

"Using Laser Rangefinders to Measure Log Deck Volume"

By:

Resource Supply, LLC

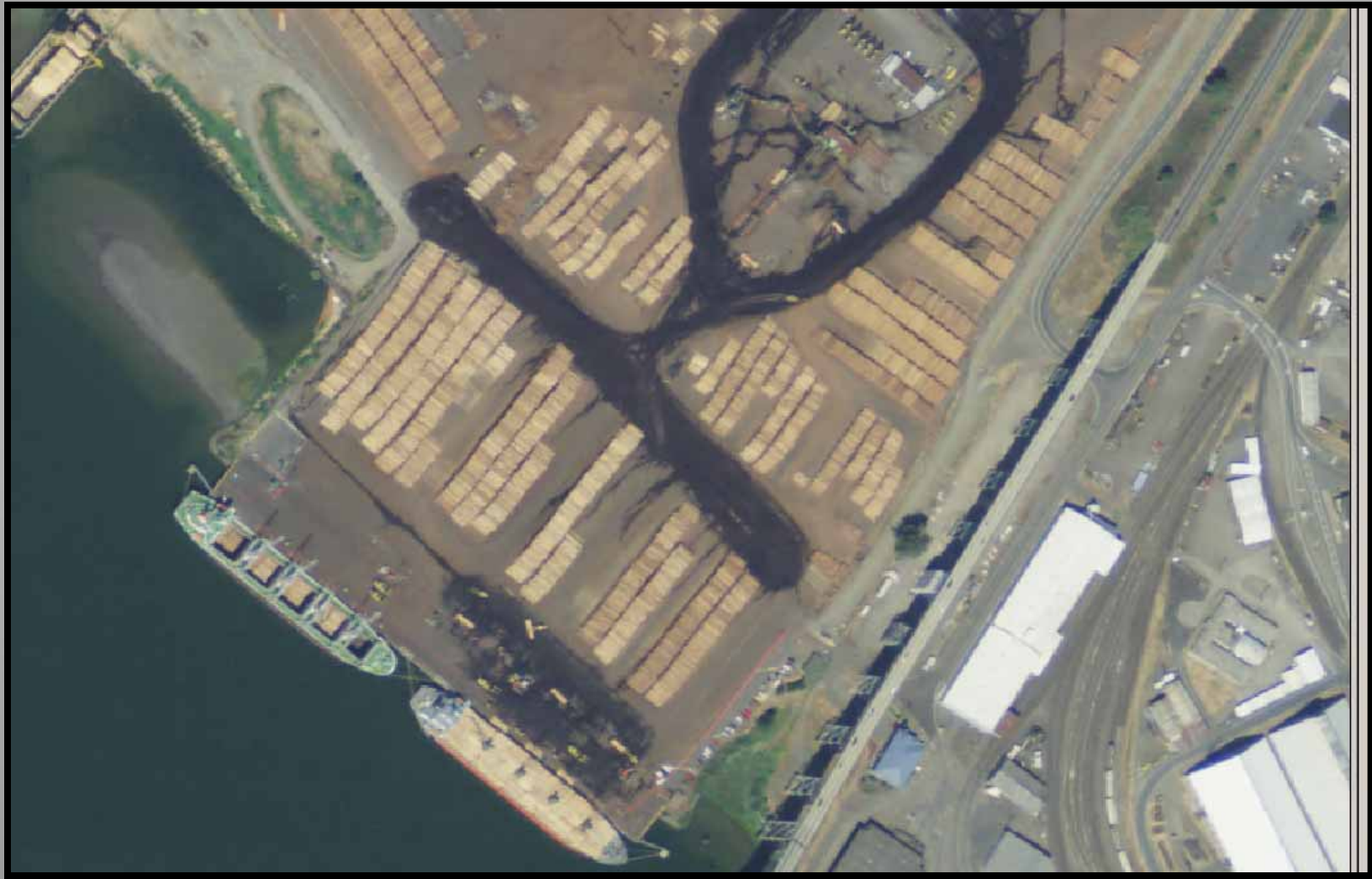
11607 SW Winter Lake Dr

Tigard, OR 97223

503-521-0888



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
3. Measure a wide variety of decks easily
4. Measurement is Repeatable
5. Accuracy is very good
6. 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



