

# Appendix B

## Cover Depth Measurements

0.47 <sup>w</sup>/<sub>c</sub> Bridge Decks

|                  |             |                     |           |              |   |
|------------------|-------------|---------------------|-----------|--------------|---|
| <b>SN:</b>       | 6101        | <b>Surveyed by:</b> | R. Weyers | <b>Page:</b> | 1 |
| <b>District:</b> | Bristol (1) |                     | A. Mills  | <b>of:</b>   | 2 |
| <b>County:</b>   | Washington  |                     |           |              |   |
| <b>Date:</b>     | 8/20/2003   |                     |           |              |   |

  

|                         |                  |                  |                 |
|-------------------------|------------------|------------------|-----------------|
|                         | <b>Temp (°F)</b> | <b>Temp (°F)</b> |                 |
| <b>Time:</b>            | <b>Air:</b>      | <b>Deck:</b>     | <b>Weather:</b> |
| <b>Start:</b> 9:30 AM   | 70               | 72               | partly cloudy   |
| <b>Finish:</b> 12:00 PM | 80               | 91               | sunny           |

### Cover Depths

Profometer: 106988

Profometer: 106988

Area #: 1

Area #: 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 4             | 2.00       | 2.48      |
| 8             | 1.80       | 2.40      |
| 12            | 1.80       | 2.48      |
| 16            | 1.76       | 2.40      |
| 20            | 1.76       | 2.20      |
| 24            | 1.80       | 2.44      |
| 28            | 1.76       | 2.32      |
| 32            | 1.76       | 2.44      |
| 36            | 1.80       | 2.37      |
| 40            | 1.88       | 2.48      |
| 44            | 1.84       | 2.36      |
| 48            | 1.80       | 2.28      |
| 52            | 1.80       | 2.32      |
| 56            | 1.96       | 2.40      |
| 60            | 1.92       | 2.40      |
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| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 64            | 1.52       | 1.80      |
| 68            | 2.04       | 2.08      |
| 72            | 2.04       | 2.24      |
| 76            | 1.80       | 2.20      |
| 80            | 1.60       | 2.00      |
| 84            | 1.80       | 2.00      |
| 88            | 1.96       | 1.96      |
| 92            | 1.88       | 2.00      |
| 96            | 1.92       | 2.00      |
| 100           | 1.72       | 1.96      |
| 104           | 1.60       | 1.80      |
| 108           | 1.64       | 1.80      |
| 112           | 1.72       | 1.84      |
| 116           | 1.68       | 1.76      |
| 120           | 1.68       | 1.80      |
| 124           | 1.60       | 1.96      |
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|---------------------------|--------|
| Average:                  | 2.11   |
| Standard Deviation:       | 0.29   |
| Coefficient of Variation: | 13.89% |
| X <sub>12</sub>           | 1.78   |

|                           |       |
|---------------------------|-------|
| Average                   | 1.86  |
| Standard Deviation:       | 0.18  |
| Coefficient of Variation: | 9.67% |
| X <sub>12</sub>           | 1.63  |

**SN:** 6101      **Surveyed by:** R. Weyers      **Page:** 2  
**District:** Bristol (1)      A. Mills      **of:** 2  
**County:** Washington  
**Date:** 8/20/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|----------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 9:30 AM  | 70                | 72                 | partly cloudy |
| <b>Finish:</b> | 12:00 PM | 80                | 91                 | sunny         |

### Cover Depths

**Profometer:** 106988

**Profometer:** \_\_\_\_\_

**Area #:** 3

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 128           | 2.20       | 2.32      |
| 132           | 2.24       | 2.28      |
| 136           | 2.24       | 2.36      |
| 140           | 2.24       | 2.36      |
| 144           | 2.34       | 2.32      |
| 148           | 2.40       | 2.28      |
| 152           | 2.36       | 2.24      |
| 156           | 2.08       | 1.96      |
| 160           | 2.32       | 2.36      |
| 164           | 2.40       | 2.64      |
| 168           | 2.20       | 2.40      |
| 172           | 2.28       | 2.36      |
| 176           | 2.40       | 2.44      |
| 180           | 2.40       | 2.60      |
| 184           | 2.36       | 2.60      |
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| Distance (ft) | Right (in) | Left (in) |
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|----------------------------------|-------|
| <b>Average:</b>                  | 2.33  |
| <b>Standard Deviation:</b>       | 0.14  |
| <b>Coefficient of Variation:</b> | 5.94% |
| <b>X<sub>12</sub></b>            | 2.22  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 2007      **Surveyed by:** A. Mills      **Page:** 1  
**District:** Salem (2)      A. Ramniceanu      **of:** 1  
**County:** Montgomery  
**Date:** 5/20/2003

**Temp (°F)**      **Temp (°F)**  
**Time:**      **Air:**      **Deck:**      **Weather:**  
**Start:** 10:15 AM      68      67      sunny  
**Finish:** 10:40 AM      73      84      sunny

## Cover Depths

**Profometer:** 106987

**Profometer:** VT 000206244

**Area #:** 1

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| -12           |             | 1.64        |
| -8            |             | 1.44        |
| -4            |             | 1.44        |
| 0             | <b>1.20</b> | 1.60        |
| 4             | 1.48        | 1.48        |
| 8             | 1.44        | 1.52        |
| 12            | 1.44        | 1.44        |
| 16            | 1.44        | 1.60        |
| 20            | 1.56        | 1.56        |
| 24            | 1.48        | 1.64        |
| 28            | 1.76        | 1.48        |
| 32            | 1.52        | 1.60        |
| 36            | 1.60        | 1.66        |
| 40            | 1.52        | 1.68        |
| 44            | 1.52        | 1.64        |
| 48            | 1.48        | 1.64        |
| 52            | 1.56        | 1.44        |
| 56            | <b>1.36</b> | <b>1.40</b> |
| 60            | 1.44        | 1.52        |
| 64            | <b>1.36</b> | 1.60        |
| 68            | 1.44        |             |
| 72            | <b>1.36</b> |             |
| 76            | <b>1.40</b> |             |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 1.51  |
| <b>Standard Deviation:</b>       | 0.11  |
| <b>Coefficient of Variation:</b> | 7.24% |
| <b>X<sub>12</sub></b>            | 1.40  |

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 100           | 1.56        | 1.64        |
| 104           | 1.52        | <b>1.36</b> |
| 108           | 1.52        | 1.48        |
| 112           | 1.48        | 1.48        |
| 116           | 1.44        | 1.48        |
| 120           | 1.44        | 1.60        |
| 124           | 1.56        | 1.56        |
| 128           | 1.72        | 1.72        |
| 132           | 1.64        | 1.58        |
| 136           | 1.68        | 1.64        |
| 140           | <b>1.40</b> | 1.48        |
| 144           | <b>1.36</b> | 1.60        |
| 148           | 1.68        | 1.60        |
| 152           | 1.44        | 1.44        |
| 156           | <b>1.40</b> | <b>1.36</b> |
| 160           | 1.52        | 1.44        |
| 164           | 1.60        | 1.72        |
| 168           | 1.44        | 1.52        |
| 172           | <b>1.40</b> | 1.48        |
| 176           | 1.52        | 1.44        |
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|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 1.52  |
| <b>Standard Deviation:</b>       | 0.10  |
| <b>Coefficient of Variation:</b> | 6.83% |
| <b>X<sub>12</sub></b>            | 1.40  |

**SN:** 1021      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Lynchburg (3)      M. Brown      **of:** 2  
**County:** Nelson      A. Ramniceanu  
**Date:** 7/17/2003

|                | Time:    | Air: Temp (°F) | Deck: Temp (°F) | Weather: |
|----------------|----------|----------------|-----------------|----------|
| <b>Start:</b>  | 8:30 AM  | 70             | 72              | sunny    |
| <b>Finish:</b> | 10:45 AM | 84             | 104             | sunny    |

### Cover Depths

**Profometer:** 106988

**Profometer:** 106988

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 8             | 1.88        |             |
| 12            | <b>1.52</b> | 1.68        |
| 16            | <b>1.32</b> | 1.72        |
| 20            | 2.12        | 2.40        |
| 24            | 2.32        | 2.24        |
| 28            | 2.04        | 2.28        |
| 32            | 1.88        | 2.20        |
| 36            | 2.32        | 2.36        |
| 40            | 2.24        | 2.36        |
| 44            | 2.20        | 2.28        |
| 48            | 2.08        | 2.24        |
| 52            | 2.16        | 1.84        |
| 56            |             | <b>1.56</b> |
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| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 56            | <b>1.76</b> |             |
| 60            | 1.88        | 2.20        |
| 64            | <b>1.56</b> | 1.96        |
| 68            | 2.00        | 2.40        |
| 72            | 2.00        | 2.28        |
| 76            | 2.00        | 2.00        |
| 80            | 1.92        | 2.00        |
| 84            | 2.24        | 1.96        |
| 88            | 2.24        | 2.40        |
| 92            | 2.20        | 2.32        |
| 96            | 2.12        | 2.24        |
| 100           | 1.92        | <b>1.80</b> |
| 104           |             | 1.82        |
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| <b>Average:</b>                  | 2.05   |
| <b>Standard Deviation:</b>       | 0.30   |
| <b>Coefficient of Variation:</b> | 14.86% |
| <b>X<sub>12</sub></b>            | 1.65   |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.05   |
| <b>Standard Deviation:</b>       | 0.21   |
| <b>Coefficient of Variation:</b> | 10.47% |
| <b>X<sub>12</sub></b>            | 1.82   |

**SN:** 1021      **Surveyed by:** R. Weyers      **Page:** 2  
**District:** Lynchburg (3)      M. Brown      **of:** 2  
**County:** Nelson      A. Ramniceanu  
**Date:** 7/17/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 8:30 AM  | 70                | 72                 | sunny    |
| <b>Finish:</b> | 10:45 AM | 84                | 104                | sunny    |

### Cover Depths

**Profometer:** 106988

**Profometer:** \_\_\_\_\_

**Area #:** 3

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 104           | 1.56       |           |
| 108           | 1.80       | 1.96      |
| 112           | 2.40       | 1.96      |
| 116           | 2.00       | 2.16      |
| 120           | 2.32       | 2.28      |
| 124           | 2.40       | 2.24      |
| 128           | 2.24       | 2.16      |
| 132           | 2.20       | 2.20      |
| 136           | 2.16       | 2.12      |
| 140           | 2.12       | 2.16      |
| 144           | 2.32       | 1.92      |
| 148           | 1.72       | 2.28      |
| 152           |            | 1.84      |
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| Distance (ft) | Right (in) | Left (in) |
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|----------------------------------|--------|
| <b>Average:</b>                  | 2.11   |
| <b>Standard Deviation:</b>       | 0.22   |
| <b>Coefficient of Variation:</b> | 10.34% |
| <b>X<sub>12</sub></b>            | 1.83   |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1062      **Surveyed by:** Bill O.      **Page:** 1  
**District:** Richmond (4)      **of:** 1  
**County:** Brunswick  
**Date:** 9/10/2003

|                | Time: | Air: | Deck: | Weather: |
|----------------|-------|------|-------|----------|
| <b>Start:</b>  | 10:20 | 63   | 70    | Cloudy   |
| <b>Finish:</b> | 11:37 | 63   | 70    | Cloudy   |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** Span 3/2

