

Log Grading

- **What & Why?**

- **Statutory Log Grades**
 - products & grades
 - premium lumber
 - D E F G

 - veneer
 - (A) B & C

 - standard lumber
 - H I J

 - shake/shingle
 - K L M

 - utility (crap) lumber
 - U X

 - pulp
 - (X) Y

 - firmwood reject
 - Z

- Table: Grade by Species

- **Grades vs. Sorts**

- high grade (350)
- peeler (180)
- standard (saw log) (120)
- gang (small saw log) (70)
- pee wee (60)
- utility (50)
- large pulp / pulp (40)
- boom sticks
- poles

- **Useful definitions**

- fractures (check, shake, shatter)

- slab

- "cut"
 - %V

 - % ML

 - %L

 - %SS

 - %C

 - %M

- trim allowance (=grade consideration)

- firmwood reject
 - too small/rotten to be processed

 - (Johnny) Rotten
 - <50% sound

 - **short**
 - < 1.2m net Length

 - **skinny**
 - < 5 R net @ butt
 - portion of log <5R

- **"The Card" & Grading thought process**
 - "start at the top"

 - consider
 - size (top & L)
 - % cut (= product)
 - knots
 - other 'defects'

- **Log Characteristics**
 - **Top Radius**
 - **gross** ave measure, not net
 - all have min, J also has max (8-18)
 - long logs @ 12.8m

 - **Length**
 - **gross** measure

 - **Knots**
 - knot indicators
 - right angle, max. for peelers
 - OLK for S/L, 1/3m, but 2/3m for large X

- **Ring Count**
 - 1/3 of radius, in from surface
 - need to $\div 6$
 - e.g. $30 \text{ rads} \div 6 = 5 \text{ rad from surface}$
 - count rings "in that rad"

- **Sweep/ Crook/ Pistol Grip**
 - sweep vs crook vs pistol grip
 - "pencil buck" the log into 'defect' and lumber
 - for sweep ... "pencil buck" into 2 smaller logs

- **Twist (spiral grain)**
 - measured where 'representative'
 - offset is measured over 30 cm (15 rads) of length
 - % twist = offset / top (rads)
 - max % and max offset (cannot exceed either)

- **Off Centre**
 - measure 'offset' of pith
 - % offset = offset rads / top rads
 - 10% max for peelers

- **Rot**
 - heart rot: 5 rad collar minimum for lumber
 - extra 1 rad of trim allowance (not sap rot)
 - conk knot ... 100% of length
 - grade consideration vs. vol. ded'n

- **Fractures & Bark Seams**
- **Deep Checks & Shake**
- **Pests**
- **Stain**
- **Pitch**