



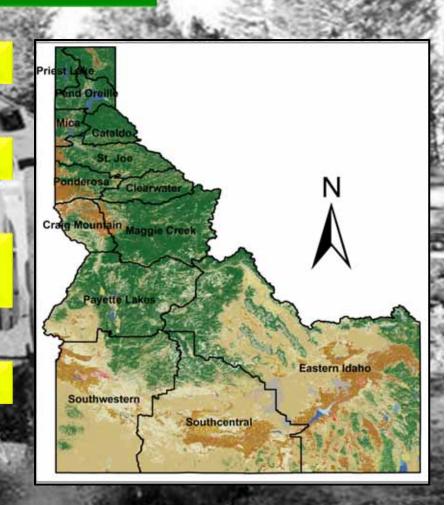


One conversion for each supervisory district

**Updated Yearly** 

Does not vary by season, species, product type, or defect %

No conversions for cedar products, poles





#### **Methods**

Felled 30 Douglas-fir (*Pseudotsuga menziesii*) in 3 size classes 5-10, 10-15, 15-20 inches DBH

2 treatments 1) Cut-to-length

2) Whole tree

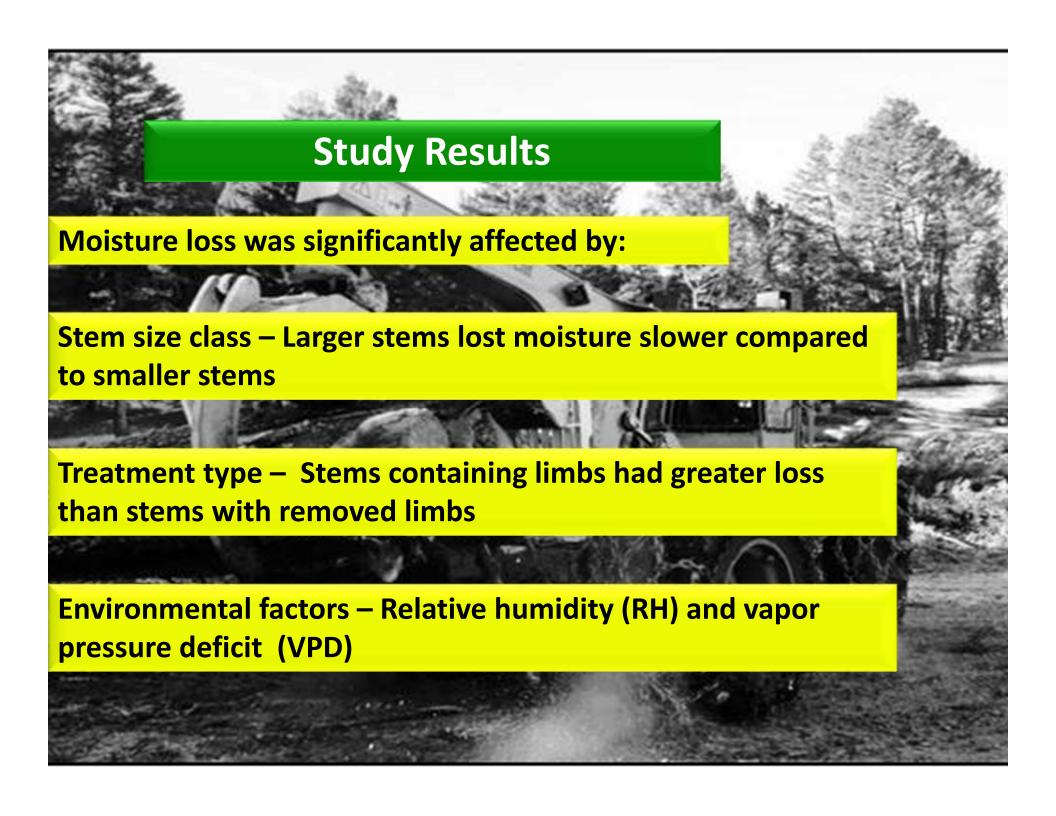
1 TO 1

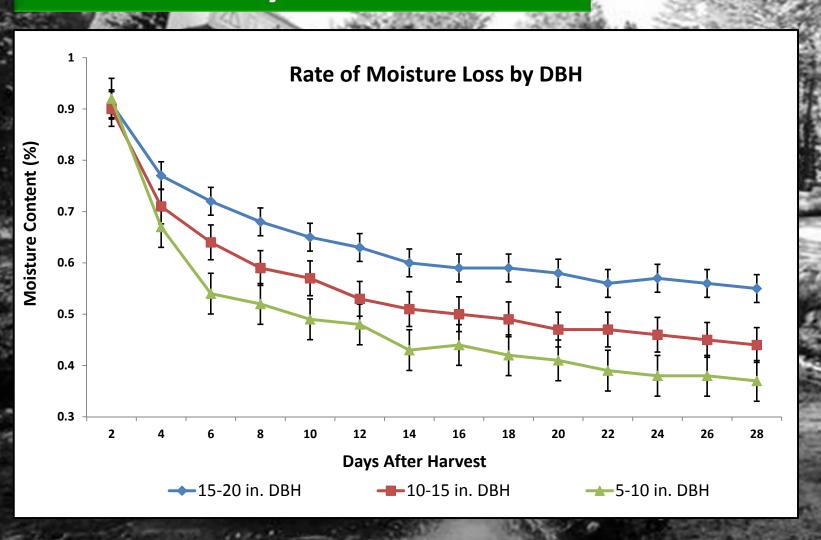
Sample cores were collected on alternate days through a 28 day period

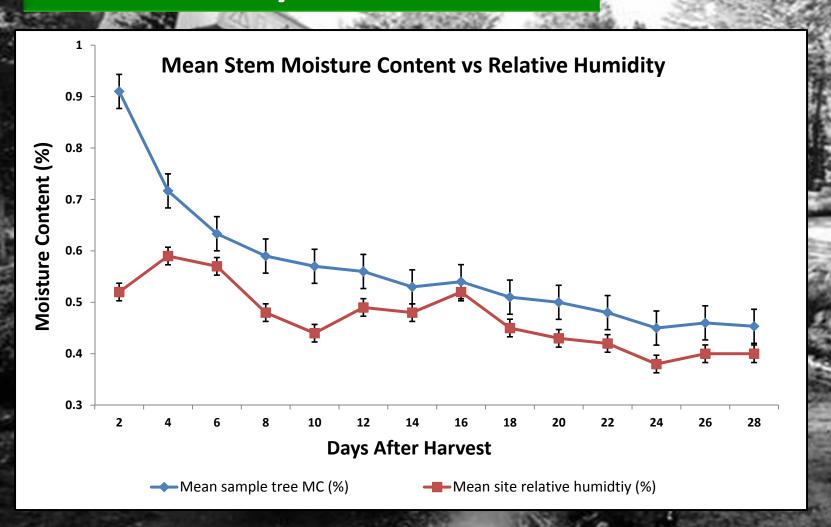
Cores were dried and weighed to obtain moisture content

