

Table 1. Summary of test results for both composts.

| <h2>Compost Summary</h2> | | |
|---------------------------|-------------------------------------|-------------------------------------|
| | Compost A | Compost B |
| % Dry Matter | 68.2 | 59.4 |
| <u>Tons/Acre applied:</u> | 28 tons/acre (56 tons/ac in row) | 22 tons/acre (44 tons/ac in row) |
| % N | 0.53 | 0.49 |
| N - lb/Acre | 294 | 215 |
| % P | 0.17 | 0.20 |
| P - lb/Acre | 94 | 87 |
| % K | 0.35 | 0.35 |
| K - lb/Acre | 194 | 153 |

Table 2. Cornell Soil Health Test results from 2012 for all blocks (I, II and III).

| | | Block I | | Block II | | Block III | | | | |
|-------------------------------------|------------------------------------|----------|--------|----------|--------|-----------|--------|--|------|------|
| Indicators | | B-1 2012 | | B-2 2012 | | B-3 2012 | | | | |
| | | Value | Rating | Value | Rating | Value | Rating | | | |
| Physical | Aggregate Stability (%) | 82.1 | 99 | 83.2 | 99 | 77 | 99 | | | |
| | Available Water Capacity (m/m) | 0.24 | 94 | 0.24 | 93 | 0.24 | 94 | | | |
| | Surface Hardness (psi) | 70 | 89 | 199 | 38 | 165 | 54 | | | |
| | Subsurface Hardness (psi) | 203 | 82 | 281 | 54 | 281 | 54 | | | |
| Biological | Organic Matter (%) | 6.0 | 97 | 5.3 | 91 | 5.3 | 92 | | | |
| | Active Carbon (ppm) | 479 | 24 | 513 | 30 | 478 | 24 | | | |
| | Potentially Mineralizable Nitrogen | 26.5 | 100 | 23.2 | 100 | 27.0 | 100 | | | |
| | Root Health Rating (1-9) | 3.8 | 75 | 5.2 | 50 | 4.6 | 63 | | | |
| Chemical | pH | 5.5 | 0 | 5 | 0 | 5.5 | 0 | | | |
| | Extractable Phosphorus | 1.0 | 17 | 1.8 | 44 | 3.7 | 100 | | | |
| | Extractable Potassium | 27.6 | 11 | 37.2 | 33 | 48.8 | 72 | | | |
| | Minor Elements | | 56 | | 56 | | 100 | | | |
| Overall Quality Score (Out of 100): | | | 62.0 | Medium | | 57.4 | Medium | | 70.9 | High |

Table 3. Cornell Soil Health Test results from 2013 for both composts and the control.

| | | Compost A | | Compost B | | Control | | |
|-------------------------------------|------------------------------------|-----------|--------|-----------|--------|-----------|--------|------|
| | | B-1A 2013 | | B-1B 2013 | | B-1C 2013 | | |
| Indicators | | Value | Rating | Value | Rating | Value | Rating | |
| Physical | Aggregate Stability (%) | 84.9 | 100 | 88.3 | 100 | 88 | 100 | |
| | Available Water Capacity (m/m) | 0.23 | 91 | 0.23 | 92 | 0.26 | 98 | |
| | Surface Hardness (psi) | 59 | 91 | 60 | 91 | 55 | 92 | |
| | Subsurface Hardness (psi) | 184 | 87 | 192 | 85 | 189 | 86 | |
| Biological | Organic Matter (%) | 6.5 | 99 | 6.0 | 97 | 6.2 | 98 | |
| | Active Carbon (ppm) | 824 | 87 | 555 | 38 | 764 | 79 | |
| | Potentially Mineralizable Nitrogen | 37.9 | 100 | 13.6 | 56 | 14.9 | 63 | |
| | Root Health Rating (1-9) | 7.0 | 25 | 5.3 | 50 | 4.3 | 63 | |
| Chemical | pH | 5.5 | 11 | 5.3 | 0 | 5.3 | 0 | |
| | Extractable Phosphorus | 2.9 | 44 | 2.6 | 44 | 3.7 | 100 | |
| | Extractable Potassium | 60.8 | 100 | 47.8 | 72 | 30.9 | 11 | |
| | Minor Elements | | 100 | | 56 | | 56 | |
| Overall Quality Score (Out of 100): | | | 77.9 | High | 65 | Medium | 70.4 | High |