**Area #:**

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 124           | -          | 2.64      |
| 128           | 2.24       | 2.72      |
| 132           | 2.40       | 2.84      |
| 136           | 2.40       | 2.72      |
| 140           | 2.40       | 2.88      |
| 144           | 2.40       | 2.80      |
| 148           | 2.48       | 2.72      |
| 152           | 2.28       | 2.96      |
| 156           | 2.80       | 2.80      |
| 160           | 2.28       | 2.76      |
| 164           | 2.36       | -         |
| 56            | 1.42       | 1.68      |
| 60            | 1.80       | 1.84      |
| 64            | 1.80       | 1.88      |
| 68            | 2.24       | 2.20      |
| 72            | 2.24       | 2.40      |
| 76            | 2.00       | 1.88      |
| 80            | 1.96       | 2.00      |
| 84            | 1.76       | 2.00      |
| 88            | 1.92       | 2.08      |
| 92            | 1.92       | 2.00      |

<Span 3

<Span 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 96            | 2.00       | 2.04      |
| 100           | 1.92       | 2.08      |
| 104           | 1.80       | 1.96      |
| 108           | 1.76       | 1.84      |
| 112           | 1.96       | 1.96      |
| 116           | 1.88       | 1.96      |
| 120           | 1.32       | -         |
| 0             | 2.20       | 2.44      |
| 4             | 1.92       | 2.56      |
| 8             | 2.28       | 2.60      |
| 12            | 2.60       | 2.80      |
| 16            | 2.48       | 2.80      |
| 20            | 2.72       | 2.56      |
| 24            | 2.28       | 2.76      |
| 28            | 2.52       | 2.72      |
| 32            | 2.60       | 3.16      |
| 36            | 2.56       | 2.92      |
| 40            | 2.40       | 2.76      |
| 44            | 2.40       | 2.72      |
| 48            | 2.16       | 2.52      |
| 52            | 2.28       | -         |

|                                  |  |
|----------------------------------|--|
| <b>Average:</b>                  |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 2049      **Surveyed by:** Bill O.      **Page:** 1  
**District:** Richmond (4)      **of:** 1  
**County:** Dinwiddie  
**Date:** 9/11/2003

|                | Time: | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|-------|-------------------|--------------------|----------|
| <b>Start:</b>  | 9:23  | 67                | 64                 | Sunny    |
| <b>Finish:</b> | 10:35 | 64                | 65                 | Sunny    |

## Cover Depths

Profometer: \_\_\_\_\_

Profometer: \_\_\_\_\_

**Area #:** \_\_\_\_\_

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |      |
|---------------|------------|-----------|------|
| 92            | 2.64       | 2.44      | <--3 |
| 96            | 2.44       | 2.24      |      |
| 100           | 2.32       | 2.28      |      |
| 104           | 2.28       | 2.00      |      |
| 108           | 2.28       | 2.24      |      |
| 112           | 2.28       | 2.08      |      |
| 116           | 2.28       | 2.16      |      |
| 120           | 2.56       | 2.40      | <--2 |
| 124           | 2.36       | 2.28      |      |
| 128           | 2.24       | 1.96      |      |
| 48            | 1.80       | 1.64      |      |
| 52            | 1.72       | 1.60      |      |
| 56            | 1.80       | 1.76      |      |
| 60            | 2.12       | 1.90      |      |
| 64            | 1.68       | 1.68      |      |
| 68            | 1.64       | 1.88      |      |
| 72            | 1.68       | 1.64      |      |
| 76            | 1.76       | 1.68      |      |
| 80            | 1.80       | 2.16      |      |
| 84            | 1.80       | 1.96      |      |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 4             | 2.04       | 2.34      |
| 8             | 2.20       | 2.24      |
| 12            | 2.24       | 2.32      |
| 16            | 2.08       | 2.16      |
| 20            | 1.64       | 1.72      |
| 24            | 1.84       | 1.96      |
| 28            | 2.16       | 2.36      |
| 32            | 2.12       | 2.24      |
| 36            | 2.24       | 2.28      |
| 40            | 2.08       | 2.24      |
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| <b>Average:</b>                  |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1800      **Surveyed by:** A. Ramniceanu      **Page:** 1  
**District:** Hampton Roads (5)      **of:** 1  
**County:** Emporia  
**Date:** 6/25/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 10:25 AM | 86                | 102                | sunny    |
| <b>Finish:</b> | 11:05 AM | 94                | 104                | sunny    |

### Cover Depths

**Profometer:** 106987

**Profometer:** \_\_\_\_\_

**Area #:** 2

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 64            | 2.16       | 2.40      |
| 68            | 2.00       | 2.32      |
| 72            | 2.04       | 2.32      |
| 76            | 2.24       | 2.40      |
| 80            | 2.12       | 2.40      |
| 84            | 1.92       | 2.12      |
| 88            | 1.56       | 1.92      |
| 92            | 1.76       | 2.36      |
| 96            | 1.72       | 2.12      |
| 100           | 1.88       | 1.92      |
| 104           | 1.60       | 1.60      |
| 108           | 1.24       | 1.24      |
| 112           | 1.40       | 1.20      |
| 116           | 1.48       | 1.36      |
| 120           | 1.20       | 1.44      |
| 124           | 1.24       | 1.20      |
| 128           | 1.28       | 1.32      |
| 132           | 1.24       | 1.52      |
| 136           | 1.72       | 2.00      |
| 140           | 1.76       | 1.80      |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
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|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 1.76   |
| <b>Standard Deviation:</b>       | 0.40   |
| <b>Coefficient of Variation:</b> | 22.89% |
| <b>X<sub>12</sub></b>            | 1.24   |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1032      **Surveyed by:** A. Ramniceanu      **Page:** 1  
**District:** Fredericksburg (6)      J. Morris      **of:** 1  
**County:** Stafford  
**Date:** 6/12/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 10:00 AM | 78                | 80                 | overcast |
| <b>Finish:</b> | 10:45 AM | 83                | 85                 | overcast |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 0             | 2.76        | <b>2.40</b> |
| 2             | 2.80        | 2.56        |
| 4             | 3.00        | 2.60        |
| 6             | 2.76        | 2.48        |
| 8             | 2.96        | 2.72        |
| 10            | 3.00        | 2.64        |
| 12            | 3.12        | 2.44        |
| 14            | 3.08        | 2.60        |
| 16            | 2.68        | <b>2.40</b> |
| 18            | 3.12        | 2.60        |
| 20            | 2.72        | 2.48        |
| 22            | 3.12        | 2.72        |
| 24            | 2.92        | <b>2.40</b> |
| 26            | 2.80        | <b>2.32</b> |
| 28            | 2.72        | <b>2.36</b> |
| 30            | 2.76        | <b>2.40</b> |
| 32            | 2.92        | 2.56        |
| 34            | <b>2.00</b> | <b>2.40</b> |
| 36            | 2.76        | <b>2.40</b> |
| 38            | 2.72        | <b>2.40</b> |
|               |             |             |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 52            | <b>2.04</b> | 2.28        |
| 56            | 2.36        | 2.20        |
| 58            | 2.32        | 2.40        |
| 60            | 2.24        | 2.32        |
| 64            | 2.20        | 2.12        |
| 68            | 2.08        | <b>2.04</b> |
| 72            | 2.16        | 2.12        |
| 76            | 2.24        | 2.12        |
| 80            | 2.40        | 2.20        |
| 82            | 2.52        | 2.12        |
| 84            | 2.40        | 2.16        |
| 88            | 2.40        | 2.28        |
| 92            | 2.56        | 2.12        |
| 96            | 2.60        | 2.32        |
| 100           | 2.40        | 2.24        |
| 104           | <b>2.00</b> | 2.20        |
| 106           | 2.36        | 2.28        |
| 108           | 2.32        | <b>1.72</b> |
| 112           | 2.28        | <b>1.96</b> |
| 116           | <b>2.04</b> | 2.28        |
|               |             |             |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.67  |
| <b>Standard Deviation:</b>       | 0.26  |
| <b>Coefficient of Variation:</b> | 9.73% |
| <b>X<sub>12</sub></b>            | 2.40  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.24  |
| <b>Standard Deviation:</b>       | 0.17  |
| <b>Coefficient of Variation:</b> | 7.66% |
| <b>X<sub>12</sub></b>            | 2.04  |

**SN:** 2801      **Surveyed by:** A. Ramniceanu      **Page:** 1  
**District:** N. Virginia (9)      W. Keller      **of:** 1  
**County:** Alexandria  
**Date:** 6/5/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 9:45 AM  | 79                | 72                 | sunny    |
| <b>Finish:</b> | 10:30 AM | 81                | 72                 | sunny    |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 8             | 1.80       | 1.76      |
| 12            | 1.60       | 1.72      |
| 16            | 1.72       | 1.80      |
| 20            | 1.64       | 1.72      |
| 24            | 1.64       | 1.28      |
| 28            | 1.64       | 1.36      |
| 32            | 1.32       | 1.16      |
| 36            | 1.36       | 1.08      |
| 40            | 1.72       | 1.24      |
| 44            | 1.80       | 1.36      |
| 48            | 1.44       | 1.28      |
| 52            | 1.36       | 1.20      |
| 56            | 1.40       | 1.12      |
| 60            | 1.48       | 1.08      |
| 64            | 1.72       | 1.40      |
| 68            | 1.80       | 1.44      |
| 72            | 1.68       | 1.20      |
| 76            | 1.60       | 1.04      |
| 80            | 1.80       | 1.04      |
| 84            | 1.68       | 1.04      |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 116           | 2.16       | 1.24      |
| 120           | 2.12       | 1.80      |
| 124           | 2.20       | 1.32      |
| 128           | 2.12       | 1.44      |
| 132           | 2.04       | 1.00      |
| 136           | 2.12       | 1.60      |
| 140           | 2.00       | 1.56      |
| 144           | 2.12       | 1.24      |
| 148           | 2.00       | 1.88      |
| 152           | 2.22       | 1.64      |
| 156           | 2.00       | 1.68      |
| 160           | 2.08       | 1.44      |
| 164           | 2.04       | 1.48      |
| 168           | 2.04       | 1.04      |
| 172           | 1.88       | 1.72      |
| 176           | 1.80       | 1.52      |
| 180           | 1.84       | 1.44      |
| 184           | 1.80       | 1.72      |
| 188           | 2.04       | 1.44      |
| 192           | 2.00       | 1.20      |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 1.46   |
| <b>Standard Deviation:</b>       | 0.26   |
| <b>Coefficient of Variation:</b> | 17.58% |
| <b>X<sub>12</sub></b>            | 1.11   |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 1.75   |
| <b>Standard Deviation:</b>       | 0.34   |
| <b>Coefficient of Variation:</b> | 19.50% |
| <b>X<sub>12</sub></b>            | 1.29   |

Page: 1  
of: 1

## Cover Depths

Profometer: \_\_\_\_\_

**Area #:**

[illegible]

|                           |  |
|---------------------------|--|
| Average                   |  |
| Standard Deviation:       |  |
| Coefficient of Variation: |  |
| $X_{12}$                  |  |

0.47 <sup>w</sup>/c Bridge Decks

**SN:** 1132      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Bristol (1)      M. Brown      **of:** 1  
**County:** Russell      A. Ramniceanu  
**Date:** 8/12/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|----------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 9:50 AM  | 68                | 75                 | partly cloudy |
| <b>Finish:</b> | 11:20 AM | 77                | 92                 | sunny         |

## Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 60            | 2.52       | 2.48      |
| 64            | 2.64       | 2.40      |
| 68            | 2.64       | 2.68      |
| 72            | 2.64       | 2.52      |
| 76            | 2.56       | 2.32      |
| 80            | 2.32       | 2.08      |
| 84            | 2.40       | 2.40      |
| 88            | 2.40       | 2.80      |
| 92            | 2.32       | 2.40      |
| 96            | 2.20       | 2.32      |
| 100           | 2.24       | 2.28      |
| 104           | 2.08       | 2.40      |
| 108           | 1.18       | 2.32      |
| 112           | 1.96       | 2.24      |
| 116           | 1.96       | 2.04      |
| 120           | 2.12       | 1.84      |
| 124           | 2.12       | 2.00      |
| 128           | 2.04       | 2.32      |
|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 132           | 2.16       | 2.32      |
| 136           | 2.16       | 2.36      |
| 140           | 2.16       | 2.24      |
| 144           | 2.00       | 1.80      |
| 148           | 1.96       | 1.76      |
| 152           | 1.88       | 1.88      |
| 156           | 1.96       | 1.88      |
| 160           | 1.92       | 1.96      |
| 164           | 1.68       | 1.72      |
| 168           | 1.72       | 1.48      |
| 172           | 2.12       | 2.28      |
| 176           | 1.84       | 2.12      |
| 180           | 2.00       | 2.04      |
| 184           | 2.24       | 2.36      |
| 188           | 2.32       | 2.48      |
| 192           | 2.28       | 2.28      |
| 196           | 2.16       | 2.16      |
| 200           | 2.04       | 1.96      |
| 204           | 2.04       | 2.48      |
| 208           | 2.20       | 2.12      |
| 212           | 2.24       | 2.40      |
| 216           | 2.24       | 2.20      |
| 220           | 2.28       | 2.40      |
| 224           | 2.28       | 2.36      |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.28   |
| <b>Standard Deviation:</b>       | 0.30   |
| <b>Coefficient of Variation:</b> | 13.02% |
| <b>X<sub>12</sub></b>            | 2.01   |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.10   |
| <b>Standard Deviation:</b>       | 0.23   |
| <b>Coefficient of Variation:</b> | 10.88% |
| <b>X<sub>12</sub></b>            | 1.83   |

**SN:** 1133      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Bristol (1)      M. Brown      **of:** 2  
**County:** Russell      A. Ramniceanu  
**Date:** 8/13/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|----------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 9:15 AM  | 72                | 76                 | cloudy        |
| <b>Finish:</b> | 10:50 AM | 73                | 88                 | partly cloudy |

### Cover Depths

**Profometer:** 106988

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 8             | 2.56       | 2.60      |
| 12            | 2.68       | 2.60      |
| 16            | 2.68       | 2.76      |
| 20            | 2.44       | 2.64      |
| 24            | 2.40       | 2.48      |
| 28            | 2.48       | 2.52      |
| 32            | 2.40       | 2.40      |
| 36            | 2.44       | 2.44      |
| 40            | 2.72       | 2.64      |
| 44            | 2.40       | 2.40      |
|               |            |           |
|               |            |           |
|               |            |           |
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|               |            |           |
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|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 48            | 2.48       | 2.40      |
| 52            | 2.40       | 2.56      |
| 56            | 2.28       | 2.48      |
| 60            | 2.56       | 2.56      |
| 64            | 2.56       | 2.56      |
| 68            | 2.52       | 2.56      |
| 72            | 2.12       | 2.28      |
| 76            | 2.16       | 2.40      |
| 80            | 2.28       | 2.40      |
| 84            | 2.28       | 2.52      |
| 88            | 2.36       | 2.60      |
| 92            | 2.36       | 2.40      |
| 96            | 2.16       | 2.52      |
| 100           | 2.32       | 2.52      |
| 104           | 2.40       | 2.52      |
| 108           | 2.40       | 2.40      |
| 112           | 2.60       | 2.60      |
| 116           | 2.24       | 2.56      |
| 120           | 2.00       | 2.32      |
| 124           | 2.04       | 2.24      |
| 128           | 2.04       | 2.24      |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.53  |
| <b>Standard Deviation:</b>       | 0.12  |
| <b>Coefficient of Variation:</b> | 4.81% |
| <b>X<sub>12</sub></b>            | 2.40  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.39  |
| <b>Standard Deviation:</b>       | 0.17  |
| <b>Coefficient of Variation:</b> | 6.99% |
| <b>X<sub>12</sub></b>            | 2.16  |

Page: 2  
of: 2

## Cover Depths

Profometer: \_\_\_\_\_

**Area #:** \_\_\_\_\_

[illegible][illegible]

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.49  |
| <b>Standard Deviation:</b>       | 0.21  |
| <b>Coefficient of Variation:</b> | 8.49% |
| <b>X<sub>12</sub></b>            | 2.40  |

|                           |  |
|---------------------------|--|
| Average                   |  |
| Standard Deviation:       |  |
| Coefficient of Variation: |  |
| $X_{12}$                  |  |

**SN:** 2820      **Surveyed by:** A. Ramniceanu      **Page:** 1  
**District:** Bristol (1)      A. Mills      **of:** 1  
**County:** Wytheville  
**Date:** 5/22/2003

|                |              |                  |                  |                                |
|----------------|--------------|------------------|------------------|--------------------------------|
|                | <b>Time:</b> | <b>Temp (°F)</b> | <b>Temp (°F)</b> |                                |
| <b>Start:</b>  | 8:30 AM      | <b>Air:</b> 48   | <b>Deck:</b> 55  | <b>Weather:</b> overcast, damp |
| <b>Finish:</b> | 9:00 AM      | 48               | 55               | overcast, damp                 |

### Cover Depths

**Profometer:** 106987

**Profometer:** VT000206244

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 6             | <b>2.40</b> |             |
| 8             | 2.60        |             |
| 10            | 2.92        | 2.64        |
| 12            | 3.00        | 2.80        |
| 14            | 3.20        | 3.20        |
| 16            | 3.20        | 3.16        |
| 18            | 2.80        | 3.12        |
| 20            | 2.72        | 3.00        |
| 22            | 3.04        | 3.12        |
| 24            | 2.80        | 3.00        |
| 26            | 3.00        | 2.92        |
| 28            | 2.96        | 2.66        |
| 30            | <b>2.48</b> | 2.80        |
| 32            | <b>2.48</b> | 2.76        |
| 34            | 2.60        | 2.60        |
| 36            | 2.72        | <b>2.40</b> |
| 38            | 3.00        | <b>2.48</b> |
| 40            | 3.20        | 2.80        |
| 42            | 3.20        | 3.20        |
| 44            | 3.20        | 3.20        |
| 46            | 3.24        | 3.08        |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.89  |
| <b>Standard Deviation:</b>       | 0.26  |
| <b>Coefficient of Variation:</b> | 9.03% |
| <b>X<sub>12</sub></b>            | 2.56  |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 64            | <b>2.56</b> |             |
| 68            | 2.92        | <b>2.28</b> |
| 72            | 2.92        | 2.76        |
| 74            | 3.04        | 2.88        |
| 76            | 3.20        | 2.92        |
| 78            | 3.00        | 2.84        |
| 80            | 2.80        | 2.88        |
| 82            | 2.96        | 2.80        |
| 84            | 2.92        | 3.04        |
| 86            | 2.68        | 3.12        |
| 88            | 2.76        | 2.88        |
| 90            | 2.80        | 2.68        |
| 92            | 2.84        | 3.00        |
| 94            | 2.72        | <b>2.64</b> |
| 96            | 2.92        | 2.72        |
| 98            |             | 2.96        |
| 100           | 3.00        | 3.00        |
| 104           | 2.76        | 2.72        |
| 108           | 2.76        | 2.76        |
| 112           | 2.84        | 2.92        |
| 116           | <b>2.52</b> | <b>2.44</b> |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.83  |
| <b>Standard Deviation:</b>       | 0.18  |
| <b>Coefficient of Variation:</b> | 6.41% |
| <b>X<sub>12</sub></b>            | 2.67  |

**SN:** 6051      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Bristol (1)      D. Mokarem      **of:** 2  
**County:** Smyth  
**Date:** 8/19/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:     |
|----------------|----------|-------------------|--------------------|--------------|
| <b>Start:</b>  | 9:00 AM  | 70                | 80                 | partly sunny |
| <b>Finish:</b> | 11:20 AM | 74                | 86                 | sunny        |

### Cover Depths

**Profometer:** 106988

**Profometer:** 106987

**Area #:** 3

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 136           |            | 1.92      |
| 140           | 2.60       | 2.28      |
| 144           | 2.64       | 2.36      |
| 148           | 2.40       | 2.24      |
| 152           | 2.36       | 2.28      |
| 156           | 2.24       | 2.20      |
| 160           | 1.96       | 1.80      |
| 164           | 1.88       | 2.20      |
| 168           | 1.92       | 2.60      |
| 172           | 1.80       | 1.92      |
| 176           | 1.84       | 1.80      |
| 180           | 1.96       | 1.80      |
| 184           | 1.80       | 1.68      |
| 188           | 1.80       | 1.80      |
| 192           | 1.80       | 2.28      |
| 196           | 2.24       | 2.24      |
| 200           | 2.64       | 2.60      |
| 204           | 2.80       |           |
|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 68            |            | 2.56      |
| 72            | 2.64       | 2.60      |
| 76            | 2.60       | 2.64      |
| 80            | 2.24       | 2.32      |
| 84            | 2.00       | 2.24      |
| 88            | 2.16       | 2.20      |
| 92            | 2.16       | 2.24      |
| 96            | 2.12       | 2.00      |
| 100           | 1.92       | 2.00      |
| 104           | 2.20       | 2.16      |
| 108           | 2.08       | 2.00      |
| 112           | 2.28       | 2.20      |
| 114           | 2.24       | 2.36      |
| 118           | 2.28       | 2.48      |
| 122           | 2.08       | 3.16      |
| 126           | 2.20       | 2.40      |
| 130           | 2.44       | 2.52      |
| 134           | 2.72       |           |
|               |            |           |
|               |            |           |
|               |            |           |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.14   |
| <b>Standard Deviation:</b>       | 0.32   |
| <b>Coefficient of Variation:</b> | 14.89% |
| <b>X<sub>12</sub></b>            | 1.80   |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.31   |
| <b>Standard Deviation:</b>       | 0.26   |
| <b>Coefficient of Variation:</b> | 11.33% |
| <b>X<sub>12</sub></b>            | 2.00   |

**SN:** 6051      **Surveyed by:** R. Weyers      **Page:** 2  
**District:** Bristol (1)      D. Mokarem      **of:** 2  
**County:** Smyth  
**Date:** 8/19/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:     |
|----------------|----------|-------------------|--------------------|--------------|
| <b>Start:</b>  | 9:00 AM  | 70                | 80                 | partly sunny |
| <b>Finish:</b> | 11:20 AM | 74                | 86                 | sunny        |

### Cover Depths

**Profometer:** 106988

**Profometer:** \_\_\_\_\_

**Area #:** 1

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 0             | 2.24       | 2.20      |
| 4             | 2.08       | 1.92      |
| 8             | 2.00       | 1.92      |
| 12            | 2.32       | 2.16      |
| 16            | 2.24       | 2.00      |
| 20            | 2.20       | 2.04      |
| 24            | 2.12       | 1.96      |
| 28            | 2.16       | 2.00      |
| 32            | 2.36       | 1.92      |
| 36            | 2.40       | 2.00      |
| 40            | 2.20       | 1.96      |
| 44            | 2.00       | 1.84      |
| 48            | 2.08       | 1.80      |
| 52            | 2.28       | 1.88      |
| 56            | 2.32       | 2.04      |
| 60            | 2.40       | 2.29      |
| 64            | 2.32       | 2.20      |
| 68            | 2.36       |           |
|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.12  |
| <b>Standard Deviation:</b>       | 0.17  |
| <b>Coefficient of Variation:</b> | 8.10% |
| <b>X<sub>12</sub></b>            | 1.92  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1020      **Surveyed by:** M. Brown      **Page:** 1  
**District:** Salem (2)      D. Mokarem      **of:** 2  
**County:** Giles      A. Ramniceanu  
**Date:** 8/5/2003

**Temp (°F)**      **Temp (°F)**  
**Air:**      **Deck:**      **Weather:**  
**Start:** Time: 9:30 AM      72      83      sunny  
**Finish:** 10:50 AM      76      89      sunny