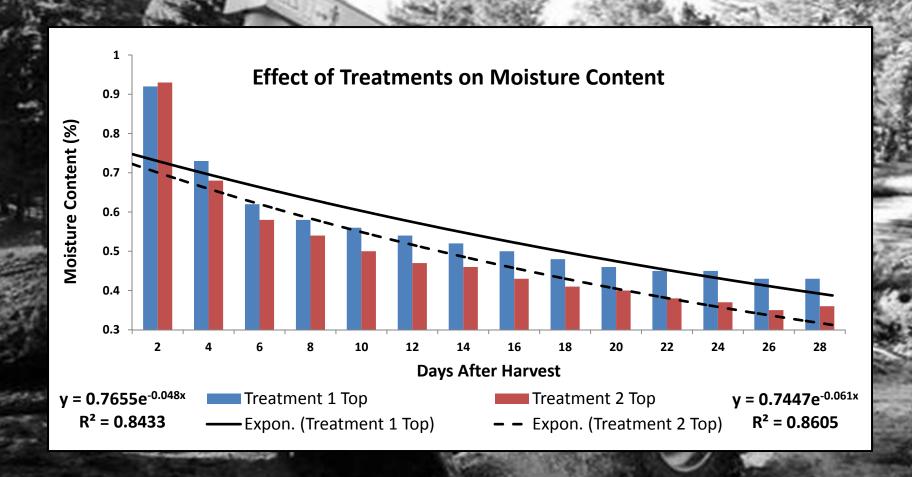


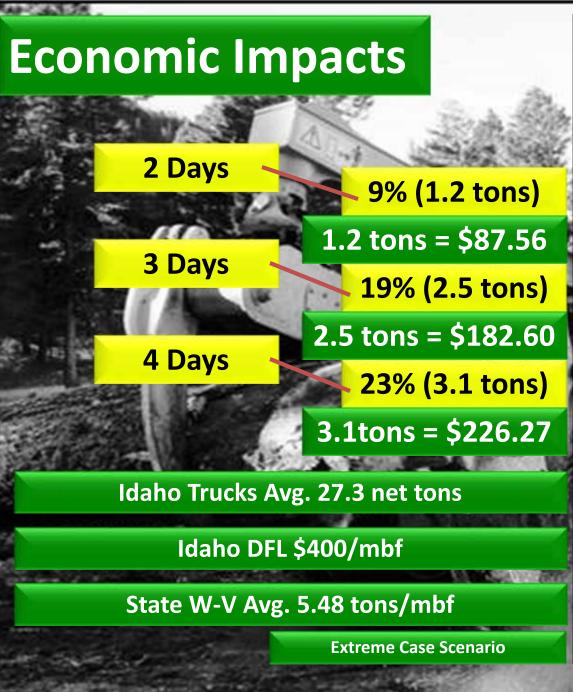
## **UI Moisture Loss Study** Methods cont. **Treatment 1** ght Sampling WASHINGTON Sandpoint **Drying** IDAHO Mascow Grangeville