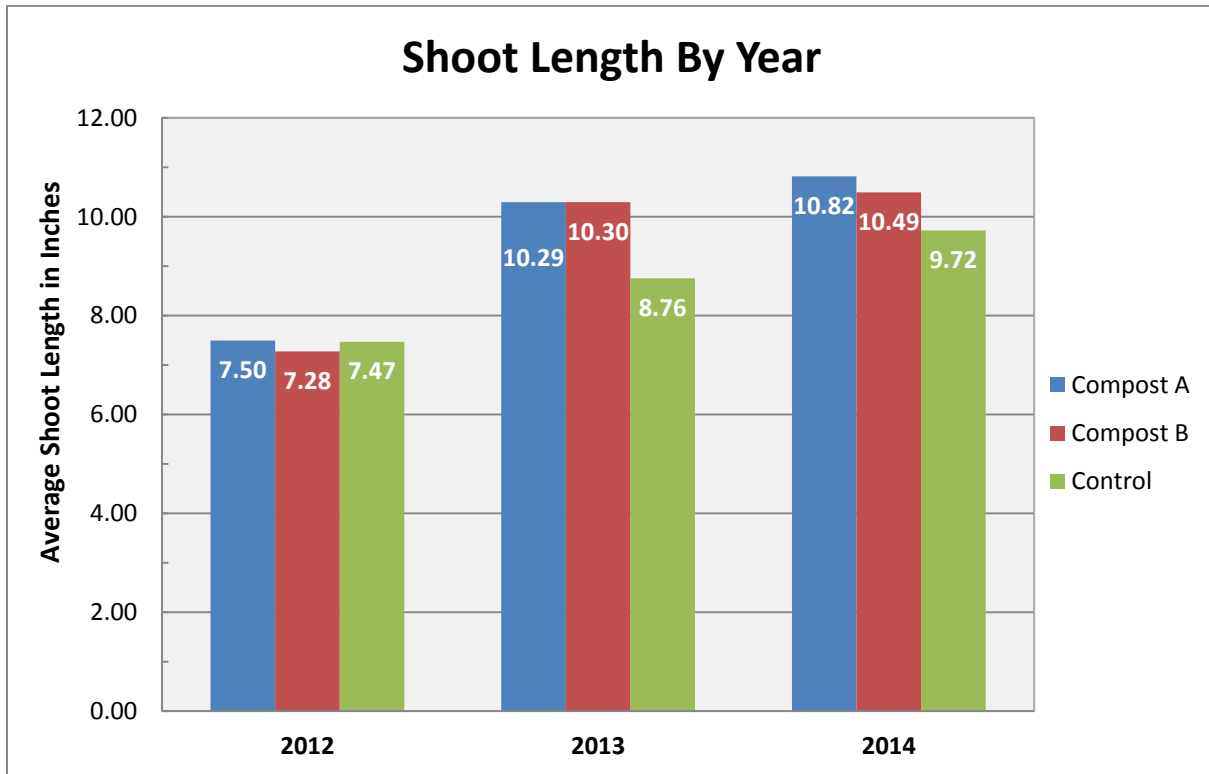


Figure 1. Shoot Length (inches) comparing all treatments by year.