### Cover Depths

**Profometer:** 106988

**Profometer:** 106988

**Area #:** 1

**Area #:** 1

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 0             | 2.20        | 2.16        |
| 4             | 2.24        | 2.20        |
| 8             | 2.24        | 2.24        |
| 12            | 2.12        | 2.00        |
| 16            | <b>1.80</b> | 2.76        |
| 20            | <b>1.80</b> | <b>1.80</b> |
| 24            | <b>1.80</b> | <b>1.80</b> |
| 28            | 1.92        | 2.04        |
| 32            | 2.04        | 2.00        |
| 36            | 2.04        | <b>1.76</b> |
| 40            | 1.88        | 1.88        |
| 44            | 1.84        | 2.16        |
| 48            | 2.00        | 2.24        |
| 52            | 2.16        | 2.24        |
| 56            | 2.20        | 2.20        |
| 60            | 2.00        | 2.32        |
| 64            | 1.92        | 2.12        |
| 68            | 2.08        | 2.40        |
| 72            | 2.08        | 2.24        |
| 76            | 2.04        | 2.40        |
| 80            | 2.24        | 2.40        |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 84            | 2.32        | 2.56        |
| 88            | 2.12        | 2.40        |
| 92            | 2.08        | 2.08        |
| 96            | 2.16        | 2.24        |
| 100           | 2.20        | 2.28        |
| 104           | 2.00        | 2.00        |
| 108           | 1.80        | <b>1.68</b> |
| 112           | <b>1.76</b> | <b>1.60</b> |
| 116           | 1.92        | 1.80        |
| 120           | 2.00        | 2.04        |
| 124           | 2.08        | 2.32        |
| 128           | 2.16        | 2.24        |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.10  |
| <b>Standard Deviation:</b>       | 0.21  |
| <b>Coefficient of Variation:</b> | 9.98% |
| <b>X<sub>12</sub></b>            | 1.80  |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.08   |
| <b>Standard Deviation:</b>       | 0.23   |
| <b>Coefficient of Variation:</b> | 11.29% |
| <b>X<sub>12</sub></b>            | 1.79   |

Page: 2  
of: 2

|         |          | Temp      |           |
|---------|----------|-----------|-----------|
|         | Time:    | Temp (°F) | Temp (°F) |
| Start:  | 9:30 AM  | Air: 72   | Deck: 83  |
| Finish: | 10:50 AM | 76        | 89        |
|         |          | Weather:  |           |
|         |          | sunny     |           |
|         |          | sunny     |           |

## Cover Depths

Profometer: 106988Profometer: 106988

**Area #:** 1

**Area #:** 1

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 132           | 1.96        | 2.08        |
| 136           | <b>1.84</b> | 1.96        |
| 140           | <b>1.88</b> | 2.12        |
| 144           | <b>1.88</b> | 1.96        |
| 148           | <b>1.84</b> | <b>1.92</b> |
| 152           | 2.16        | 2.24        |
| 156           | 2.20        | 2.28        |
| 160           | 2.28        | 2.40        |
| 164           | 2.40        | 2.60        |
| 168           | 2.40        | 2.64        |
| 172           | 2.76        | 2.80        |
| 176           | 2.40        | 2.40        |
| 180           | 2.36        | 2.60        |
| 184           | 2.20        | 2.52        |
| 188           | 2.40        | 2.56        |
| 192           | 2.28        | 2.60        |
| 196           | 2.40        | 2.64        |
| 200           | 2.48        | 2.56        |
| 204           | 2.40        | 2.40        |
| 208           | 2.28        | 2.28        |
| 212           | 2.44        | 2.64        |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.32   |
| <b>Standard Deviation:</b>       | 0.26   |
| <b>Coefficient of Variation:</b> | 11.23% |
| <b><math>X_{12}</math></b>       | 1.96   |

[illegible]

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.27  |
| <b>Standard Deviation:</b>       | 0.17  |
| <b>Coefficient of Variation:</b> | 7.38% |
| <b>X<sub>12</sub></b>            | 2.06  |

**SN:** 1003      **Surveyed by:** M. Brown      **Page:** 1  
**District:** Lynchburg (3)      A. Ramniceanu      **of:** 1  
**County:** Cumberland  
**Date:** 6/26/2003

|                | Time:   | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|---------|-------------------|--------------------|----------|
| <b>Start:</b>  | 8:45 AM | 90                | 87                 | sunny    |
| <b>Finish:</b> | 9:55 AM | 93                | 102                | sunny    |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 4             | 2.08        | 2.36        |
| 8             | 2.08        | 2.16        |
| 12            | 2.12        | <b>1.96</b> |
| 16            | 2.28        | 2.32        |
| 20            | 2.28        | 2.20        |
| 24            | 2.40        | 2.40        |
| 28            | <b>1.92</b> | 2.24        |
| 32            | 2.08        | 2.40        |
| 36            | 2.36        | 2.32        |
| 40            | 2.28        | 2.60        |
| 44            | 2.52        | 2.56        |
| 48            | 2.16        | 2.12        |
| 52            | 2.36        | 2.76        |
| 56            | 2.00        | 2.28        |
| 60            | <b>1.96</b> | 2.20        |
| 64            | 2.20        | 2.36        |
| 68            | <b>1.88</b> | <b>1.56</b> |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 72            | 2.44        | 2.28        |
| 76            | 2.60        | 2.40        |
| 80            | 2.40        | <b>1.96</b> |
| 84            | 2.52        | 2.44        |
| 88            | 2.28        | <b>1.98</b> |
| 92            | 2.40        | 2.48        |
| 96            | 2.36        | 2.16        |
| 100           | 2.64        | 2.60        |
| 104           | 2.32        | 2.32        |
| 108           | 2.56        | 2.56        |
| 112           | 2.44        | 2.40        |
| 116           | 2.24        | <b>2.08</b> |
| 120           | 2.16        | <b>2.12</b> |
| 124           | 2.24        | 2.36        |
| 128           | <b>2.12</b> | 2.16        |
| 132           | 2.64        | 2.52        |
| 136           | 2.80        | 2.52        |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.23   |
| <b>Standard Deviation:</b>       | 0.23   |
| <b>Coefficient of Variation:</b> | 10.37% |
| <b>X<sub>12</sub></b>            | 1.96   |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.37  |
| <b>Standard Deviation:</b>       | 0.20  |
| <b>Coefficient of Variation:</b> | 8.46% |
| <b>X<sub>12</sub></b>            | 2.12  |

**SN:** 1007      **Surveyed by:** Mike Brown (106988)      **Page:** 1  
**District:** Richmond (4)      Bill Ordel (106987)      **of:** 1  
**County:** Chesterfield      R.E. Weyers  
**Date:** 9/9/2003

|                | Time: | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|-------|-------------------|--------------------|----------|
| <b>Start:</b>  | 10:30 | 71                | 73                 | Cloudy   |
| <b>Finish:</b> | 12:30 | 77                | 92                 | Cloudy   |

### Cover Depths

106988 (cracked  
 at connect point  
 on probe)  
**Profometer:** \_\_\_\_\_

**Profometer:** 106987

| <b>Area #:</b> <u>Span 1/2</u> |            |           |
|--------------------------------|------------|-----------|
|                                | 15'        | 20'       |
| Distance (ft)                  | Right (in) | Left (in) |
| 8                              | 2.40       | -         |
| 12                             | 2.52       | 2.40      |
| 16                             | 2.60       | 2.48      |
| 20                             | 2.64       | 2.56      |
| 24                             | 2.60       | 2.60      |
| 28                             | 2.56       | 2.40      |
| 32                             | 2.56       | 2.32      |
| 36                             | 2.40       | 2.40      |
| 40                             | 2.44       | 2.40      |
| 44                             | 2.40       | 2.52      |
| 48                             | 2.40       | 2.36      |
| 52                             | -          | 2.28      |
| 52                             | 2.40       | -         |
| 56                             | 2.40       | 2.20      |
| 60                             | 2.28       | 2.28      |
| 64                             | 2.32       | 2.24      |
| 68                             | 2.60       | 2.16      |
| 72                             | 2.64       | 2.28      |
| 76                             | 2.44       | 2.36      |
| 80                             | 2.40       | 2.00      |
| 84                             | 2.56       | 2.16      |

|                                  |  |
|----------------------------------|--|
| <b>Average:</b>                  |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

| <b>Area #:</b> <u>Span2/3</u> |            |           |
|-------------------------------|------------|-----------|
|                               | 15'        | 20'       |
| Distance (ft)                 | Right (in) | Left (in) |
| 88                            | 2.40       | 2.32      |
| 92                            | 2.52       | 2.28      |
| 96                            | 2.60       | 2.32      |
| 100                           | 2.40       | 2.28      |
| 104                           | 2.20       | 2.28      |
| 108                           | 2.36       | 2.20      |
| 112                           | 2.40       | 2.28      |
| 116                           | 2.40       | 2.36      |
| 120                           | 2.64       | 2.40      |
| 124                           | 2.48       | 2.32      |
| 128                           | 2.64       | 2.24      |
| 132                           | 2.72       | 2.28      |
| 136                           | 2.64       | 2.24      |
| 140                           | 2.60       | 2.36      |
|                               |            |           |
|                               |            |           |
|                               |            |           |
|                               |            |           |
|                               |            |           |
|                               |            |           |
|                               |            |           |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 2901      **Surveyed by:** J. Morris      **Page:** 1  
**District:** Richmond (4)      A. Ramniceanu      **of:** 1  
**County:** Prince George  
**Date:** 5/28/2003

|                | Time:   | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|---------|-------------------|--------------------|----------|
| <b>Start:</b>  | 8:37 AM | 66                | 63                 | cloudy   |
| <b>Finish:</b> | 9:07 AM | 68                | 64                 | cloudy   |

### Cover Depths

**Profometer:** VT000206244

**Profometer:** 106987

**Area #:** 3

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 4             | 1.84       | 2.00      |
| 8             | 2.20       | 2.24      |
| 12            | 2.20       | 2.00      |
| 16            | 2.40       | 2.12      |
| 20            | 2.36       | 2.28      |
| 24            | 2.40       | 2.36      |
| 28            | 2.52       | 2.36      |
| 32            | 2.56       | 2.32      |
| 36            | 2.36       | 2.24      |
| 40            | 2.40       | 2.28      |
| 44            | 2.40       | 2.32      |
| 48            | 2.36       | 2.28      |
| 52            | 2.08       | 2.20      |
| 56            | 2.08       | 2.20      |
| 60            | 2.04       | 2.20      |
| 64            | 2.24       | 2.24      |
| 68            | 2.80       | 2.20      |
| 72            | 2.64       | 2.36      |
| 78            | 1.84       | 2.20      |
| 80            | 1.88       | 2.28      |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 144           | 3.24       | 2.56      |
| 148           | 2.20       | 2.40      |
| 152           | 3.44       | 2.72      |
| 156           | 2.40       | 2.68      |
| 160           | 2.60       | 2.60      |
| 164           | 2.64       | 2.72      |
| 168           | 2.64       | 2.72      |
| 172           | 2.48       | 2.76      |
| 176           | 2.24       | 2.64      |
| 180           | 2.20       | 2.84      |
| 184           | 2.60       | 2.76      |
| 188           | 2.56       | 2.72      |
| 192           | 2.56       | 2.80      |
| 196           | 2.64       | 2.36      |
| 200           | 2.68       | 2.76      |
| 204           | 2.60       | 2.92      |
| 208           | 2.76       | 2.68      |
| 212           | 2.76       | 2.60      |
| 216           | 2.64       | 2.80      |
| 220           | 2.64       | 2.72      |
|               |            |           |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.26  |
| <b>Standard Deviation:</b>       | 0.20  |
| <b>Coefficient of Variation:</b> | 8.78% |
| <b>X<sub>12</sub></b>            | 2.03  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.66  |
| <b>Standard Deviation:</b>       | 0.23  |
| <b>Coefficient of Variation:</b> | 8.65% |
| <b>X<sub>12</sub></b>            | 2.40  |

