |
| Aluminum (Al): | 4900 | - | mg/kg | MM | % by weigh | t | |
| Arsenic (As): | 4.6 | 41 | mg/kg | > 50 | 0.0 | | |
| Cadmium (Cd): | < 1.0 | 39 | mg/kg | 25 to 50 | 0.0 | | |
| Chromium (Cr): | 16 | - | mg/kg | 16 to 25 | 0.0 | | |
| Cobalt (Co) | 3.4 | - | mg/kg | 9.5 to 16 | 2.3 | | |
| Copper (Cu): | 41 | 1500 | mg/kg | 6.3 to 9.5 | 12.4 | | |
| Iron (Fe): | 6800 | - | mg/kg | 4.0 to 6.3 | 15.8 | | |
| Lead (PD): | 28 | 300 | mg/kg | 2.0 to 4.0 | 27.0 | | |
| Manganese (Mn): | 400 | - | mg/kg | < 2.0 **Croater then / | 42.5 | (Sharpa graatar t | han 2mm) |
| Molybdonum (Mo): | < 1.0 1.5 | 17 | mg/kg | Greater than 4 | HIIII III SIZE | (Sharps greater ti | nan 2000) |
| Nickol (Ni) | 13 | 73 120 | mg/kg | | | Analyst. | Assaf Sadob |
| Selenium (Se) | < 10 | 100 | ma/ka | | | Anaiyst. | Assai Sauell |
| Zinc (Zn) | 140 | 2800 | ma/ka | | | any | Salel |
| *0 | | 2000 | | | | - / | |

May

*Sample was received and handled in accordance with TMECC procedures.

Account No.: 5050181 - 1/1 - 12316 May25C No. 33 Group:

INTERPRETATION:

Is Your Compost Stable?

| Respiration Rate | | | | |
|------------------|----------|--------------------------|------------|--------------------|
| 1.6 mg CO2-C/ | +++++ | | | |
| g OM/day | < Stable | > < Moderately Unstable> | < Unstable | > < High For Mulch |

Sample i.d.

Is Your Compost Mature?

| AmmoniaN/NitrateN ratio | | | | |
|-------------------------|---|---|---|--|
| 1.6 Ratio | +++++++++++++++++++++++++++++++++++++++ | | | |
| | VeryMature> < | Mature | > < Immature | |
| Ammonia N ppm | | | | |
| 120 mg/kg | ++++++++++++ | | | |
| dry wt. | VeryMature> < | Mature | > < Immature | |
| Nitrate N ppm | | | | |
| 73 mg/kg | +++++++++++++++++++++++++++++++++++++++ | +++++++++++++++++++++++++++++++++++++++ | +++++++++++++++++++++++++++++++++++++++ | |
| dry wt. | < Immature | | < Mature | |
| | | | | |
| Cucumber Emergence | | | | |
| 100.0 percent | ***** | +++++++++++++++++++++++++++++++++++++++ | +++++++++++++++++++++++++++++++++++++++ | |
| | < Immature | | > < Mature | |

Is Your Compost Safe Regarding Health?

| Fecal Coliform | |
|---------------------------|--|
| > 1000 MPN/g dry wt. | +++++++++++++++++++++++++++++++++++++++ |
| | < Safe > < High Fecal Coliform |
| Salmonella Bulk Density : | |
| Less than 3 /4g dry wt. | +++++ |
| | <safe (none="" detected)=""> < High Salmonella Count(> 3 per 4 grams)</safe> |
| Metals US EPA 503 | |
| Pass dry wt. | ++++++ |
| | <all metals="" p="" pass<=""> >I< One or more Metals Fail</all> |

Does Your Compost Provide Nutrients or Organic Matter?

| Nutrients (N+P2O5+K2O) | |
|------------------------------|---|
| 4.2 Percent | +++++++++++++++++++++++++++++++++++++++ |
| dry wt. | <low> < Average > < High Nutrient Content</low> |
| AgIndex (Nutrients / Sodium | and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl)) |
| 10.09584416 Ratio | +++++++++++++++++++++++++++++++++++++++ |
| | Na & Cl > Nutrient and Sodium and Chloride Provider > Nutrient Provider |
| Plant Available Nitrogen (PA | N) Estimated release for first season |
| 2 lbs/ton | +++++ |
| wet wt. | Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" th=""></high> |
| C/N Ratio | |
| 14 Ratio | +++++++++++++++++++++++++++++++++++++++ |
| | < Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand |
| Soluble Available Nutrients | & Salts (EC5 w/w dw) |
| 3.9 mmhos/cm | +++++++++++++++++++++++++++++++++++++++ |
| dry wt. | SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" th=""></high> |
| Lime Content (CaCO3) | |
| 120 Lbs/ton | +++++++++++++++++++++++++++++++++++++++ |
| dry wt. | < Low > < Average > < High Lime Content (as CaCO3) |

What are the physical properties of your compost?

| Percent Ash | |
|-----------------------------|--|
| 50.6 Percent | +++++++++++++++++++++++++++++++++++++++ |
| dry wt. | < High Organic Matter > < Average > < High Ash Content |
| Sieve Size % > 6.3 MM (0.25 |) |
| 14.7 Percent | +++++++++++++++++++++++++++++++++++++++ |
| dry wt. | All Uses > < Size May Restrict Uses for Potting mix and Golf Courses |

Page one of three

Account No.: 5050181 - 1/1 - 12316 Group: May25C No. 33

INTERPRETATION:

Is Your Compost Stable? Respiration Rate

1.6 Low: Good for all uses

mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Date Received

Sample I.d. No.

Sample i.d.

Is Your Compost Mature?

| AmmoniaN:NitrateN ratio | | | |
|-------------------------|--------|-------|--|
| 1.6 | mature | the c | |
| Ammonia N ppm | | | |
| 120 | mature | in an | |
| Nitrate N ppm | | | |
| 73 | mature | amm | |
| | | | |

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia

and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health?

Fecal Coliform

> 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

Less than 3 - 3/4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)

4.2 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

15 May. 25 Grow Gold Compost May 1/1 5050181

Page two of three

Account No.: 5050181 - 1/1 - 12316 Group: May25C No. 33

INTERPRETATION:

Date Received Sample i.d. Sample I.d. No. 15 May. 25 Grow Gold Compost May 1/1 5050181

Page three of three

AgIndex (Nutrients/Na+CI)

10 High nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

2 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. **C/N Ratio**

14 Indicates maturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable. **Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)**

3.9 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

120 High lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

50.6 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

14.7 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

| Appendix: | | |
|---|--|------|
| Plant Available Nitrogen (PAN) calculations: | Estimated available nutrients for use when calculating application rates | |
| PAN = (X * (organic N)) + ((NH4-N) + (NO3-N)) | lbs/ton (As Rcvd.) | |
| X value = If RR < 2 then X = 0.1 | | |
| If RR =2.1 to 5 then X = 0.2 | Plant Available Nitrogen (PAN) | 2.0 |
| If RR =5.1 to 10 then X = 0.3 | Ammonia (NH4-N) | 0.11 |
| If RR > 10 then $X = 0.4$ | Nitrate (NO3-N) | 0.07 |
| Note: If C/N ratio > 15 additional N should be applied. | Available Phosphorus (P2O5*0.64) | 4.7 |
| RR = Respiration rate | Available Potassium (K2O) | 13.5 |