HOW SAWING AFFECTS DRYING

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HOW SAWING AFFECTS DRYING

1. Warp
2. Color (stain)
3. Surface checks & End checks
4. Drying Time
HOW SAWING AFFECTS DRYING

1. Warp
HOW SAWING AFFECTS WARP

Natural growth stress in a tree
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Growth stress in lumber
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SHRINKS LENGTHWISE
HOW SAWING AFFECTS DRYING

Preferred Sawing Pattern in order to balance stress
Preferred pattern

Inferior pattern;
Side-bend likely
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Compression wood
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Natural shrinkage and cupping
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Spiral grain; twist likely
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Interlocked grain = ribbon pattern
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2. STAIN
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Blue stain = Sap stain
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HOW SAWING AFFECTS DRYING
How sawing affects drying brown stain
HOW SAWING

Interior grey stain
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Sticker stain
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Columbian timber beetle stain
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3. CHECKS
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Dull saw increases checking by 12 times
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Coatings must be thick
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Chemical Changes with storage

--weakens wood, making checking more likely
HOW SAWING AFFECTS DRYING MISC.
Tension wood
Tension wood
Brash wood
HOW SAWING AFFECTS DRYING

BACTERIAL INFECTION
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What this means is:

* Shake (or wind shake)
* Smelly wood
* Very high initial MCs; longer drying time
* Wet pockets in “dry” wood; delayed shrinkage
* Checks, honeycomb and splits much more likely when drying
* Planer splitting
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4. Drying Time:

Q-saw -- 15% longer
Bacterial -- longer (slower and more moisture)
Thicker -- longer
Stored logs -- longer
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QUESTIONS or COMMENTS?