**SN:** 2547 **Surveyed by:** J. Moris **Page:** 1  
Hampton Roads  
**District:** (5) A. Ramniceanu **of:** 1  
**County:** Chesapeake  
**Date:** 5/29/2003

|                | Time:   | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|---------|-------------------|--------------------|----------|
| <b>Start:</b>  | 9:00 AM | 64                | 68                 | cloudy   |
| <b>Finish:</b> | 9:35 AM | 64                | 68                 | cloudy   |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 2

**Area #:** 3

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 56            | 2.72       | 2.40      |
| 60            | 2.64       | 2.56      |
| 64            | 3.16       | 2.48      |
| 68            | 2.60       | 2.40      |
| 72            | 2.64       | 2.40      |
| 76            | 2.76       | 2.40      |
| 80            | 2.76       | 2.48      |
| 84            | 2.60       | 2.40      |
| 88            | 2.60       | 2.28      |
| 92            | 2.64       | 2.40      |
| 96            | 2.40       | 2.44      |
| 100           | 2.40       | 2.40      |
| 104           | 2.40       | 2.48      |
| 108           | 2.56       | 2.48      |
| 112           | 2.64       | 2.56      |
| 116           | 2.60       | 2.40      |
| 120           | 2.44       | 2.36      |
| 124           | 2.32       | 1.56      |
| 128           | 2.40       | 2.40      |
| 132           | 2.64       | 2.68      |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 152           | 2.64       | 2.60      |
| 154           | 2.56       | 2.40      |
| 156           | 2.60       | 2.32      |
| 158           | 2.56       | 2.48      |
| 160           | 2.44       | 2.28      |
| 162           | 2.28       | 2.28      |
| 164           | 2.28       | 2.40      |
| 166           | 2.32       | 2.40      |
| 168           | 2.76       | 2.40      |
| 170           | 2.76       | 2.40      |
| 172           | 2.72       | 2.32      |
| 174           | 2.60       | 2.40      |
| 176           | 2.72       | 2.88      |
| 178           | 2.84       | 2.84      |
| 180           | 3.00       | 3.00      |
| 182           | 2.88       | 3.00      |
| 184           | 2.88       | 2.96      |
| 186           | 2.88       | 2.88      |
| 188           | 2.80       | 2.76      |
| 190           | 2.72       | 2.76      |
|               |            |           |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.50  |
| <b>Standard Deviation:</b>       | 0.22  |
| <b>Coefficient of Variation:</b> | 8.89% |
| <b>X<sub>12</sub></b>            | 2.40  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.63  |
| <b>Standard Deviation:</b>       | 0.24  |
| <b>Coefficient of Variation:</b> | 9.06% |
| <b>X<sub>12</sub></b>            | 2.32  |

**SN:** 1920      **Surveyed by:** M. Brown      **Page:** 1  
**District:** Culpeper (7)      R. Weyers      **of:** 1  
**County:** Orange      A. Ramniceanu  
**Date:** 7/15/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 9:50 AM  | 81                | 94                 | sunny    |
| <b>Finish:</b> | 11:00 AM | 82                | 109                | sunny    |

## Cover Depths

**Profometer:** 106988

**Profometer:** 106987

**Area #:** 1

**Area #:** 3

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| -12           |             | 2.08        |
| -8            | 1.80        | <b>1.60</b> |
| -4            | <b>1.44</b> | <b>1.60</b> |
| 0             | <b>1.16</b> | 1.68        |
| 4             | <b>1.64</b> | 1.80        |
| 8             | 1.72        | 2.00        |
| 12            | 1.88        | 2.00        |
| 16            | 1.80        | 2.04        |
| 20            | 1.84        | 2.12        |
| 24            | 1.76        | 2.28        |
| 28            | 1.72        | 2.04        |
| 32            | 1.76        | 2.00        |
| 36            | 1.84        | 2.00        |
| 40            | 1.84        | 2.24        |
| 44            | 1.84        | 2.28        |
| 48            | 1.76        | 2.32        |
| 52            | 1.68        | 2.24        |
| 56            | 1.84        | 2.00        |
| 60            | 1.96        | 2.36        |
| 64            | 2.04        | 2.64        |
| 68            | 2.36        |             |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 1.93   |
| <b>Standard Deviation:</b>       | 0.28   |
| <b>Coefficient of Variation:</b> | 14.67% |
| <b>X<sub>12</sub></b>            | 1.67   |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 144           |             | 2.64        |
| 148           | 2.76        | 2.20        |
| 152           | 2.24        | <b>1.80</b> |
| 156           | 1.92        | 1.84        |
| 160           | 1.84        | 1.88        |
| 164           | 1.88        | 2.00        |
| 168           | 2.12        | 2.20        |
| 172           | 2.04        | 2.20        |
| 176           | 2.00        | 2.12        |
| 180           | 1.84        | 1.92        |
| 184           | 1.92        | <b>1.56</b> |
| 188           | <b>1.80</b> | <b>1.76</b> |
| 192           | <b>1.80</b> | <b>1.76</b> |
| 196           | 2.00        | 1.96        |
| 200           | 2.20        | 2.12        |
| 204           | 2.08        | 2.28        |
| 208           | 2.48        | 2.40        |
| 212           | 2.40        | 2.24        |
| 216           | 2.40        | 2.20        |
| 220           | 2.40        | 2.40        |
| 224           | 2.48        |             |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.10   |
| <b>Standard Deviation:</b>       | 0.27   |
| <b>Coefficient of Variation:</b> | 12.82% |
| <b>X<sub>12</sub></b>            | 1.80   |

**SN:** 1019      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Staunton (8)      W. Keller      **of:** 2  
**County:** Rockbridge      A. Ramniceanu  
**Date:** 7/22/2003

|                |              |                  |                  |                               |
|----------------|--------------|------------------|------------------|-------------------------------|
|                | <b>Time:</b> | <b>Temp (°F)</b> | <b>Temp (°F)</b> |                               |
| <b>Start:</b>  | 11:20 AM     | <b>Air:</b> 82   | <b>Deck:</b> 105 | <b>Weather:</b> partly cloudy |
| <b>Finish:</b> | 12:22 PM     | 84               | 108              | sunny                         |

### Cover Depths

**Profometer:** 106988

**Profometer:** 106988

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 0             |             | 2.68        |
| 4             | 2.40        | 2.60        |
| 8             | 2.36        | 2.56        |
| 12            | 2.40        | 2.72        |
| 16            | 2.64        | 2.68        |
| 20            | 2.56        | 2.64        |
| 24            | <b>2.26</b> | <b>2.28</b> |
| 28            | <b>2.20</b> | 2.40        |
| 32            | <b>2.32</b> | 2.64        |
| 36            | 2.48        | 2.72        |
| 40            | 2.48        | 2.72        |
| 44            | 2.60        | 2.56        |
| 48            | 2.72        | 2.64        |
| 52            | 2.36        |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |

| Distance (ft) | Right (in)  | Left (in) |
|---------------|-------------|-----------|
| 52            |             | 2.40      |
| 56            | <b>2.28</b> | 2.40      |
| 60            | <b>2.20</b> | 2.64      |
| 64            | <b>2.28</b> | 2.36      |
| 68            | 2.44        | 2.56      |
| 72            | 2.40        | 2.56      |
| 76            | 2.72        | 2.88      |
| 80            | 2.60        | 2.60      |
| 84            | 2.48        | 2.84      |
| 88            | 2.48        | 2.64      |
| 92            | 2.40        | 2.60      |
| 96            | 2.40        | 2.60      |
| 100           | 2.68        |           |
|               |             |           |
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|               |             |           |
|               |             |           |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.52  |
| <b>Standard Deviation:</b>       | 0.16  |
| <b>Coefficient of Variation:</b> | 6.39% |
| <b>X<sub>12</sub></b>            | 2.32  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.52  |
| <b>Standard Deviation:</b>       | 0.17  |
| <b>Coefficient of Variation:</b> | 6.83% |
| <b>X<sub>12</sub></b>            | 2.34  |

**SN:** 1019      **Surveyed by:** R. Weyers      **Page:** 2  
**District:** Staunton (8)      W. Keller      **of:** 2  
**County:** Rockbridge      A. Ramniceanu  
**Date:** 7/22/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|----------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 11:20 AM | 82                | 105                | partly cloudy |
| <b>Finish:</b> | 12:22 PM | 84                | 108                | sunny         |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 3

**Area #:** 4

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 100           |             | 2.76        |
| 104           | 2.80        | 3.20        |
| 108           | 3.04        | 3.16        |
| 112           | 2.56        | 2.84        |
| 116           | 2.88        | 2.44        |
| 120           | 2.40        | 2.72        |
| 124           | 2.32        | <b>2.24</b> |
| 128           | 2.32        | 2.40        |
| 132           | <b>2.24</b> | 2.40        |
| 136           | 2.32        | 2.32        |
| 140           | 2.32        | 2.72        |
| 144           | <b>2.28</b> | 2.80        |
| 148           | <b>2.28</b> | 2.76        |
| 152           | <b>2.28</b> | 2.80        |
| 156           | <b>2.28</b> |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |

| Distance (ft) | Right (in)  | Left (in) |
|---------------|-------------|-----------|
| 156           |             | 2.88      |
| 160           | 2.24        | 2.80      |
| 164           | <b>2.08</b> | 2.64      |
| 168           | 2.32        | 2.56      |
| 172           | <b>2.12</b> | 2.32      |
| 176           | 2.24        | 2.60      |
| 180           | 2.48        | 2.56      |
| 184           | 2.20        | 2.36      |
| 188           | 2.44        | 2.40      |
| 192           | <b>2.04</b> | 2.16      |
| 196           | 2.40        | 2.32      |
| 200           | 2.24        | 2.16      |
| 204           | 2.52        |           |
|               |             |           |
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|               |             |           |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.57   |
| <b>Standard Deviation:</b>       | 0.30   |
| <b>Coefficient of Variation:</b> | 11.57% |
| <b>X<sub>12</sub></b>            | 2.28   |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.38  |
| <b>Standard Deviation:</b>       | 0.22  |
| <b>Coefficient of Variation:</b> | 9.25% |
| <b>X<sub>12</sub></b>            | 2.15  |

**SN:** 1133      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Staunton (8)      M. Brown      **of:** 2  
**County:** Alleghany      A. Ramniceanu  
**Date:** 7/24/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|----------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 9:15 AM  | 71                | 72                 | partly cloudy |
| <b>Finish:</b> | 10:00 AM | 75                | 83                 | sunny         |

## Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in) |
|---------------|-------------|-----------|
| -16           |             | 2.68      |
| -12           | 2.96        | 2.96      |
| -8            | 2.96        | 2.92      |
| -4            | 2.88        | 2.80      |
| 0             | 2.64        | 2.68      |
| 4             | 2.72        | 2.94      |
| 8             | 2.80        | 2.76      |
| 12            | <b>2.52</b> | 2.60      |
| 16            | <b>2.56</b> | 2.60      |
| 20            | 2.64        | 2.76      |
| 24            | <b>2.56</b> |           |
|               |             |           |
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|               |             |           |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 24            |             | <b>2.52</b> |
| 28            | <b>2.40</b> | 2.60        |
| 32            | 2.72        | 2.80        |
| 36            | 2.76        | 2.80        |
| 40            | 2.76        | 2.76        |
| 44            | 2.80        | 2.76        |
| 48            | 2.80        | 2.92        |
| 52            | 2.96        | 2.80        |
| 56            | 2.72        | 2.64        |
| 60            | 2.80        | 2.68        |
| 64            | 2.96        | 2.72        |
| 68            | 2.88        | 2.64        |
| 72            | 2.92        | 2.72        |
| 76            | <b>2.60</b> | 2.76        |
| 80            | 2.72        | 2.72        |
| 84            | 2.72        | <b>2.60</b> |
| 88            | <b>2.60</b> |             |
|               |             |             |
|               |             |             |
|               |             |             |
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.75  |
| <b>Standard Deviation:</b>       | 0.15  |
| <b>Coefficient of Variation:</b> | 5.44% |
| <b>X<sub>12</sub></b>            | 2.57  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.74  |
| <b>Standard Deviation:</b>       | 0.12  |
| <b>Coefficient of Variation:</b> | 4.52% |
| <b>X<sub>12</sub></b>            | 2.60  |

