

## Debris Management Quick Reference Guide

Q=HxCxVxBxS where:

Q= estimated quantity of debris

H= households (population divided by 3)

C= storm strength factor

B= business factor

S= precipitation factor

### Value of Factors

<b>C= Storm Factor</b>	<b>Value Assigned</b>
F0 tornado, 40-72 mph	2 cy
F1 tornado, 73-112 mph	8 cy
F2 tornado, 113-157 mph	26 cy
F3 tornado, 158-206 mph	50 cy
F4 and F5 tornado, 207-318 mph	80 cy

<b>V= Vegetation Cover Factor</b>	<b>Value Assigned</b>
Light	1.1
Medium	1.3
Heavy	1.5

<b>B= Commercial/Business Factor</b>	<b>Value Assigned</b>
Light	1.0
Medium	1.2
Heavy	1.3

<b>S=Precipitation</b>	<b>Value Assigned</b>
None to Light	1.0
Medium to Heavy	1.3

## Storm Strength Comparisons

Wind Speed	Storm Type
< 39 mph	Tropical depression
39-73 mph	Tropical storm
40-72 mph	F0 tornado (weak)
74-95 mph	Cat 1 hurricane
96-110 mph	Cat 2 hurricane
73-112 mph	F1 tornado (weak)
111-130 mph	Cat 3 hurricane
113-157 mph	F2 tornado (strong)
131-155 mph	Cat 4 hurricane
>155 mph	Cat 5 hurricane
158-206 mph	F3 tornado (strong)
207-260 mph	F4 tornado (violent)
261-318 mph	F5 tornado (violent)

### Debris categories

30 % clean woody

70 % mixed construction and demolition (C&D)

Of C&D:

42 % burnable but needs sorting

38% landfilled

15% metal

5% soil

## Debris and Storage Estimating Guide

### Step 1 – How Much?

1. Determine quantity
2. Use  $Q=H(C)(V)(B)(S)$
3. Use Volume/Quantity Reference Guide and Roadside Debris Table for specifics
4. Add numbers from Q, V/Q Guide and Roadside Table for total quantity

### Step 2 – Space required for storage?

1. Determine acreage needed for quantity of debris
2. Use 16,133 cy/ac
3. Total from Step 1, divided by 16,133 = storage area in acres

### Step 3 – Acreage needed for storage and operations?

1. Determine total acres needed for entire storage site
2. Includes buffer, roads, etc
3. Storage area from Step 2, multiplied by 1.66 = total area needed for site