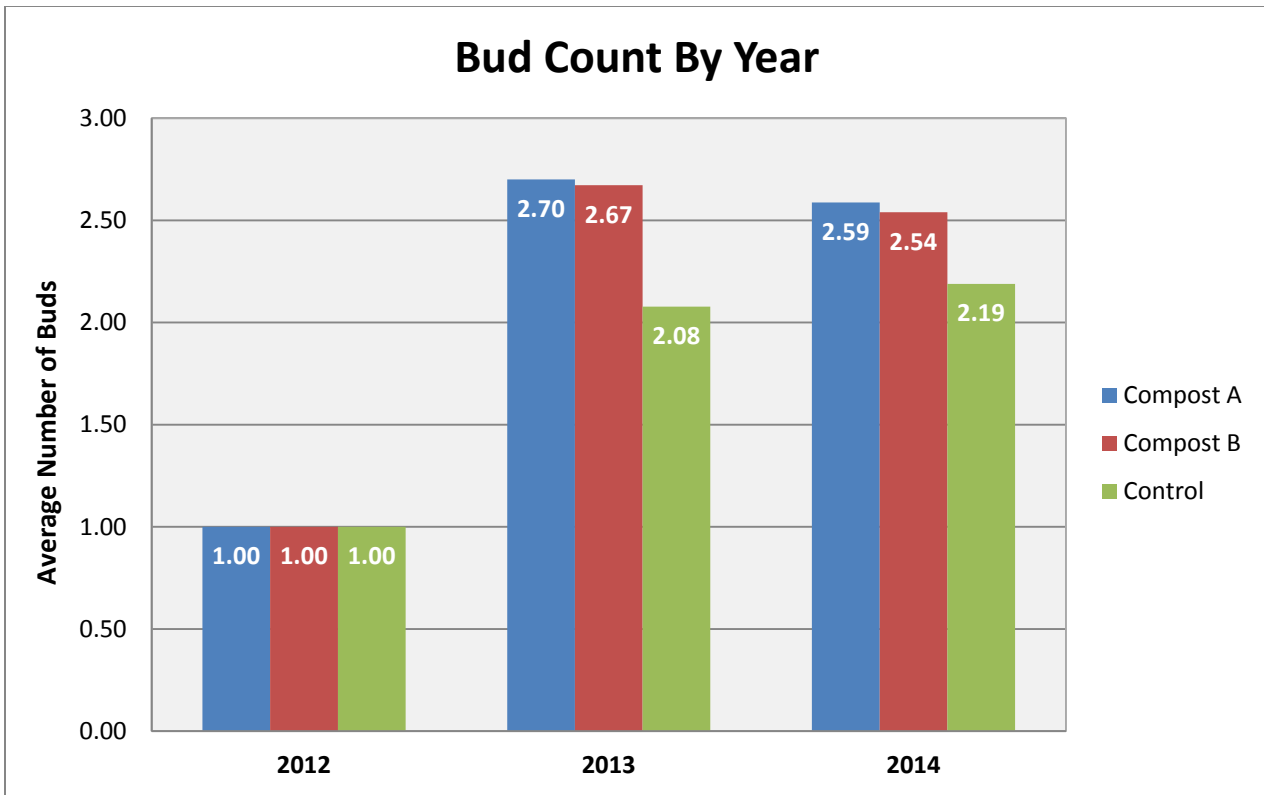


Figure 2. Average number of new tree buds comparing all treatments by year.