**SN:** 1133      **Surveyed by:** R. Weyers      **Page:** 2  
**District:** Staunton (8)      M. Brown      **of:** 2  
**County:** Alleghany      A. Ramniceanu  
**Date:** 7/24/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|----------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 9:15 AM  | 71                | 72                 | partly cloudy |
| <b>Finish:</b> | 10:00 AM | 75                | 83                 | sunny         |

### Cover Depths

**Profometer:** 106988

**Profometer:** \_\_\_\_\_

**Area #:** 3

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 88            |            | 2.72      |
| 92            | 2.84       | 2.96      |
| 96            | 2.92       | 2.88      |
| 100           | 2.84       | 2.72      |
| 104           | 2.76       | 2.68      |
| 108           | 2.40       | 2.60      |
| 112           | 2.40       | 2.56      |
| 116           | 2.40       | 2.40      |
| 120           | 2.28       | 2.48      |
| 124           | 2.60       | 2.76      |
| 128           | 2.64       | 2.76      |
| 132           | 2.44       | 2.44      |
| 136           | 2.40       |           |
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| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.62  |
| <b>Standard Deviation:</b>       | 0.20  |
| <b>Coefficient of Variation:</b> | 7.55% |
| <b>X<sub>12</sub></b>            | 2.40  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1014      **Surveyed by:** A. Ramniceanu      **Page:** 1  
**District:** N. Virginia (9)      **of:** 1  
**County:** Loudoun  
**Date:** 6/18/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 9:40 AM  | 63                | 65                 | cloudy   |
| <b>Finish:</b> | 12:00 AM | 68                | 65                 | cloudy   |

### Cover Depths

**Profometer:** 106988

**Profometer:** \_\_\_\_\_

**Area #:** 2

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 64            | 1.96        | <b>1.72</b> |
| 68            | 2.08        | 2.08        |
| 70            | 2.00        | 2.24        |
| 72            | 2.04        | 2.08        |
| 76            | 2.00        | 1.96        |
| 80            | 2.00        | <b>1.76</b> |
| 82            | 2.00        | <b>1.80</b> |
| 84            | 1.96        | 1.96        |
| 88            | 2.08        | 1.84        |
| 92            | <b>1.80</b> | 1.88        |
| 94            | <b>1.72</b> | <b>1.80</b> |
| 96            | 1.84        | 1.96        |
| 100           | 2.04        | 2.12        |
| 104           | 2.16        | 2.20        |
| 106           | 2.04        | 2.16        |
| 108           | 2.04        | 2.04        |
| 112           | 2.00        | 1.92        |
| 116           | 2.00        | 1.96        |
| 120           | 2.24        | 1.96        |
| 124           | 1.84        | <b>1.64</b> |
|               |             |             |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
|               |            |           |
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|               |            |           |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 1.97  |
| <b>Standard Deviation:</b>       | 0.14  |
| <b>Coefficient of Variation:</b> | 7.25% |
| <b>X<sub>12</sub></b>            | 1.80  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1031      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** N. Virginia (9)      M. Brown      **of:** 1  
**County:** Loudoun  
**Date:** 7/10/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 10:00 AM | 69                | 74                 | overcast |
| <b>Finish:</b> | 11:30 AM | 69                | 76                 | overcast |

## Cover Depths

**Profometer:** 106988

**Profometer:** 106988

**Area #:** 2

**Area #:** 3

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 64            |             | 2.40        |
| 68            | 1.96        | 2.24        |
| 72            | 1.80        | 2.00        |
| 76            | <b>1.72</b> | 1.88        |
| 80            | 1.76        | 2.00        |
| 82            | 1.88        | 1.92        |
| 84            | 1.92        | <b>1.72</b> |
| 88            | 1.92        | 1.76        |
| 92            | 1.92        | 2.12        |
| 94            | 1.88        | 2.00        |
| 96            | 1.84        | 2.08        |
| 100           | <b>1.68</b> | 2.04        |
| 104           | <b>1.64</b> | 2.00        |
| 108           | <b>1.60</b> | 2.16        |
| 112           | 1.80        | 2.34        |
| 116           | 2.04        | 2.08        |
| 118           | 2.20        | 2.36        |
| 120           | 2.16        | 2.40        |
| 124           | 2.08        | 2.28        |
| 128           | 1.76        | 1.76        |
| 132           | <b>1.64</b> |             |
|               |             |             |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 132           |             | 1.64        |
| 136           | 1.88        | 1.76        |
| 140           | 1.88        | <b>1.60</b> |
| 144           | 1.66        | 1.64        |
| 148           | 1.64        | 1.68        |
| 152           | <b>1.56</b> | <b>1.60</b> |
| 156           | <b>1.56</b> | <b>1.48</b> |
| 160           | <b>1.60</b> | <b>1.44</b> |
| 164           | 1.68        | 1.68        |
| 168           | 1.72        | 1.92        |
| 172           | 1.92        | 2.12        |
| 176           | 2.36        | 2.16        |
| 180           | 2.16        | 2.32        |
| 182           |             | 1.96        |
| 184           | 2.04        | 2.24        |
| 188           | 2.08        | 2.20        |
| 192           | 2.16        | 2.16        |
| 196           | 2.00        | 2.00        |
| 200           | 1.88        | 1.84        |
| 204           | 1.68        | 2.00        |
| 208           | 1.72        |             |
| 212           | 1.80        |             |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 1.97   |
| <b>Standard Deviation:</b>       | 0.22   |
| <b>Coefficient of Variation:</b> | 11.14% |
| <b>X<sub>12</sub></b>            | 1.72   |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 1.86   |
| <b>Standard Deviation:</b>       | 0.25   |
| <b>Coefficient of Variation:</b> | 13.27% |
| <b>X<sub>12</sub></b>            | 1.60   |

**SN:** 1098      **Surveyed by:** M. Brown      **Page:** 1  
**District:** N. Virginia (9)      **of:** 1  
**County:** Arlington  
**Date:** 6/3/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:          |
|----------------|----------|-------------------|--------------------|-------------------|
| <b>Start:</b>  | 9:50 AM  | 70                | 65                 | Overcast, misting |
| <b>Finish:</b> | 10:30 AM | 70                | 65                 | Overcast, misting |

### Cover Depths

**Profometer:** VT 00206244

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 4             | 2.76       | 2.68      |
| 8             | 2.60       | 2.60      |
| 12            | 2.60       | 2.40      |
| 16            | 2.40       | 2.92      |
| 20            | 2.40       | 2.40      |
| 24            | 2.28       | 2.24      |
| 28            | 2.32       | 2.12      |
| 32            | 2.24       | 1.96      |
| 36            | 2.04       | 1.96      |
| 40            | 2.20       | 1.88      |
| 44            | 2.16       | 1.80      |
| 48            | 2.28       | 2.16      |
| 52            | 2.24       | 2.24      |
| 56            | 2.28       | 2.16      |
| 60            | 2.28       | 2.24      |
| 64            | 2.40       | 2.24      |
| 68            | 2.36       | 1.80      |
| 72            | 2.40       | 2.16      |
| 76            | 2.40       | 1.96      |
| 80            | 2.40       | 1.96      |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 100           | 2.44       | 2.12      |
| 104           | 2.44       | 2.44      |
| 108           | 2.48       | 2.28      |
| 112           | 2.32       | 2.12      |
| 116           | 2.28       | 2.24      |
| 120           | 2.28       | 2.12      |
| 124           | 2.04       | 1.96      |
| 128           | 2.40       | 2.20      |
| 132           | 1.84       | 1.96      |
| 136           | 2.00       | 2.00      |
| 140           | 2.36       | 2.16      |
| 144           | 2.40       | 1.80      |
| 148           | 2.28       | 2.20      |
| 152           | 2.24       | 1.96      |
| 156           | 2.28       | 2.08      |
| 160           | 2.24       | 2.00      |
| 164           | 2.00       | 2.08      |
| 168           | 2.36       | 2.20      |
| 172           | 2.40       | 2.16      |
| 176           | 2.36       | 2.24      |
|               |            |           |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.27  |
| <b>Standard Deviation:</b>       | 0.25  |
| <b>Coefficient of Variation:</b> | 10.9% |
| <b>X<sub>12</sub></b>            | 1.96  |

|                                  |      |
|----------------------------------|------|
| <b>Average</b>                   | 2.19 |
| <b>Standard Deviation:</b>       | 0.18 |
| <b>Coefficient of Variation:</b> | 8.0% |
| <b>X<sub>12</sub></b>            | 2.01 |

**SN:** 1139      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** N. Virginia (9)      **of:** 1  
**County:** Loudoun  
**Date:** 7/9/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather: |
|----------------|----------|-------------------|--------------------|----------|
| <b>Start:</b>  | 9:35 AM  | 79                | 85                 | cloudy   |
| <b>Finish:</b> | 10:50 AM | 86                | 108                | sunny    |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| -8            |            | 2.40      |
| -4            | 2.20       | 2.36      |
| 0             | 2.40       | 2.56      |
| 4             | 2.36       | 2.64      |
| 8             | 2.28       | 2.40      |
| 12            | 2.00       | 2.40      |
| 16            | 1.96       | 2.28      |
| 18            | 1.88       |           |
| 20            | 1.80       | 2.28      |
| 22            | 1.88       | 2.24      |
| 24            | 1.88       | 2.24      |
| 28            | 1.92       | 2.16      |
| 32            | 1.80       | 2.20      |
| 36            | 1.88       | 2.20      |
| 40            | 1.76       | 2.36      |
| 44            | 1.80       | 2.40      |
| 48            | 2.00       | 2.40      |
| 52            | 2.80       | 2.40      |
| 54            | 2.48       | 2.72      |
| 56            | 2.76       | 2.48      |
| 60            | 2.64       | 2.80      |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 64            |            | 3.64      |
| 68            | 2.40       | 2.72      |
| 70            | 2.44       |           |
| 72            | 2.76       | 2.40      |
| 76            | 2.40       | 2.72      |
| 80            | 2.36       | 2.64      |
| 84            | 2.28       | 2.64      |
| 88            | 2.28       | 2.88      |
| 92            | 2.28       | 2.72      |
| 96            | 2.76       | 2.36      |
| 98            | 2.32       | 2.80      |
| 100           | 2.20       | 2.64      |
| 104           | 2.12       | 2.68      |
| 108           | 2.24       | 2.72      |
| 112           | 2.44       | 2.80      |
| 114           | 2.60       | 3.00      |
| 116           | 2.40       | 2.80      |
| 120           | 2.60       | 2.84      |
| 124           | 2.64       | 2.40      |
| 128           | 2.48       | 2.76      |
| 132           | 2.72       |           |

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.26   |
| <b>Standard Deviation:</b>       | 0.30   |
| <b>Coefficient of Variation:</b> | 13.28% |
| <b>X<sub>12</sub></b>            | 1.88   |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.59   |
| <b>Standard Deviation:</b>       | 0.28   |
| <b>Coefficient of Variation:</b> | 10.75% |
| <b>X<sub>12</sub></b>            | 2.28   |

