

Stump Measurement

If wedged,
show wedge
marks

Low Side
Step Height "

DIA 15

BC 10

UC 5

UC%

Opening "

SCORE

High Side
Step Height "

Faller Name

FALLER
STANDS HERE

NOTES:

- Measure in inches
- Backcut measured from wedge placement through the holding wood
- $UC \div DIA = UC\%$
- Circle the score

Part 19A — Demonstrate falling cuts

Objective: The professional faller uses safe work procedures when making falling cuts.

Items/comments



Photo required

If either a pie or conventional cut is used, a picture of the butt of the tree is required.

Take a photo of all stumps scored.

Note to QS/T

Note 1: If the faller determined that the tree had to be wedged, the undercut depth should be 25% of the tree diameter.

Note 2: Timber 60" or more in diameter can have the heart wood cut out of the stem, but holding wood must be maintained on both corners of the stump to maintain control of the tree.

Note 3: Short stubs can have an undercut up to 50%.

Note 4: Reference info flips.

If Part 19A is scored "unacceptable," Part 12 must also be scored "unacceptable."

☐ A 12 Acceptable standard:

- ☐ Includes **appropriate undercut** and backcut are completed from high side, are slightly off level, depth of the undercut between 25% and 40% of the tree diameter
- ☐ Undercut is cleaned out
- ☐ The cuts forming the opening of the undercut are 33% to 50% the length of the topcut
- ☐ Backcut is slightly above the undercut, slightly off level
- ☐ Holding wood is preferably maintained across the entire stump but at minimum **must be on both corners**
- ☐ Also see note 2

Items/comments

Acceptable (12):

Appropriate undercut depth and appropriate undercut:

- Determined based on timber type and region (see table below):
- If hardwoods or frozen: use conventional or pie undercuts
- All others: use Humbolt/Swanson undercuts

Unacceptable (0):

- **Three or more stumps that score 3 or less, QS/T must score this section "unacceptable"**

Anti-kickback step reference guide in relation to stump diameter

75% of the anti-kickback step must be within the preferred height tolerances, as listed in table below:

Humbolt, Swanson undercuts	Preferred anti-kickback step
Up to 36" (3' 0") diameter	.75 to 1 inch height difference
48" (4' 0") to 60" (5' 0") diameter	1.5 inch height difference
72" (6' 0") to 84" (7' 0") diameter	2 inch height difference
96" (8' 0") to 108" (9' 0") diameter	3 inch height difference
120" (10' 0") to 144" (12' 0") diameter	4 inch height difference
156" (13' 0") diameter and above	6 inch height difference
Conventional and pie (frozen wood) undercuts	Preferred anti-kickback step
Up to 14" (1' 2") diameter	.75 to 1 inch height difference
16" (1' 4") to 36" (3' 0") diameter	2 inch height difference
48" (4' 0") to 60" (5' 0") diameter	3 inch height difference
72" (6' 0") to 84" (7' 0") diameter	4 inch height difference
96" (8' 0") to 108" (9' 0") diameter	6 inch height difference
120" (10' 0") to 144" (12' 0") diameter	8 inch height difference
156" (13' 0") diameter and above	12 inch height difference