

# “Stockpile Volume Measurement; Fast and Easy”

Up until now, measuring stockpile volume has been difficult, time consuming, and largely inaccurate. With the latest laser rangefinder from Laser Technology, the process is much easier and much less expensive.

Stockpiles can be made up of chips, hog fuel, gravel, rock, dirt, mine tailings, or any other kind of material. They are usually uneven, on sloped ground, and frequently not easy to get all the way around while measuring.

The TruPulse 360B laser range finder, TDS Recon Pocket PC, and MapSmart software make the process easy and fast. Accuracy can be expected to be in the range of plus or minus 5% of actual. (as measured by engineers)

Once the basic process is learned, the person doing the measurement can usually measure a pile of 50,000 to 100,000 cubic yards in about two hours. Smaller piles are much quicker. Piles much larger than 100,000 cubic yards can be measured.

It is very easy to learn how to run the MapSmart software and the TruPulse 360B laser rangefinder. The entire system is designed to be used in rain. This is a significant advantage over other systems such as Lidar flyovers, which can not be accomplished in inclement weather. The process is also very safe in that the people doing the measurements do not have to climb on top of the piles.

All data collected on the Recon Pocket PC can be exported to a desktop PC later. The data includes a record of each individual shot taken by the TruPulse 360B laser rangefinder. This is a great benefit for the accountants, who like to have detailed information for auditing purposes.

(continued on the next page)

**Special Price:**  
**\$4,399.00**

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**Typical Chip Pile in Coos Bay, Oregon**



**Sighting Through the TruPulse 360B**



**Recon 400X Pocket PC  
Mounted on a Range pole  
With Bipod legs**

**Resource**

*“Expert Knowledge”*

*“Superb Support”*

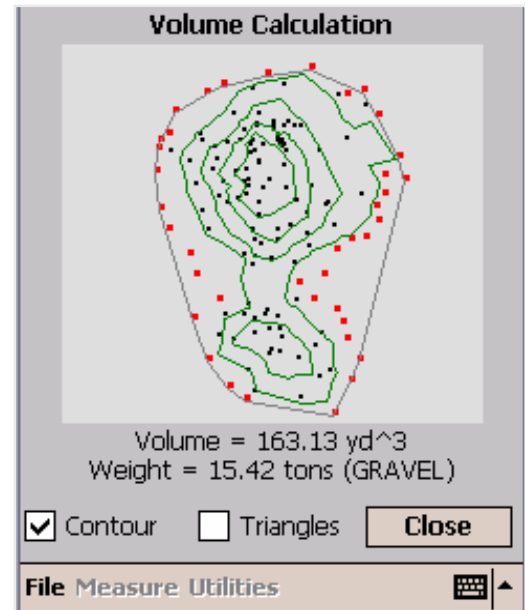
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The data is exported as text files and in DXF format for importing into GIS or CAD programs. The contour map as shown on the right is available on the Recon Pocket PC and can also be exported.

Volumes can be calculated in cubic yards or cubic meters. The user can input weight conversions to provide weight in tons.

### Typical Stockpile Measurement Procedure:

1. Walk around the pile, temporarily marking instrument points that will afford full coverage of the surface.
2. Choose a starting point, set up and configure the LTI MapSmart system and your data collection software.
3. Aim and shoot all necessary points on the pile from the starting location.
4. After collecting your last data point, aim and shoot to the next instrument location and then occupy that point.
5. Continue shooting the pile from each new location until the entire surface has been measured.
6. Transfer your field data to your PC for processing and volume calculations.



Volume Calculation Report in MapSmart



Chip Piles in North Bend, Oregon Which Have Been Measured With the TruPulse 360B, TDS Recon, and MapSmart Software

**Special Price:**  
**\$4,399.00**

**Includes:**  
Recon 400X Pocket PC  
2 Gig SD card  
MapSmart Software  
TruPulse 360B  
Mounting Hardware  
Range Pole  
Tri-pod Legs  
Free Support

For additional information on the TruPulse 360B, TDS Recon Pocket PC, and the MapSmart software contact Jon Aschenbach at:

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