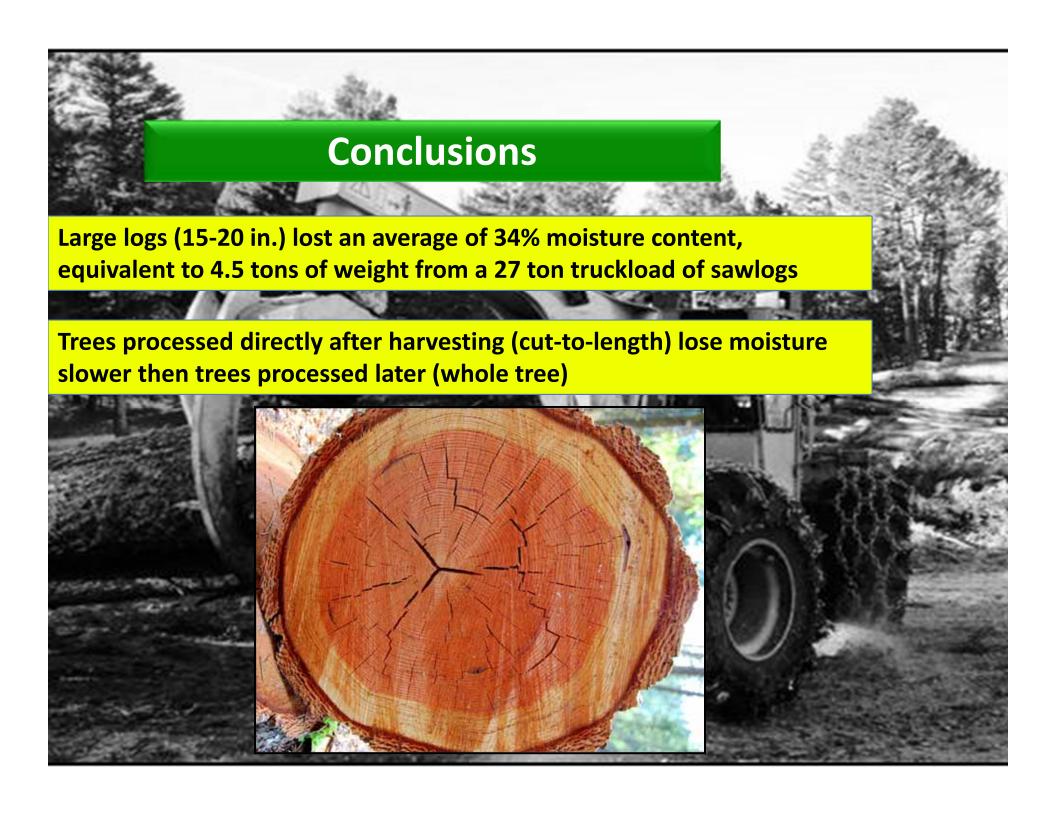


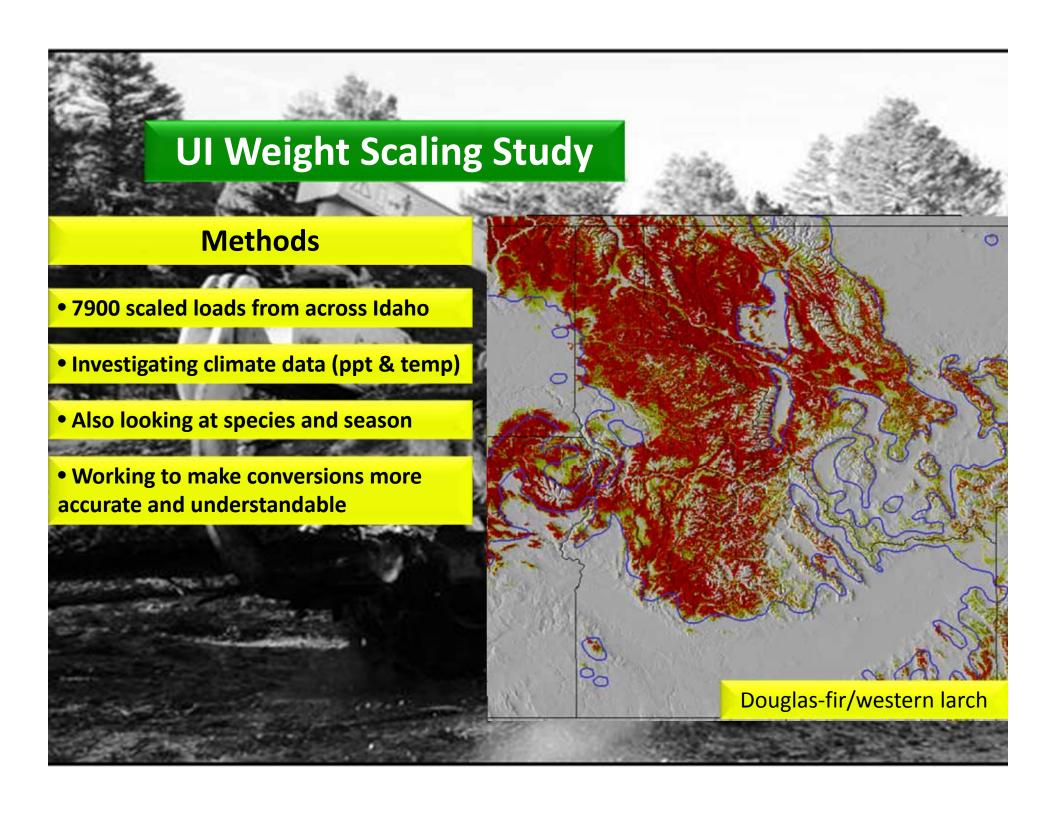


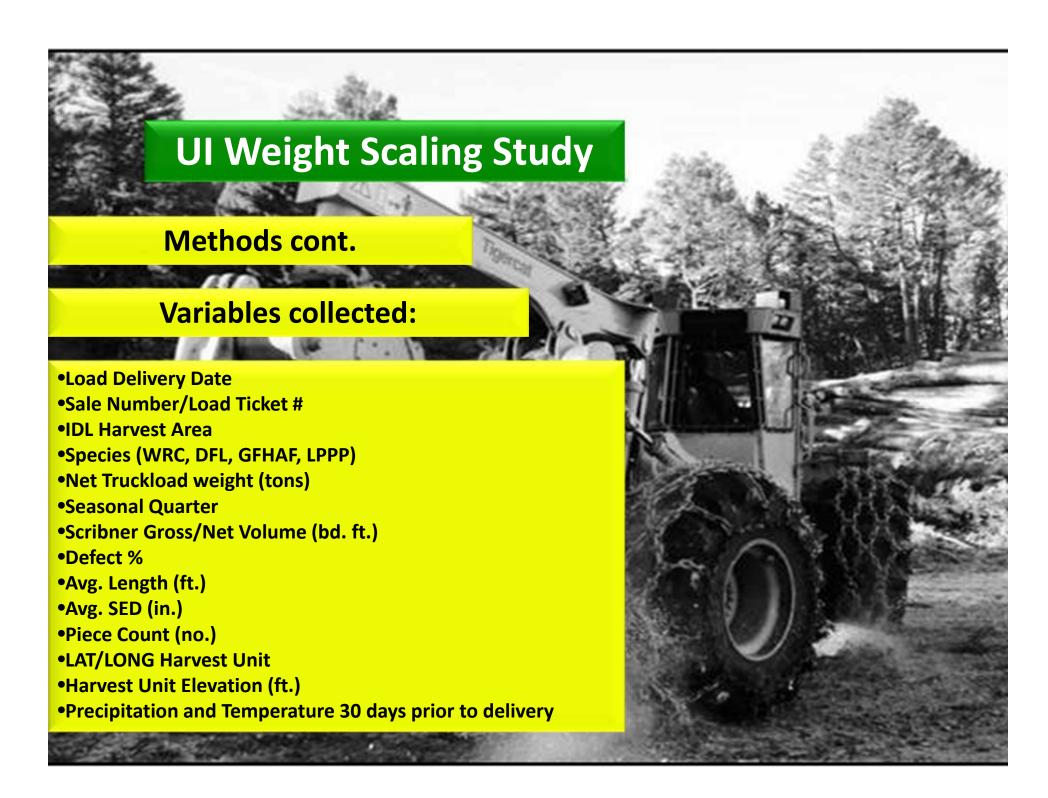




