# "Using Laser Rangefinders to Measure Log Deck Volume"

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### Aerial View of Log Decks



### Why Measure Log Deck Volume?

- Decks have huge dollar value
- Audit for Accountants
- Decks used as collateral for a loan
- Inventory management

### Why use laser rangefinders?

- 1. Reduce time measuring decks
- 2. One person operation
- Measure a wide variety of decks easily
- 4. Measurement is Repeatable
- Accuracy is very good
- Very Safe (if you're careful)



### Laser Rangefinders

- TruPulse 200 and 200B
- TruPulse 360B with built-in compass



### Features of TruPulse Lasers

- Horizontal accuracy normally ½ foot
- Maximum distance to non-reflective target is 1,000' plus
- Closest and Farthest Modes
- AA batteries last 4,000 shots minimum
- Handheld
- Both measure HD, SD, VD, Inc.



#### TruPulse 360B

- Built-in Compass
- Compass works in any position
- Metal objects can cause problems
- Daily calibration required (takes 30 seconds
- Missing Line mode shooting two targets:
  - Calculate HD, VD, SD, Inclination, AZ between target 1 & 2

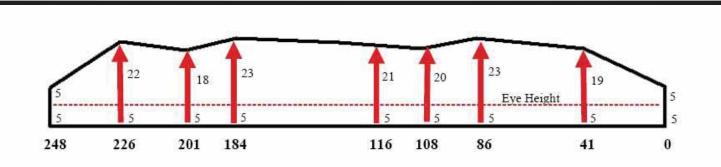


# Narrow Spaces Between Decks is a Major Problem for Measurement

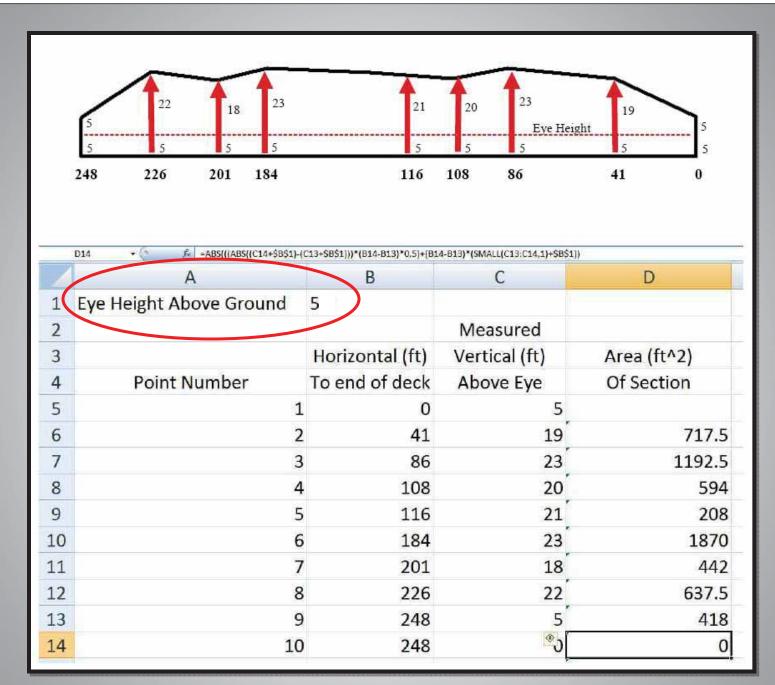


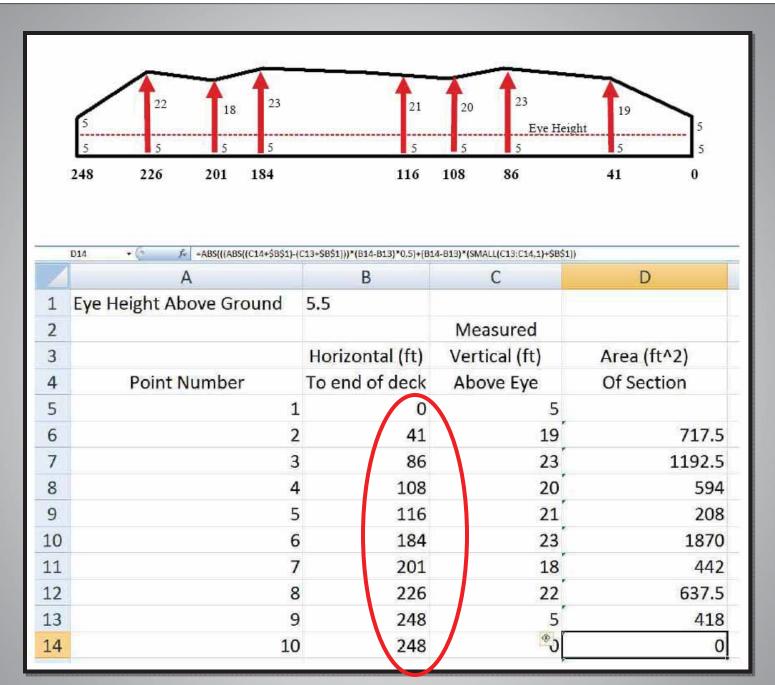
# Simple Method for Using a TruPulse 200 or 360 for Measuring Deck Volume