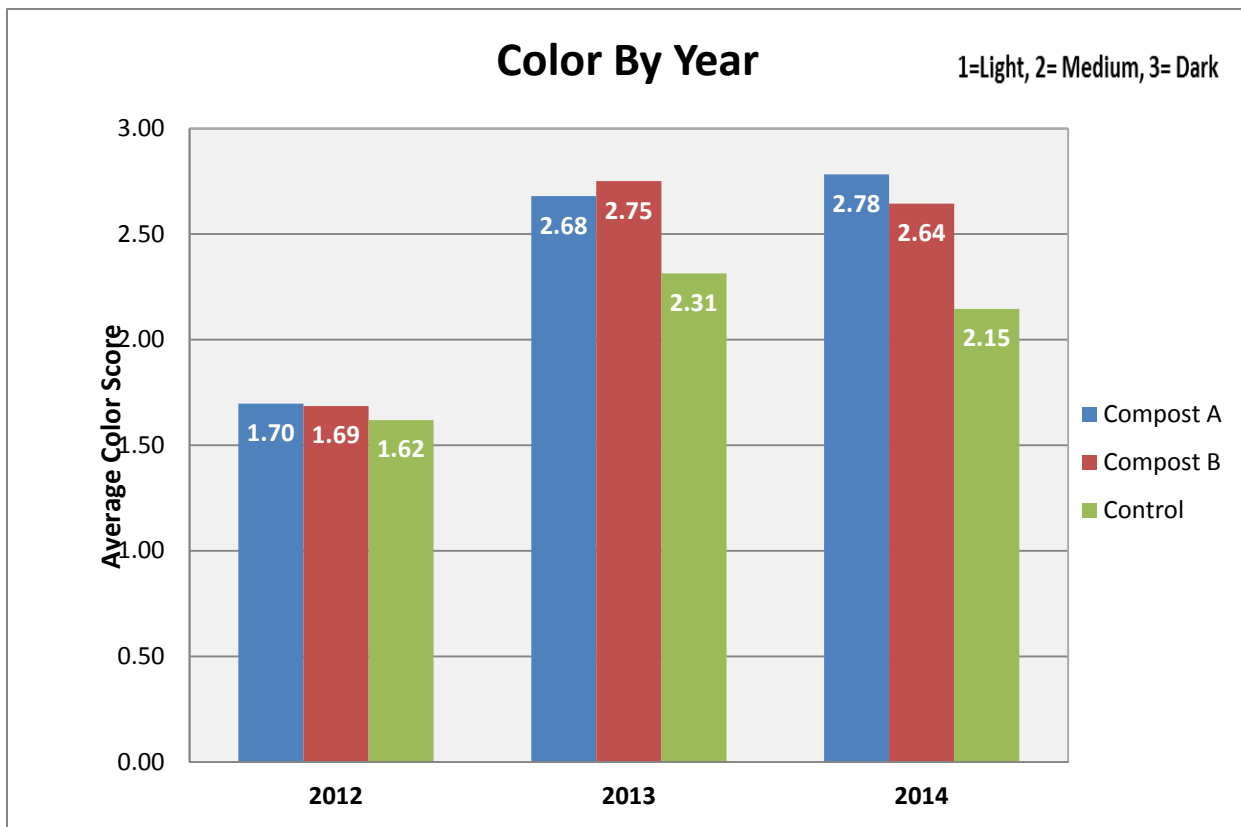


Figure 3. Average color score, on a scale of 1 to 3. 1: Light, 2: Medium, 3: Dark.

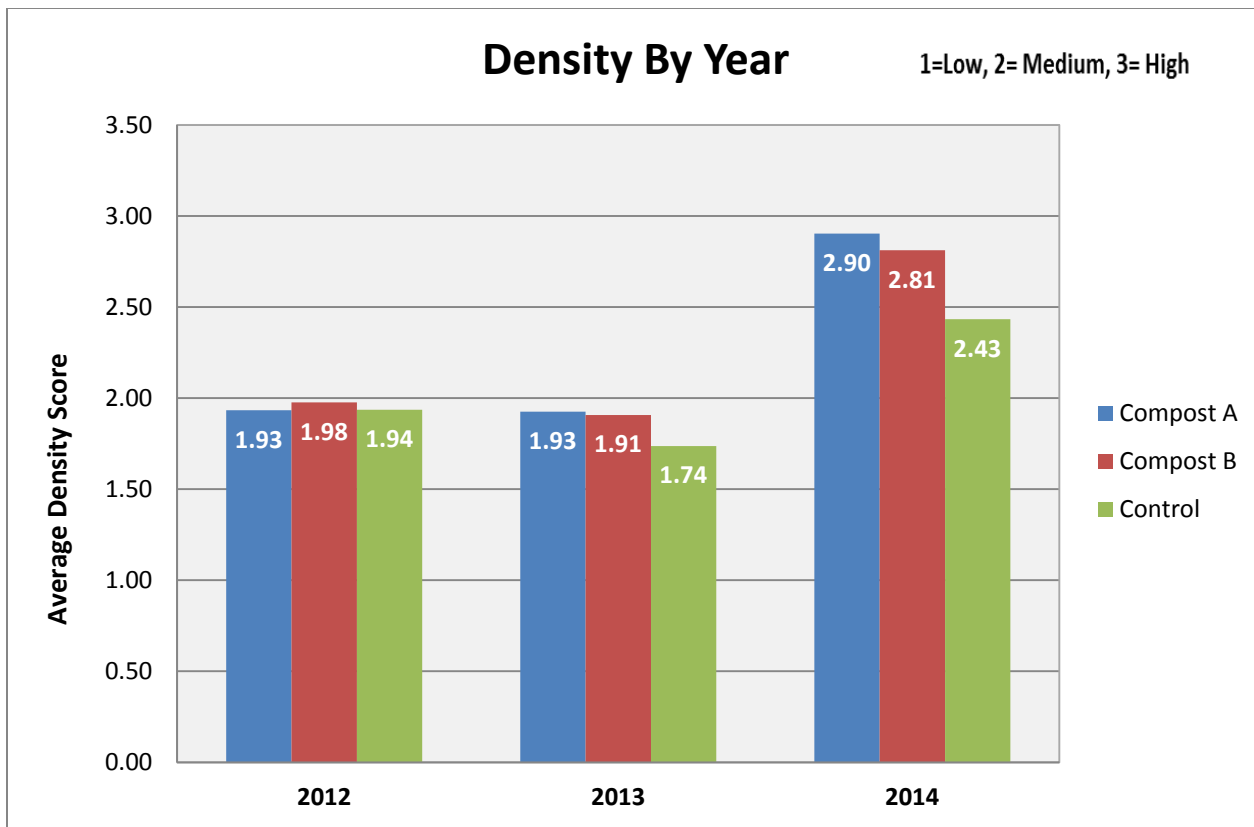


Figure 4. Average density score, on a scale of thickness from 1 to 3. 1: Low, 2: Medium, 3: High.

