

## Truck Certification Form

The Debris Monitoring contractor should measure every truck and trailer to be used in the debris removal operations. This should also include all city/county trucks and trailers. A truck certification form allows the monitor to identify the truck itself and its hauling capacity in a standardized manner. Knowing the truck hauling capacity is important because debris, specifically vegetative debris, is often hauled and billed by volume. The standard list of requirements includes:

- Size of hauling bed in cubic yards
- License plate number
- Truck identification number assigned by the owner
- Short physical description of the truck
- Photographs

Debris Monitors may need to be trained to measure truck capacities for certification purposes. Recertification of the hauling trucks on a random and periodic basis should be implemented for contract compliance and reimbursement considerations. A sample truck certification form is show in Figure A below. This information should be entered into a data base by the Data Entry staff.

TRUCK CERTIFICATION FORM			
General Information			
Applicant: _____		Monitor: _____	
Contractor: _____		Date: _____	
Measurement Location: _____		County: _____	
Declaration Number: _____			
Truck Information			
Make	Year	Color	License
_____	_____	_____	_____
Truck Measurements			
Performed By: _____		Date: _____	
Volume Calculated By: _____		Date: _____	
Both Checked by: _____		Date: _____	
Driver Information			
Name: _____			
Address: _____			
Phone Number: _____			
Owner Information			
Name: _____			
Address: _____			
Phone Number: _____			
<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>		<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	
Truck Identification		Truck Capacity	
<div style="border: 1px solid black; width: 250px; height: 100px; margin: 0 auto;"></div>			
Photo			
<small>(See reverse for calculation worksheet)</small>			

**Figure A. Truck Certification Form**

## **Truck Certification Form Calculation Instructions**

### INSTRUCTIONS TO TAKE THE NECESSARY DIMENSIONS OF CORNER WEDGE

(refer to Figure 1 on the next page):

“a”: Along the side of the pan, measure the distance from the point where the rounded part of the pan starts, to the front corner of the pan.

“b”: Equal to “a”

“c” and “d”: Along the side of the pan, mark the point where the rounded part of the pan starts and along the front of the pan, also mark the point where the rounded part of the pan ends. Run a string between the two points and measure the distance between them; half of that distance is “c” and half of the distance is “d” (“c” and “d” are equal).

“e”: Measure the distance from the mid-point of the string that was stretched from the side to the front of the pan in the previous step, to the rounded part of the pan.

### EXTRA TRAILER:

The volume calculations for the extra trailer would be simply length x width x height, if the extra trailer has a rectangular pan. However, if the extra trailer also has round corners at the front, the volume calculation would be the same as explained above.

### INSTRUCTIONS TO TAKE THE NECESSARY DIMENSIONS OF ROUND BOTTOM

TRUCK (refer to Figure 2 on the next page):

“a”: The width of the pan

“b”: The depth of the vertical portion (the side) of the pan

“c” and “d”: Both are equal to half the width of the pan

“e”: Run a string between the lower ends of the vertical portions of the pan (the sides) and measure the distance from the mid-point of the string to the bottom of the pan.

*NOTE: all dimensions used in the above formulas must be in feet, with inches converted to fractions of feet, using the following conversions (for example, 8' 5" should be written as 8.42'):*

1" = .08'

2" = .17'

3" = .25'

4" = .33'

5" = .42'

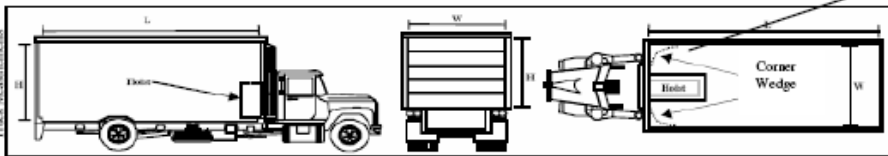
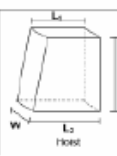
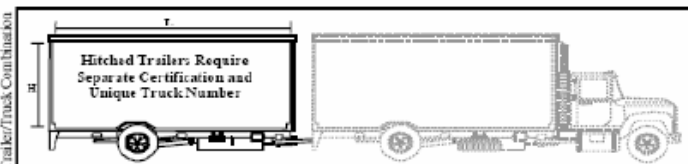
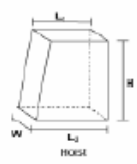
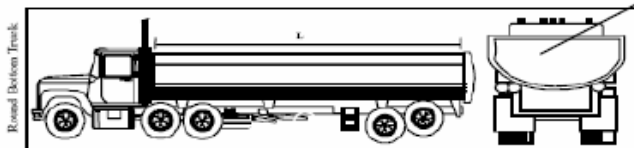
6" = .50'

7" = .58'

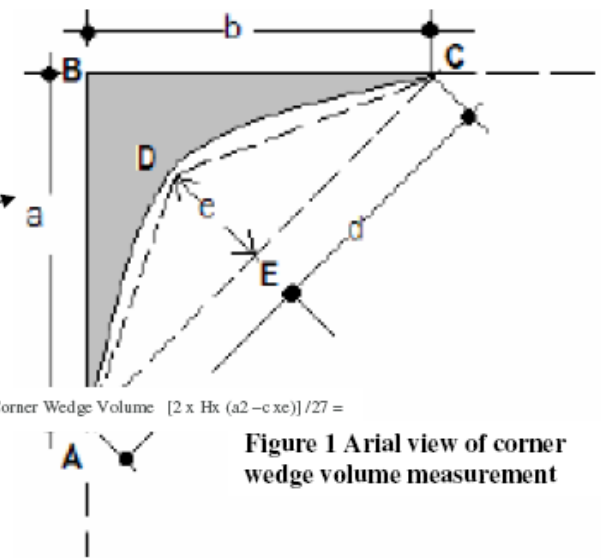
8" = .67'

