









- Trees cannot grow without water
- Wood and water get along most of the time
- Water affects properties and service performance
 Strength, durability, dimensions...
- Wood achieves best performance when dry
 - Framing is expected to be "dry" (≤19% based on NBCC)

Basics

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- Wood can tolerate certain amounts of water
- But there is a limit
- Moisture impact must be considered in design







Decay Initiation Times under Marginal MC				
	90% RH	95% RH	~100% RH	40% MC
Hemlock	18%	24%	-	38% (21 weeks)
OSB	19%	25%	27% (36 weeks)	45% (21 weeks)
Plywood	22%	28%	-	45% (> 74 weeks)
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