

# Materials Calculator

## in Cubic Yards

For calculating drain rock quantities at a 3" depth

| Linear Feet                     | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Width of treatment<br>18 inches | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 |
| 24 inches                       | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| 30 inches                       | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 |
| (5 feet)                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 60 inches                       | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 0.9 |

| Linear Feet                     | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Width of treatment<br>18 inches | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |
| 24 inches                       | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 |
| 30 inches                       | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| (5 feet)                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 60 inches                       | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 | 1.7 |

| Linear Feet                     | 37  | 38  | 39  | 40  | 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Width of treatment<br>18 inches | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 24 inches                       | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 30 inches                       | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 |
| (5 feet)                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 60 inches                       | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 |

Use this calculation sheet to determine minimum BMP drip line treatments or to determine the amount of drain rock needed for rock armoring in the five-foot non-combustible area. Measure the length of the eaves for drip line calculations or along the foundation or footings of building structures for fire defensible space calculations. When adding linear feet for fire defensible space, subtract 5 feet from inside corners and add 5 feet to outside corners of structures. Find this length on the calculation sheet and coordinate it with the width criteria. Drip line treatments must extend a minimum of 6" inside and 12" beyond the drip line of a single story roof (18" total), 18" of a two-story roof (24" total), and 24" of a three-story roof (30" total). Local fire defensible space requirements include a five-foot non-combustible soil surface treatment, such as turf or rock, around the perimeter of building structures.

$$(\text{Length in Feet} \times \text{Width in Feet} \times \text{Depth in Feet}) / 27 = \text{Cubic Yards}$$