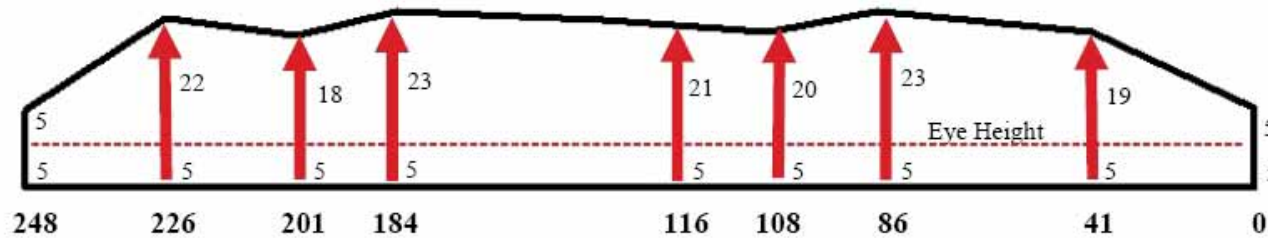
- Built-in Compass
- Compass works in any position
- Metal objects can cause problems
- Daily calibration required (takes 30 seconds)
- Missing Line mode shooting two targets:
 - Calculate HD, VD, SD, Inclination, AZ between target 1 & 2

Narrow Spaces Between Decks is a Major Problem for Measurement



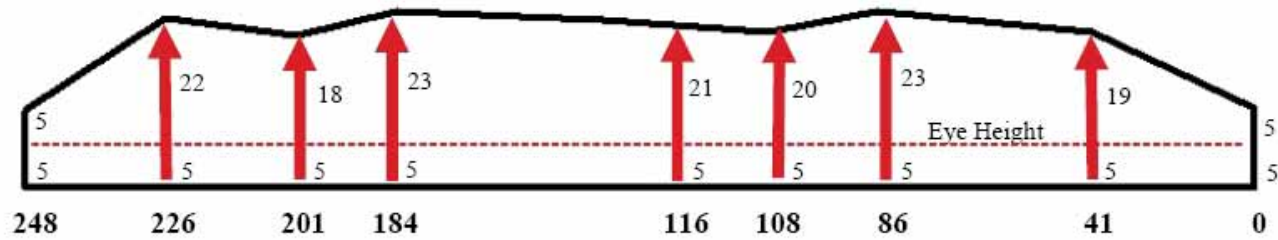
Simple Method for Using a TruPulse 200 or 360 for Measuring Deck Volume





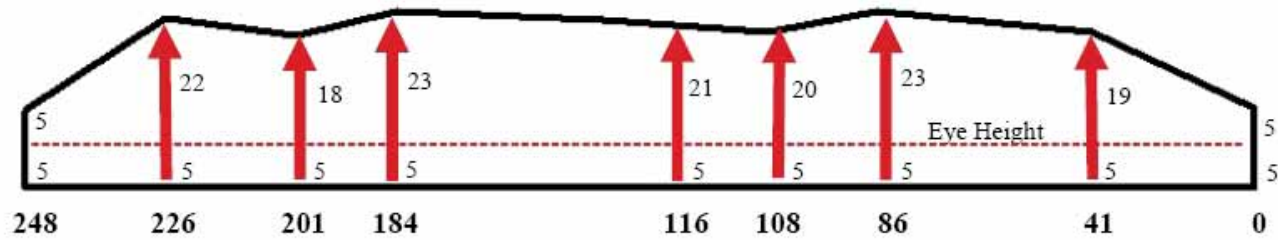
D14 =ABS(((ABS((C14+\$B\$1))-(C13+\$B\$1)))*(B14-B13)*0.5)+(B14-B13)*(SMALL(C13:C14,1)+\$B\$1))