0.45 <sup>w</sup>/<sub>c+p</sub> Bridge Decks

Page: 1  
of: 2

## Cover Depths

Profometer: 106987

**Area #:** 2

[illegible]

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.06   |
| <b>Standard Deviation:</b>       | 0.46   |
| <b>Coefficient of Variation:</b> | 22.18% |
| <b><math>X_{12}</math></b>       | 1.72   |

Page: 2  
of: 2

## Cover Depths

Profometer: \_\_\_\_\_

Area #:

[illegible]

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b><math>X_{12}</math></b>       |  |

**SN:** 2815      **Surveyed by:** M. Brown      **Page:** 1  
**District:** Bristol      Andre Ram      **of:** 1  
**County:** Wytheville      R. G. Weyers  
**Date:** 9/17/2003

|                | Time: | Air: | Deck: | Weather: |
|----------------|-------|------|-------|----------|
| <b>Start:</b>  | 10:45 | 62   | 67    | Sunny    |
| <b>Finish:</b> | 12:50 | 73   | 83    | Sunny    |

### Cover Depths

**Profometer:** 106987

| <b>Area #:</b> Span 1 |                   |                  |
|-----------------------|-------------------|------------------|
|                       | 14.5              | 20 ft            |
| <b>Distance (ft)</b>  | <b>Right (in)</b> | <b>Left (in)</b> |
| 24                    | 2.40              | -                |
| 28                    | 2.36              | -                |
| 32                    | 2.36              | 2.40             |
| 36                    | 2.28              | 2.28             |
| 40                    | 2.28              | 2.40             |
| 44                    | 2.28              | 2.24             |
| 48                    | 2.36              | 2.20             |
| 52                    | 2.40              | 2.32             |
| 56                    | 2.36              | 2.36             |
| 60                    | 2.40              | 2.24             |
| 64                    | 2.40              | 2.40             |
| 68                    | 2.40              | 2.40             |
| 72                    | 2.40              | 2.60             |
| 76                    | 2.44              | 2.32             |
| 80                    | 2.60              | 2.60             |
| 84                    |                   | 2.64             |
| 88                    |                   | 2.80             |

| <b>Area #:</b> Span 2 |                   |                  |
|-----------------------|-------------------|------------------|
| <b>Distance (ft)</b>  | <b>Right (in)</b> | <b>Left (in)</b> |
| 84                    | -                 |                  |
| 88                    | 2.88              |                  |
| 92                    | 2.60              | 2.68             |
| 96                    | 2.60              | 2.88             |
| 100                   | 2.76              | 2.88             |
| 104                   | 2.40              | 2.40             |
| 108                   | 2.36              | 2.40             |
| 112                   | 2.16              | 2.60             |
| 116                   | 2.16              | 2.44             |
| 120                   | 2.08              | 2.32             |
| 124                   | 2.40              | 2.28             |
| 128                   | 2.72              | 2.24             |
| 132                   | 2.20              | 2.00             |
| 136                   | 2.40              | 2.24             |
| 140                   | 2.20              | 2.16             |
| 144                   | 2.32              | 2.16             |
| 148                   | 2.60              | 2.32             |
| 152                   | 2.40              | 2.56             |
| 156                   | 2.84              | 2.76             |
| 160                   | 2.72              | 2.40             |
| 164                   | 2.60              | 2.60             |
| 168                   | 2.40              | 2.48             |
| 172                   | 2.68              | 2.52             |
| 176                   | -                 | 2.68             |

|                                  |  |
|----------------------------------|--|
| <b>Average:</b>                  |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

Page: 2  
of: 2

## Cover Depths

[illegible]

|                           |  |
|---------------------------|--|
| Average                   |  |
| Standard Deviation:       |  |
| Coefficient of Variation: |  |
| $X_{12}$                  |  |

**SN:** 2819      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Bristol (1)      D. Mokarem      **of:** 2  
**County:** Russell  
**Date:** 8/21/2003

|                | Time:    | Air: | Deck: | Weather:     |
|----------------|----------|------|-------|--------------|
| <b>Start:</b>  | 9:00 AM  | 68   | 74    | cloudy       |
| <b>Finish:</b> | 12:30 PM | 73   | 98    | partly sunny |

### Cover Depths

**RW P Profometer:** 106988

**LWP Profometer:** 106987

**Area #:** 1(0-80')

**Area #:** 2(80'-160')

| Distance (ft) | Right (in)  | Left (in) |
|---------------|-------------|-----------|
| 4             | 3.22        | 2.92      |
| 8             | 3.28        | 2.92      |
| 12            | 3.16        | 3.00      |
| 16            | 3.04        | 3.12      |
| 20            | 2.76        | 3.00      |
| 24            | 2.92        | 3.24      |
| 28            | 2.92        | 2.96      |
| 32            | 3.04        | 2.88      |
| 36            | 2.76        | 3.04      |
| 40            | <b>2.60</b> | 2.92      |
| 44            | <b>2.64</b> | 2.72      |
| 48            | <b>2.64</b> | 2.76      |
| 52            | <b>2.64</b> | 2.80      |
| 56            | <b>2.64</b> | 2.80      |
| 60            | <b>2.56</b> | 2.80      |
| 64            | 2.72        | 2.88      |
| 68            | 2.72        | 2.96      |
| 72            | 2.72        | 3.12      |
| 76            | 2.68        | 3.04      |
| 80            | <b>2.40</b> | 2.76      |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 84            | 2.92        | 3.00        |
| 88            | 2.80        | 2.80        |
| 92            | 2.64        | 2.72        |
| 96            | 2.72        | 2.60        |
| 100           | 2.44        | <b>2.40</b> |
| 104           | 2.60        | 2.56        |
| 108           | 2.72        | 2.56        |
| 112           | 2.76        | 2.76        |
| 116           | <b>2.40</b> | 2.92        |
| 120           | 2.64        | 2.80        |
| 124           | 2.44        | 2.56        |
| 128           | <b>2.28</b> | 2.44        |
| 132           | <b>2.28</b> | <b>2.40</b> |
| 136           | 2.56        | 2.44        |
| 140           | <b>2.40</b> | 2.76        |
| 144           | 2.64        | 2.76        |
| 148           | <b>2.40</b> | 2.64        |
| 152           | 2.48        | 2.64        |
| 156           | 2.44        | 2.76        |
| 160           | 2.56        | 2.72        |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.87  |
| <b>Standard Deviation:</b>       | 0.20  |
| <b>Coefficient of Variation:</b> | 7.08% |
| <b>X<sub>12</sub></b>            | 2.64  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.61  |
| <b>Standard Deviation:</b>       | 0.18  |
| <b>Coefficient of Variation:</b> | 6.81% |
| <b>X<sub>12</sub></b>            | 2.40  |

**SN:** 2819      **Surveyed by:** R. Weyers      **Page:** 2  
**District:** Bristol (1)      D. Mokarem      **of:** 2  
**County:** Russell  
**Date:** 8/21/2003

|                | Time:    | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:     |
|----------------|----------|-------------------|--------------------|--------------|
| <b>Start:</b>  | 9:00 AM  | 68                | 74                 | cloudy       |
| <b>Finish:</b> | 12:30 PM | 73                | 98                 | partly sunny |

### Cover Depths

**Profometer:** 106987

**Profometer:** \_\_\_\_\_

**Area #:** 3(160'-232')

**Area #:** \_\_\_\_\_

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 164           | 2.36       | 2.76      |
| 168           | 2.36       | 2.68      |
| 172           | 2.28       | 2.60      |
| 176           | 2.36       | 2.52      |
| 180           | 2.40       | 2.56      |
| 184           | 2.36       | 2.60      |
| 188           | 2.46       | 2.48      |
| 192           | 2.44       | 2.32      |
| 196           | 2.40       | 2.40      |
| 200           | 2.40       | 2.40      |
| 204           | 2.40       | 2.40      |
| 208           | 2.40       | 2.40      |
| 212           | 2.44       | 2.40      |
| 216           | 2.40       | 2.40      |
| 220           | 2.40       | 2.40      |
| 224           | 2.40       | 2.40      |
| 228           | 2.56       | 2.36      |
|               |            |           |
|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
|               |            |           |
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.44  |
| <b>Standard Deviation:</b>       | 0.10  |
| <b>Coefficient of Variation:</b> | 4.20% |
| <b>X<sub>12</sub></b>            | 2.36  |

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b>X<sub>12</sub></b>            |  |

**SN:** 1021      **Surveyed by:** M. Brown      **Page:** 1  
**District:** Salem (2)      A. Ramniceanu      **of:** 1  
**County:** Franklin  
**Date:** 7/31/2003

|                | Time:    | Air: | Deck: | Weather: |
|----------------|----------|------|-------|----------|
| <b>Start:</b>  | 9:20 AM  | 68   | 69    | overcast |
| <b>Finish:</b> | 10:15 AM | 67   | 69    | overcast |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 12            | 2.80        |             |
| 16            | 2.56        | 2.52        |
| 20            | 2.60        | 2.56        |
| 24            | 2.64        | 2.60        |
| 28            | 2.60        | 2.52        |
| 32            | <b>2.36</b> | 2.60        |
| 36            | 2.40        | 2.52        |
| 40            | 2.40        | 2.48        |
| 44            | 2.40        | <b>2.36</b> |
| 48            | 2.60        | 2.40        |
| 52            | 2.56        | 2.56        |
| 56            | <b>2.28</b> | 2.64        |
| 60            |             | 2.56        |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |
|               |             |             |

| Distance (ft) | Right (in)  | Left (in)   |
|---------------|-------------|-------------|
| 60            | 2.44        |             |
| 64            | 2.32        | 2.36        |
| 68            | 2.40        | 2.56        |
| 72            | 2.32        | 2.56        |
| 76            | <b>2.20</b> | 2.36        |
| 80            | 2.36        | 2.32        |
| 84            | <b>1.92</b> | 2.40        |
| 88            | <b>2.04</b> | <b>2.20</b> |
| 92            | <b>2.20</b> | 2.24        |
| 96            | 2.36        | 2.40        |
| 100           | 2.38        | 2.44        |
| 104           | 2.36        | 2.56        |
| 108           |             | 2.56        |
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.52  |
| <b>Standard Deviation:</b>       | 0.12  |
| <b>Coefficient of Variation:</b> | 4.64% |
| <b>X<sub>12</sub></b>            | 2.39  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.34  |
| <b>Standard Deviation:</b>       | 0.16  |
| <b>Coefficient of Variation:</b> | 6.68% |
| <b>X<sub>12</sub></b>            | 2.20  |

|                  |               |                     |               |              |   |
|------------------|---------------|---------------------|---------------|--------------|---|
| <b>SN:</b>       | 1000          | <b>Surveyed by:</b> | R. Weyers     | <b>Page:</b> | 1 |
| <b>District:</b> | Lynchburg (3) |                     | M. Brown      | <b>of:</b>   | 1 |
| <b>County:</b>   | Campbell      |                     | A. Ramniceanu |              |   |
| <b>Date:</b>     | 7/30/2003     |                     |               |              |   |

  

|                |                  |                  |                 |
|----------------|------------------|------------------|-----------------|
|                | <b>Temp (°F)</b> | <b>Temp (°F)</b> |                 |
| <b>Time:</b>   | <b>Air:</b>      | <b>Deck:</b>     | <b>Weather:</b> |
| <b>Start:</b>  | 8:50 AM          | 64               | 68 cloudy       |
| <b>Finish:</b> | 10:00 AM         | 66               | 71 cloudy       |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** 1 (0 - 48')