Table 4. Summary of select treatment results comparing compost types and control for 2012. Color was rated on a scale from 1 to 3: light, medium, dark. Density was rated on a scale from 1 to 3: low, medium, high.

| 2012 | | | | | |
|-----------|----------------|-----------------------|-------------|-------------|-------------|
| Treatment | Block | Shoot Length (inches) | Bud Count | Color | Density |
| Compost A | IA | 7.00 | 1.00 | 1.61 | 1.92 |
| | IIA | 6.21 | 1.00 | 1.52 | 1.92 |
| | IIIA | 9.28 | 1.00 | 1.96 | 1.96 |
| | Average | 7.50 | 1.00 | 1.70 | 1.93 |
| Compost B | IA | 6.51 | 1.00 | 1.66 | 1.96 |
| | IIA | 6.97 | 1.00 | 1.55 | 2.00 |
| | IIIA | 8.35 | 1.00 | 1.85 | 1.97 |
| | Average | 7.28 | 1.00 | 1.69 | 1.98 |
| Control | IA | 6.91 | 1.00 | 1.61 | 1.91 |
| | IIA | 6.34 | 1.00 | 1.36 | 1.92 |
| | IIIA | 9.15 | 1.00 | 1.89 | 1.98 |
| | Average | 7.47 | 1.00 | 1.62 | 1.94 |

Table 5. Summary of select treatment results comparing compost types and control for 2013. Color was rated on a scale from 1 to 3: light, medium, dark. Density was rated on a scale from 1 to 3: low, medium, high.

| 2013 | | | | | |
|------------------|----------------|----------------------------------|------------------|--------------|----------------|
| <i>Treatment</i> | <i>Block</i> | Shoot Length (inches) | Bud Count | Color | Density |
| Compost A | IA | 9.46 | 2.56 | 2.39 | 2.02 |
| | IIA | 10.27 | 2.66 | 2.91 | 1.59 |
| | IIIA | 11.15 | 2.88 | 2.79 | 2.00 |
| | Average | 10.29 | 2.70 | 2.68 | 1.93 |
| Compost B | IA | 9.99 | 2.69 | 2.55 | 1.81 |
| | IIA | 9.52 | 2.42 | 2.76 | 1.69 |
| | IIIA | 11.38 | 2.94 | 2.94 | 2.23 |
| | Average | 10.30 | 2.67 | 2.75 | 1.91 |
| Control | IA | 8.52 | 2.18 | 2.23 | 1.43 |
| | IIA | 7.62 | 1.90 | 2.53 | 2.00 |
| | IIIA | 10.23 | 2.30 | 2.29 | 1.74 |
| | Average | 8.76 | 2.08 | 2.31 | 1.74 |

Table 6. Summary of select treatment results comparing compost types and control for 2014. Color was rated on a scale from 1 to 3: light, medium, dark. Density was rated on a scale from 1 to 3: low, medium, high. Number dead does not include any dead trees that were determined to be dead on arrival (DOA).

| 2014 | | | | | | |
|------------------|----------------|----------------------------------|------------------|--------------|----------------|---------------|
| <i>Treatment</i> | <i>Block</i> | Shoot Length (inches) | Bud Count | Color | Density | # Dead |
| Compost A | IA | 9.91 | 2.55 | 2.82 | 2.93 | 5 |
| | IIA | 9.71 | 2.42 | 2.56 | 2.80 | 4 |
| | IIIA | 12.83 | 2.80 | 2.97 | 2.98 | 1 |
| | Average | 10.82 | 2.59 | 2.78 | 2.90 | 3.33 |
| Compost B | IA | 9.56 | 2.52 | 2.67 | 2.78 | 5 |
| | IIA | 8.95 | 2.20 | 2.36 | 2.67 | 1 |
| | IIIA | 12.96 | 2.89 | 2.90 | 2.98 | 2 |
| | Average | 10.49 | 2.54 | 2.64 | 2.81 | 2.67 |
| Control | IA | 9.55 | 2.45 | 2.28 | 2.27 | 6 |
| | IIA | 7.93 | 1.68 | 1.64 | 2.11 | 2 |
| | IIIA | 11.68 | 2.44 | 2.52 | 2.92 | 1 |
| | Average | 9.72 | 2.19 | 2.15 | 2.43 | 3.00 |