	A	B	C	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	0	0



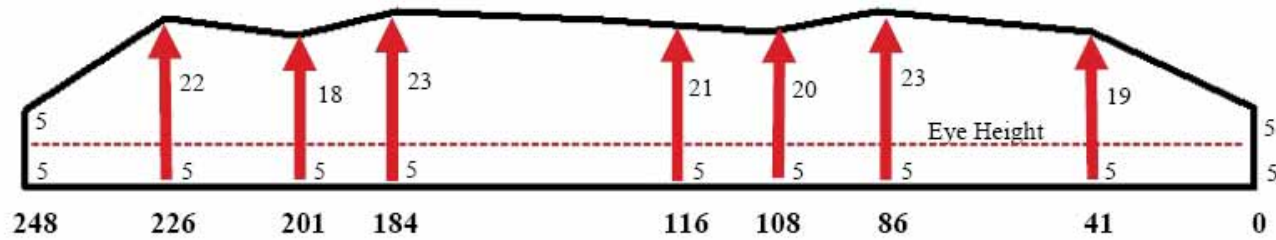
D14 =ABS(((ABS((C14+\$B\$1))-(C13+\$B\$1)))*(B14-B13)*0.5)+(B14-B13)*(SMALL(C13:C14,1)+\$B\$1))

	A	B	C	D	
1	Eye Height Above Ground	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	0	0



D14 =ABS(((ABS((C14+\$B\$1)-(C13+\$B\$1)))*(B14-B13)*0.5)+(B14-B13)*(SMALL(C13:C14,1)+\$B\$1))

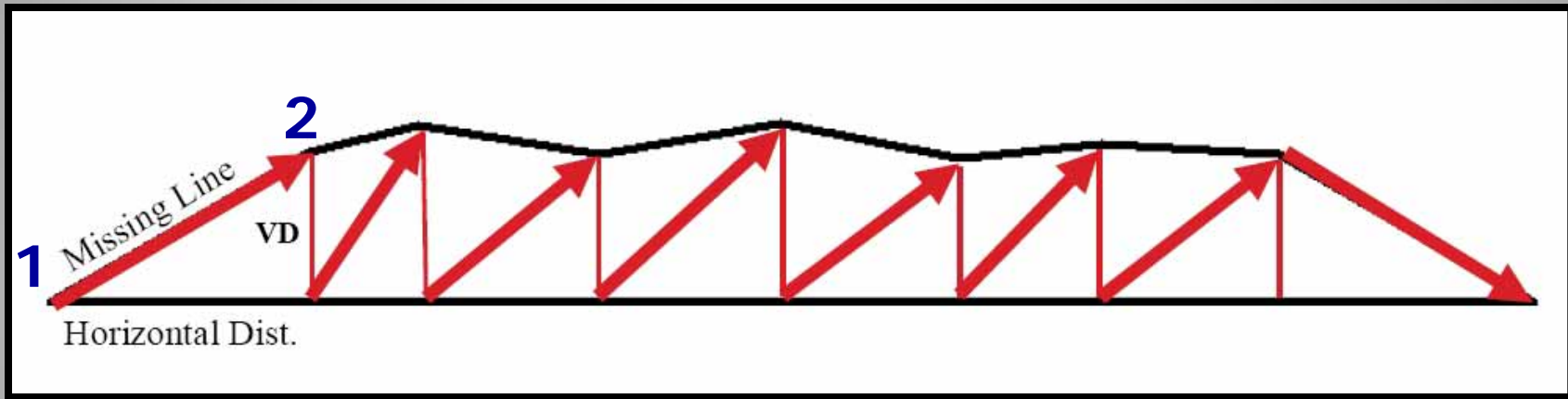
	A	B	C	D
1	Eye Height Above Ground	5.5		
2			Measured	
3		Horizontal (ft)	Vertical (ft)	Area (ft^2)
4	Point Number	To end of deck	Above Eye	Of Section
5		1	0	
6		2	41	717.5
7		3	86	1192.5
8		4	108	594
9		5	116	208
10		6	184	1870
11		7	201	442
12		8	226	637.5
13		9	248	418
14		10	248	0



D14 =ABS(((ABS((C14+\$B\$1))-(C13+\$B\$1)))*(B14-B13)*0.5)+(B14-B13)*(SMALL(C13:C14,1)+\$B\$1))

	A	B	C	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	0	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

Contact Information

Jon Aschenbach

Resource Supply, LLC

11607 SW Winter Lake Dr.

Tigard, OR 97223

503-521-0888

www.resourcesupplyllc.com

www.ruggedready.com