**Area #:** 2 (52' - 96')

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 0             | 2.24       | 2.24      |
| 4             | 1.80       | 1.80      |
| 8             | 1.76       | 1.68      |
| 12            | 1.88       | 1.84      |
| 16            | 2.00       | 2.00      |
| 20            | 1.92       | 1.88      |
| 24            | 1.88       | 1.88      |
| 28            | 1.88       | 1.80      |
| 32            | 1.88       | 2.00      |
| 36            | 1.68       | 1.92      |
| 40            | 1.92       | 2.00      |
| 44            | 2.00       | 1.92      |
| 48            | 1.84       | 2.12      |
|               |            |           |
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|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 52            | 2.12       | 2.20      |
| 56            | 1.96       | 2.24      |
| 60            | 2.00       | 2.24      |
| 64            | 2.20       | 2.28      |
| 68            | 2.36       | 2.40      |
| 72            | 2.28       | 2.36      |
| 76            | 2.24       | 2.28      |
| 80            | 2.12       | 2.16      |
| 84            | 2.00       | 2.16      |
| 88            | 2.12       | 2.12      |
| 92            | 2.24       | 2.28      |
| 96            | 2.36       | 2.40      |
|               |            |           |
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 1.91  |
| <b>Standard Deviation:</b>       | 0.14  |
| <b>Coefficient of Variation:</b> | 7.26% |
| <b>X<sub>12</sub></b>            | 1.80  |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.21  |
| <b>Standard Deviation:</b>       | 0.12  |
| <b>Coefficient of Variation:</b> | 5.58% |
| <b>X<sub>12</sub></b>            | 2.09  |

**SN:** 1017      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** Lynchburg (3)      M. Brown      **of:** 1  
**County:** Campbell  
**Date:** 7/30/2003

|                | Time:    | Air: | Deck: | Weather: |
|----------------|----------|------|-------|----------|
| <b>Start:</b>  | 12:30 PM | 67   | 71    | cloudy   |
| <b>Finish:</b> | 1:15 PM  | 69   | 73    | cloudy   |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** 1 (0 - 52')

**Area #:** 2 (52' - 96')

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 4             | 2.40       | 2.40      |
| 8             | 2.32       | 2.36      |
| 12            | 2.20       | 2.24      |
| 16            | 2.20       | 2.08      |
| 20            | 2.08       | 2.16      |
| 24            | 2.16       | 2.20      |
| 28            | 2.20       | 2.28      |
| 32            | 2.20       | 2.24      |
| 36            | 2.12       | 2.08      |
| 40            | 2.04       | 1.96      |
| 44            | 1.72       | 1.60      |
| 48            | 2.04       | 1.80      |
| 52            | 2.12       | 1.92      |
|               |            |           |
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|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.12  |
| <b>Standard Deviation:</b>       | 0.20  |
| <b>Coefficient of Variation:</b> | 9.24% |
| <b>X<sub>12</sub></b>            | 1.92  |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 56            | 1.96       | 1.92      |
| 60            | 2.00       | 1.92      |
| 64            | 1.88       | 1.80      |
| 68            | 1.88       | 1.92      |
| 72            | 2.12       | 2.12      |
| 76            | 2.12       | 2.04      |
| 80            | 2.40       | 2.28      |
| 84            | 2.40       | 2.28      |
| 88            | 2.36       | 2.24      |
| 92            | 2.40       | 2.28      |
| 96            | 2.40       | 2.40      |
|               |            |           |
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|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.14  |
| <b>Standard Deviation:</b>       | 0.21  |
| <b>Coefficient of Variation:</b> | 9.74% |
| <b>X<sub>12</sub></b>            | 1.90  |

Page: 1  
of: 1

## Cover Depths

**Area #:** \_\_\_\_\_

[illegible]

|                                  |  |
|----------------------------------|--|
| <b>Average</b>                   |  |
| <b>Standard Deviation:</b>       |  |
| <b>Coefficient of Variation:</b> |  |
| <b><math>X_{12}</math></b>       |  |

**SN:** 1002      **Surveyed by:** M. Brown      **Page:** 1  
**District:** Staunton (8)      **of:** 1  
**County:** Augusta  
**Date:** 7/16/2003

|                | Time:   | Temp (°F)<br>Air: | Temp (°F)<br>Deck: | Weather:      |
|----------------|---------|-------------------|--------------------|---------------|
| <b>Start:</b>  | 8:15 AM | 74                | 79                 | sunny         |
| <b>Finish:</b> | 9:05 AM | 81                | 88                 | partly cloudy |

### Cover Depths

**Profometer:** 106987

**Profometer:** 106987

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 4             | 2.40       | 2.32      |
| 8             | 2.40       | 2.56      |
| 12            | 2.88       | 2.52      |
| 16            | 2.40       | 2.52      |
| 20            | 2.56       | 2.60      |
| 24            | 2.54       | 2.60      |
| 28            | 2.56       | 2.44      |
| 32            | 2.40       | 2.48      |
| 36            | 2.32       | 2.28      |
| 40            | 2.16       | 2.00      |
| 44            | 2.00       | 1.76      |
| 48            | 2.00       | 1.80      |
| 52            | 1.88       | 1.64      |
| 56            | 1.96       | 1.64      |
| 60            | 2.04       | 1.72      |
| 64            | 2.24       | 1.88      |
| 68            | 2.36       | 2.12      |
|               |            |           |
|               |            |           |
|               |            |           |
|               |            |           |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 72            | 2.36       | 2.24      |
| 76            | 2.16       | 2.04      |
| 80            | 2.04       | 2.00      |
| 84            | 2.20       | 2.00      |
| 88            | 2.28       | 2.08      |
| 92            | 2.32       | 2.40      |
| 96            | 2.56       | 2.40      |
| 100           | 2.56       | 2.32      |
| 104           | 2.52       | 2.36      |
| 108           | 2.40       | 2.60      |
| 112           | 2.40       | 2.28      |
| 116           | 2.36       | 2.20      |
| 120           | 2.40       | 2.24      |
| 124           | 2.36       | 2.24      |
| 128           | 2.32       | 2.16      |
| 132           | 2.40       | 2.32      |
| 136           | 2.56       | 2.36      |
|               |            |           |
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|               |            |           |
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|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.23   |
| <b>Standard Deviation:</b>       | 0.32   |
| <b>Coefficient of Variation:</b> | 14.44% |
| <b>X<sub>12</sub></b>            | 1.80   |

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.31  |
| <b>Standard Deviation:</b>       | 0.16  |
| <b>Coefficient of Variation:</b> | 6.97% |
| <b>X<sub>12</sub></b>            | 2.08  |

Page: 1  
of: 2

## Cover Depths

Profometer: 106988

**Area #:** 2 (Northbound)

[illegible]

|                                  |       |
|----------------------------------|-------|
| <b>Average</b>                   | 2.43  |
| <b>Standard Deviation:</b>       | 0.19  |
| <b>Coefficient of Variation:</b> | 7.65% |
| <b><math>X_{12}</math></b>       | 2.29  |

|                  |                     |                     |                      |              |          |
|------------------|---------------------|---------------------|----------------------|--------------|----------|
| <b>SN:</b>       | <u>1042</u>         | <b>Surveyed by:</b> | <u>R. Weyers</u>     | <b>Page:</b> | <u>2</u> |
| <b>District:</b> | <u>Staunton (8)</u> |                     | <u>M. Brown</u>      | <b>of:</b>   | <u>2</u> |
| <b>County:</b>   | <u>Rockbridge</u>   |                     | <u>A. Ramniceanu</u> |              |          |
| <b>Date:</b>     | <u>7/23/2003</u>    |                     |                      |              |          |

|         | Temp (°F) | Temp (°F) |          |
|---------|-----------|-----------|----------|
|         | Air:      | Deck:     | Weather: |
| Start:  | 1:00 AM   | 84        | 99       |
| Finish: | 1:25 AM   | 84        | 102      |

## Cover Depths

Profometer: 106988

Profometer: 106987

**Area #:** 1 (Southbound)

**Area #:** 2 (Southbound)

[illegible]

|                                  |        |
|----------------------------------|--------|
| <b>Average:</b>                  | 2.51   |
| <b>Standard Deviation:</b>       | 0.70   |
| <b>Coefficient of Variation:</b> | 27.98% |
| <b>X<sub>12</sub></b>            | 1.96   |

[illegible]

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 1.98   |
| <b>Standard Deviation:</b>       | 0.26   |
| <b>Coefficient of Variation:</b> | 12.92% |
| <b>X<sub>12</sub></b>            | 1.70   |

**SN:** 1002      **Surveyed by:** R. Weyers      **Page:** 1  
**District:** N. Virginia (9)      **A. Ramniceanu**      **of:** 1  
**County:** Arlington  
**Date:** 7/8/2003

**Temp (°F)**      **Temp (°F)**  
**Time:**      **Air:**      **Deck:**      **Weather:**  
**Start:** 10:05 AM      76      82      cloudy  
**Finish:** 12:01 PM      85      100      partly cloudy

### Cover Depths

**Profometer:** 106987

**Profometer:** 106988

**Area #:** 1

**Area #:** 2

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 0             | 2.36       | 2.40      |
| 2             | 2.44       | 2.40      |
| 4             | 2.48       | 2.36      |
| 6             | 2.80       | 2.68      |
| 8             | 2.64       | 3.12      |
| 10            | 3.00       | 2.80      |
| 12            | 3.00       | 2.96      |
| 14            | 3.04       | 2.88      |
| 16            | 2.88       | 2.76      |
| 18            | 3.04       | 3.80      |
| 20            | 2.92       | 2.96      |
| 22            | 3.00       | 2.80      |
| 24            | 2.88       | 2.80      |
| 26            | 2.80       | 2.80      |
| 28            | 2.76       | 2.80      |
| 30            | 2.64       | 2.80      |
| 32            | 2.64       | 2.72      |
| 34            | 2.72       | 2.60      |
| 36            | 2.76       | 2.68      |
| 38            | 2.76       | 2.64      |
| 40            | 2.68       | 2.76      |

| Distance (ft) | Right (in) | Left (in) |
|---------------|------------|-----------|
| 48            |            | 2.76      |
| 52            |            | 2.20      |
| 56            | 1.88       | 1.88      |
| 60            | 2.24       | 1.96      |
| 64            | 2.40       | 2.32      |
| 68            | 2.84       | 2.52      |
| 72            | 2.88       | 2.60      |
| 76            | 3.16       | 2.80      |
| 80            | 3.00       | 2.64      |
| 84            | 2.80       | 2.40      |
| 88            | 2.72       | 2.40      |
| 92            | 2.56       | 2.40      |
| 96            | 2.32       | 2.28      |
| 100           | 2.04       | 1.84      |
| 104           | 2.08       | 2.00      |
| 108           | 2.36       | 2.20      |
| 110           | 2.24       | 2.16      |
| 112           | 2.40       | 2.20      |
| 114           | 2.28       | 2.24      |
| 116           | 2.60       | 2.56      |
| 120           | 2.76       |           |
| 124           | 3.00       |           |

|                                  |       |
|----------------------------------|-------|
| <b>Average:</b>                  | 2.78  |
| <b>Standard Deviation:</b>       | 0.25  |
| <b>Coefficient of Variation:</b> | 8.97% |
| <b>X<sub>12</sub></b>            | 2.48  |

|                                  |        |
|----------------------------------|--------|
| <b>Average</b>                   | 2.42   |
| <b>Standard Deviation:</b>       | 0.33   |
| <b>Coefficient of Variation:</b> | 13.74% |
| <b>X<sub>12</sub></b>            | 2.03   |

Page: 1  
of: 1

## Cover Depths

Profometer: \_\_\_\_\_

**Area #:**

[illegible]

|                           |  |
|---------------------------|--|
| Average                   |  |
| Standard Deviation:       |  |
| Coefficient of Variation: |  |
| $X_{12}$                  |  |