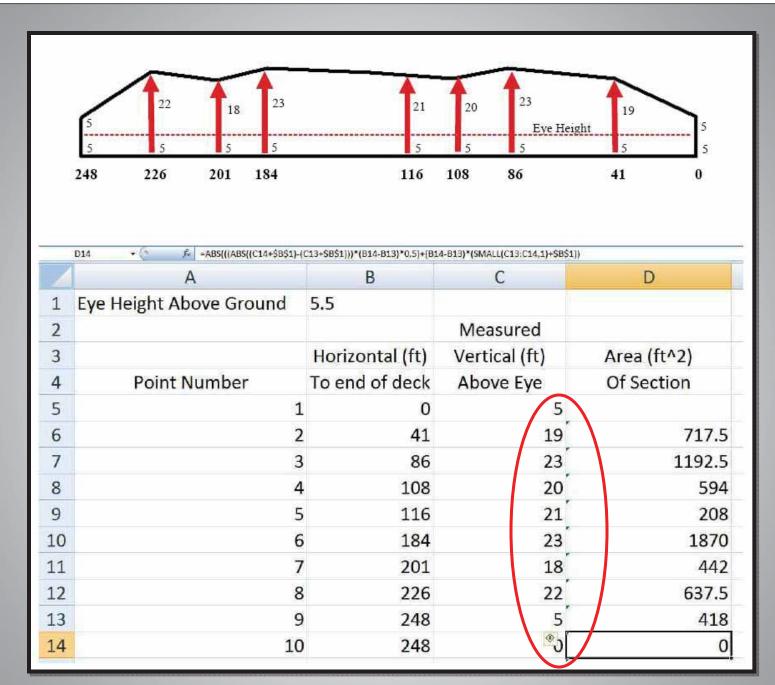




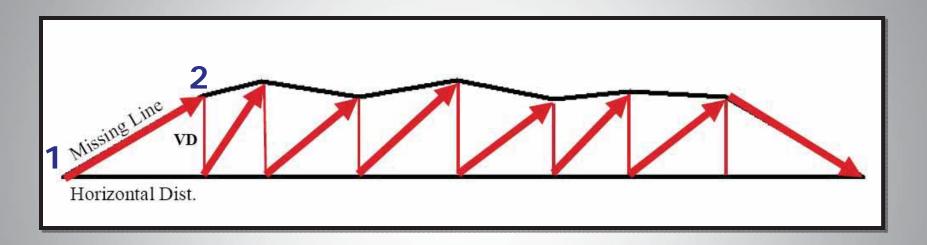
	A	В	С	D
1	Eye Height Above Ground	5.5		
2			Measured	
3		Horizontal (ft)	Vertical (ft)	Area (ft^2)
4	Point Number	To end of deck	Above Eye	Of Section
5	1	. 0	5	
6	2	41	19	717.5
7	3	86	23	1192.5
8	4	108	20	594
9	5	116	21	208
10	6	184	23	1870
11	7	201	18	442
12	8	226	22	637.5
13	9	248	5	418
14	10	248	<b>ీ</b> ఎ	0







# Missing Line Mode with TruPulse 360B



In missing line mode, you measure two points and the TruPulse calculates the Horizontal Distance and the Vertical Distance between them automatically.

## Backstops



### "Windows Of Opportunity"



#### Freebies on CD

- Log Deck Measuring Spreadsheet
- TruPulse Video
- MapSmart Software Doc. (Stockpile Volume Measurement)
- Irfanview Picture Editor
- TruPulse 360B Stockpile tutorial
- ArcPad Mobile GIS (SP#) eval copy

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