9" = .75'

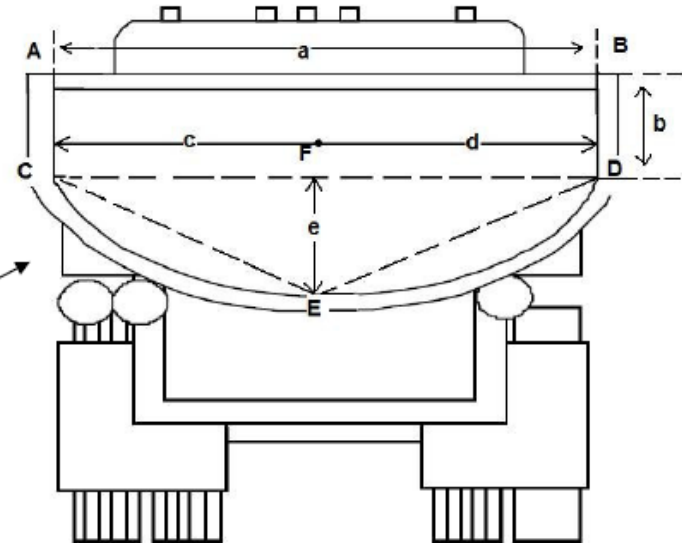
10" = .83'

DUMP TRUCK			
<b>Measurements</b>			
Truck Measurements	Length (L) = <input style="width: 80px;" type="text"/>	Width (W) ft = <input style="width: 80px;" type="text"/>	Height (H) ft = <input style="width: 80px;" type="text"/>
Hoist Measurement	Length <sub>1</sub> (L <sub>1</sub> ) ft = <input style="width: 80px;" type="text"/> Length <sub>2</sub> (L <sub>2</sub> ) ft = <input style="width: 80px;" type="text"/>	Width <sub>H</sub> (W <sub>H</sub> ) ft = <input style="width: 80px;" type="text"/>	Height <sub>H</sub> (H <sub>H</sub> ) ft = <input style="width: 80px;" type="text"/>
<b>Calculations</b>			
Bed Volume (Basic)	$(L \times W \times H) / 27 =$ <input style="width: 80px;" type="text"/>	+ <input style="width: 80px;" type="text"/>	Cubic Yards
Hoist Volume	$\{[(L_1 + L_2) / 2] \times H_H \times W\} / 27 =$ <input style="width: 80px;" type="text"/>	- <input style="width: 80px;" type="text"/>	
Corner Wedge Volume	$[2 \times H \times (a^2 - c \times e)] / 27 =$ <input style="width: 80px;" type="text"/>	- <input style="width: 80px;" type="text"/>	
Total = <input style="width: 100px;" type="text"/>		cyd	
Truck Measurements			
EXTRA TRAILER			
<b>Measurements</b>			
Truck Measurements (Basic)	Length (L) = <input style="width: 80px;" type="text"/>	Width (W) ft = <input style="width: 80px;" type="text"/>	Height (H) ft = <input style="width: 80px;" type="text"/>
Hoist Measurement	Length <sub>1</sub> (L <sub>1</sub> ) ft = <input style="width: 80px;" type="text"/> Length <sub>2</sub> (L <sub>2</sub> ) ft = <input style="width: 80px;" type="text"/>	Width <sub>H</sub> (W <sub>H</sub> ) ft = <input style="width: 80px;" type="text"/>	Height <sub>H</sub> (H <sub>H</sub> ) ft = <input style="width: 80px;" type="text"/>
<b>Calculations</b>			
Bed Volume (Basic)	$(L \times W \times H) / 27 =$ <input style="width: 80px;" type="text"/>	+ <input style="width: 80px;" type="text"/>	Cubic Yards
Hoist Volume	$\{[(L_1 + L_2) / 2] \times H_H \times W\} / 27 =$ <input style="width: 80px;" type="text"/>	- <input style="width: 80px;" type="text"/>	
Corner Wedge Volume	$[2 \times H \times (a^2 - c \times e)] / 27 =$ <input style="width: 80px;" type="text"/>	- <input style="width: 80px;" type="text"/>	
Total = <input style="width: 100px;" type="text"/>		cyd	
Trailer/Truck Combination			
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">             Hitched Trailer: Require Separate Certification and Unique Truck Number           </div>			
ROUND BOTTOM TRUCK			
<b>Measurements</b>			
Truck Measurements	Length (L) ft = <input style="width: 80px;" type="text"/>	Diameter (D) ft = <input style="width: 80px;" type="text"/>	
<b>Calculations</b>			
Approx. Volume $[L \times (a \times b + c \times e)] / 27 =$ <input style="width: 100px;" type="text"/>		cyd (round bottom portion only)	
Round Bottom Truck			Cubic Yards

### Truck Certification Form (continued)



**Figure 1** Aerial view of corner wedge volume measurement



**Figure 2** Round Bottom Truck