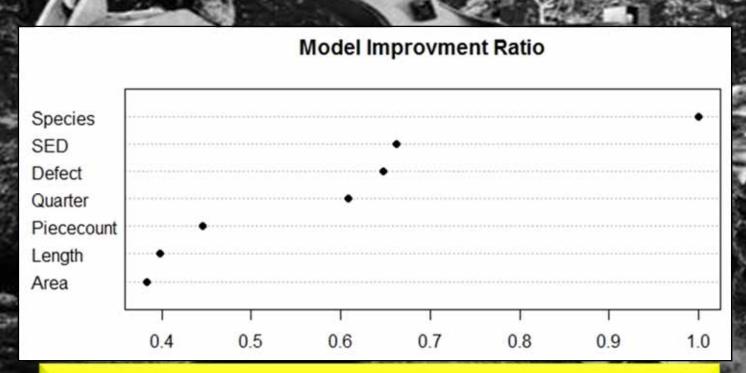






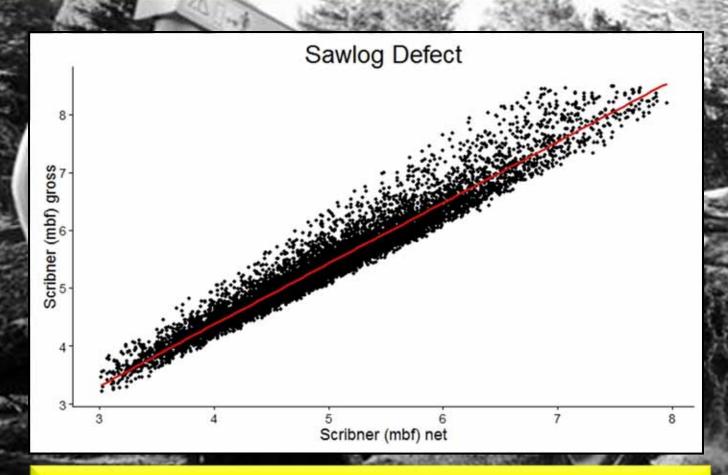


W:V relationships were best explained by:

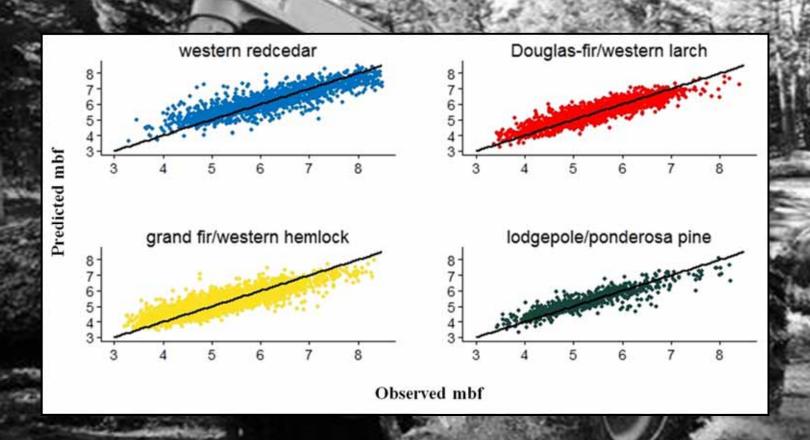


Quarter was used as a surrogate for precipitation and temperature

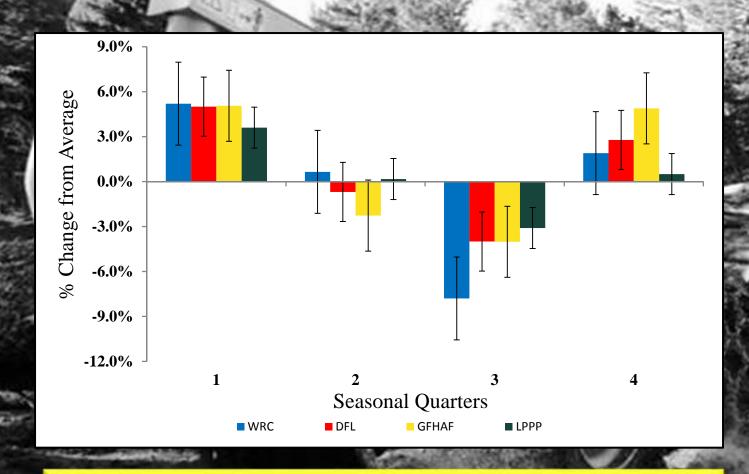
Harvest Area was not found to be a significant predictor



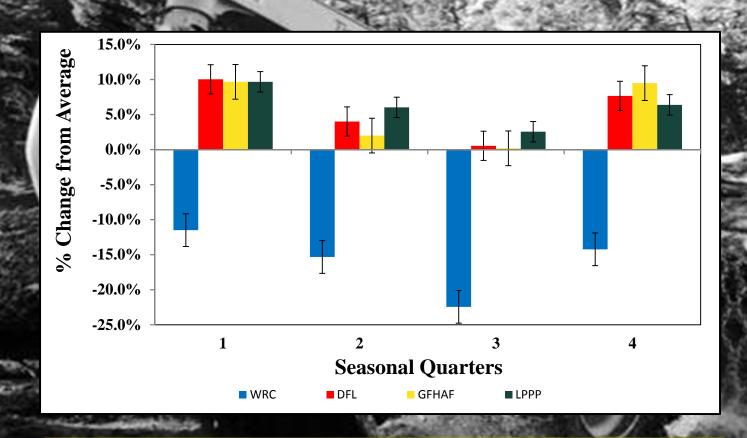
Defect was not significantly different across species, area, season



Variation between observed and predicted values of net truckload volumes



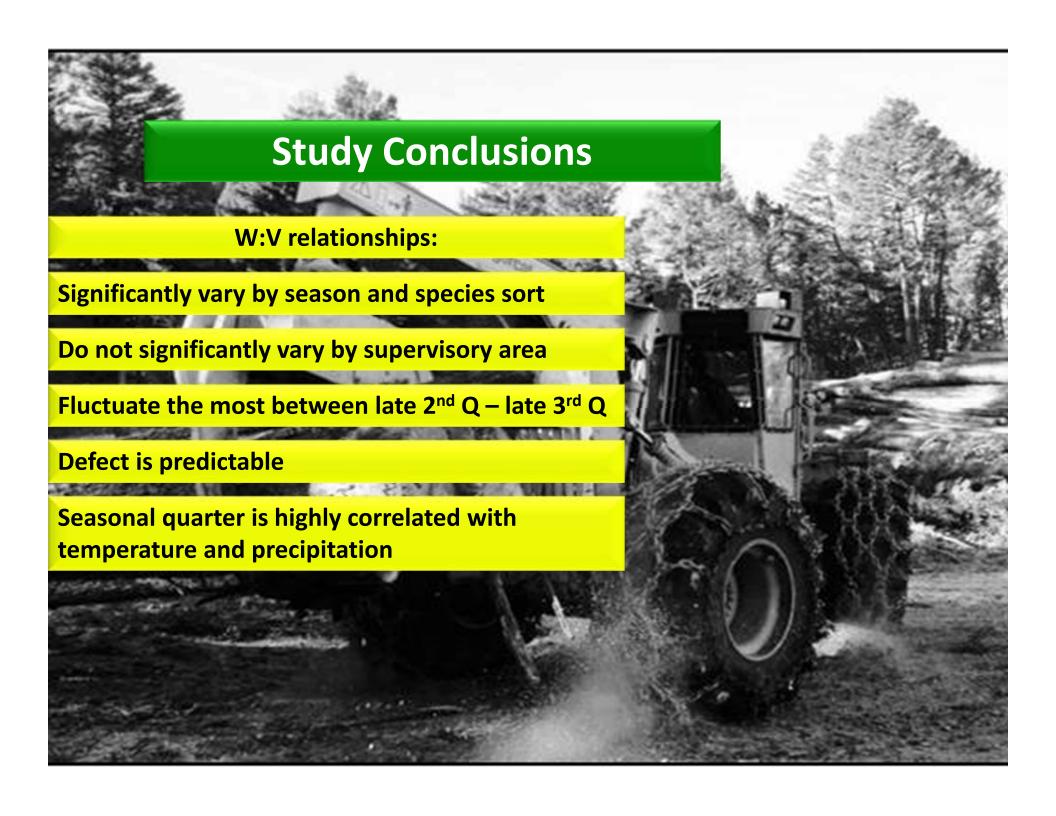
% change in W:V relationship of each species sort compared to their yearly average W:V

