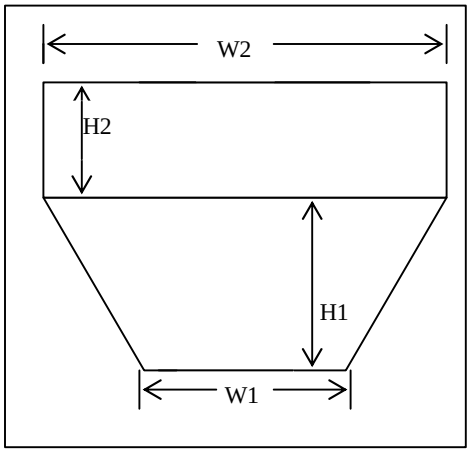
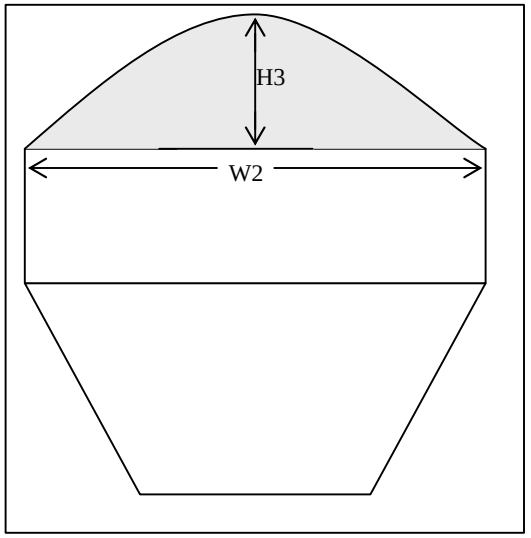
Estimating the Volume and Capacity of Spreaders with Trapezoidal Bottom (*Revised*)

Use these calculations to estimate volume and capacity of spreader or truckload of poultry litter.

(L) Length of spreader or trailer _____





Dry system - measure all dimensions in feet and tenths of feet. (round measurements to even inch and divide by 12 to get feet and tenths)

A. Spreader Volume

Box spreader (level load):

$$\left[\left(\frac{W1 + W2}{2}\right) \times (H1) \times (L)\right] + \left[(W2 \times H2) \times (L)\right] = \_\_\_\_\_ \text{ Cubic Feet Level Load}$$

Box spreader (piled load): Add these values for Cu.Ft. of Piled Load

$$\left(\frac{W2}{2} \times H3\right) \times \left(L - W2\right) = \_\_\_\_\_ \text{ Additional cubic feet in piled section}$$

_____ Cubic feet in level load

_____ Total Cu.Ft. in Piled Load

B. Spreader Capacity

(Cubic feet _____ x 32) ÷ 2000 = _____Tons per Load