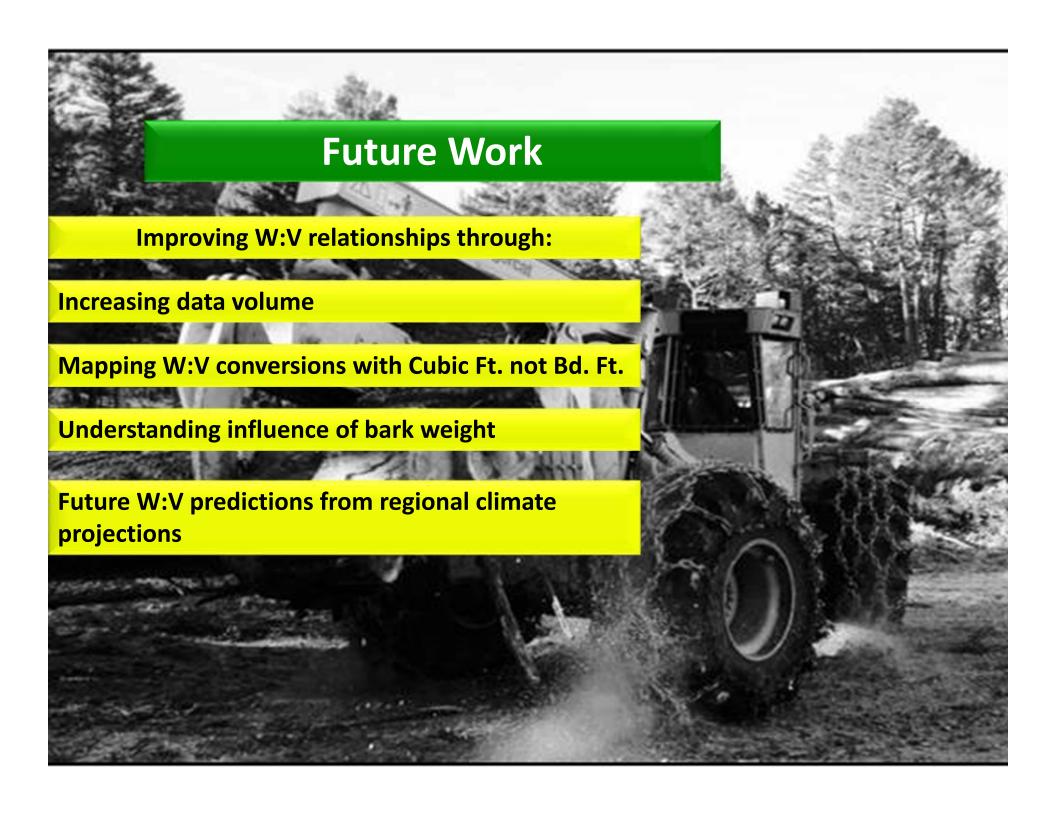


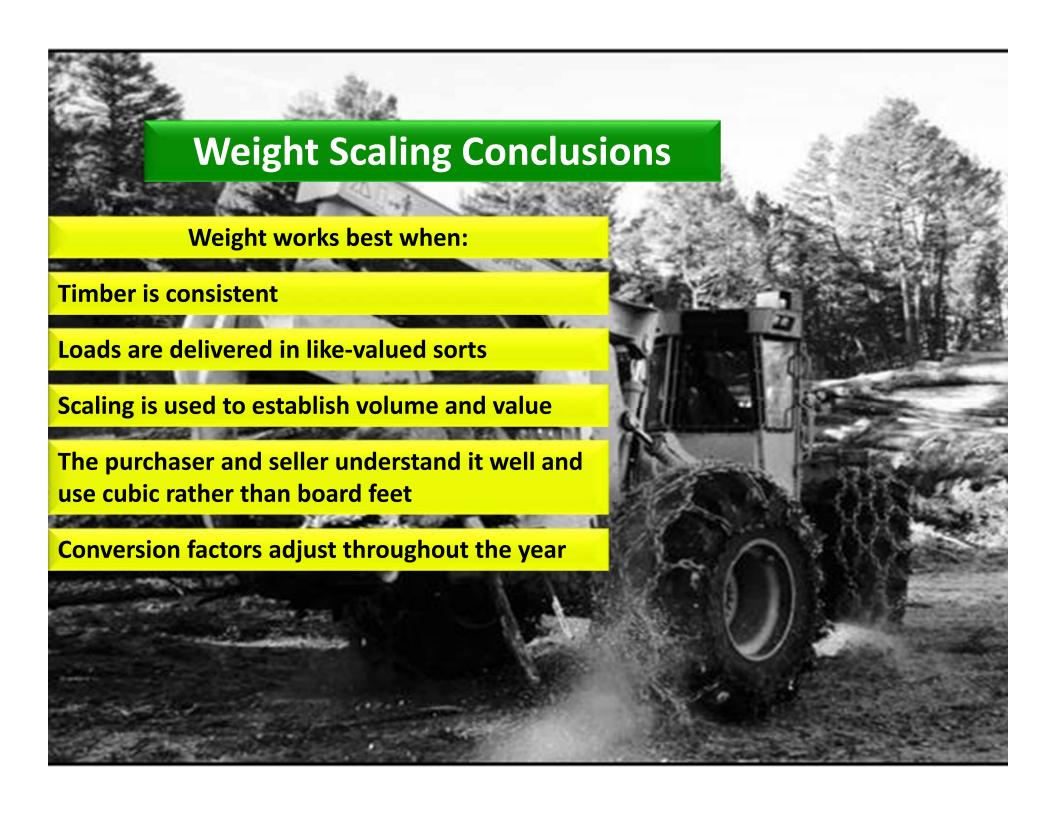
% change in W:V relationship of each species sort compared to the current IDL yearly state average of 5.48 tons/mbf



Species/Quarter	Defect (%)	Weight:Volume
WRC- 1	8.7	4.85
WRC- 2	8.9	4.64
WRC- 3	11.0	4.25
WRC- 4	9.5	4.70
WRC-avg	9.7	4.61
DFL- 1	8.6	6.03
DFL- 2	8.7	5.70
DFL- 3	9.0	5.51
DFL- 4	8.8	5.90
DFL-avg	8.8	5.74
GFHAF- 1	6.9	6.01
GFHAF- 2	8.0	5.59
GFHAF- 3	6.7	5.49
GFHAF- 4	6.6	6.00
GFHAF-avg	6.6	5.72
LPPP- 1	5.9	6.01
LPPP- 2	5.7	5.81
LPPP- 3	6.1	5.62
LPPP- 4	6.4	5.83
LPPP-avg	6.0	5.80









- •Bauer, E., Hogan, R. 2006. Log Scaling in Idaho, Scaling and Marketing Private Timber. University of Idaho Cooperative Extension
- •Bowyer, J. L., Shmulsky, R., and Haygreen, J. G. 2007. Forest Products and Wood Science: An Introduction. Blackwell Pub. Ames, Iowa. 558p.
- •Breiman, L., 2001. Random Forests. *Machine Learning*, 45: 5-32.
- •Daniels, Robert A. 2005. *Marketing Your Timber: The Basics Of Weight Scaling*. Starkville: Mississippi State University. Cooperative Extension Service.

# Questions? University of Idaho DAHO DEPARTMENT OF LANDS