

OHLEC Field Guide

Chainsaw Field Guide		Risk
Objective <ul style="list-style-type: none"> How do I get home safely? What needs to be done? What is your desired lay? What obstacles exist and are their values high? 	Fall tree to multiple lays	Low
	Bucking on flat ground	Low
	Fall tree within 45 degrees of specific lay	Moderate
	Fall tree within 5 degrees of specific lay	High
	No safe lay	STOP Reevaluate
Hazards <ul style="list-style-type: none"> Overhead hazards Other Tree hazards in cutting area Environmental Hazards Cutting area hazards Wood Hazards – rot, cracks, live, dead, fire weakened Human factor Hazards Hung-up or storm damaged 	Static Hazards	Low
	Dynamic Hazards	High
	No Escape from Hazards	STOP Reevaluate
	<30% Fiber at Hinge	STOP Reevaluate
	Base won't support stem if cut	STOP Reevaluate
Leans (Falling) <ul style="list-style-type: none"> Side to Side Front or Back Risk of barber chair? 	Side	
	< 3 feet	Low
	3 ft. -5 ft.	Moderate
	>5 ft.	High
	Head	
	<3 ft.	Low
	>3 ft.	Moderate
	Back	
	1-2" lift to overcome	Moderate
	>2" lift to overcome	High
Binds (Bucking) <ul style="list-style-type: none"> Top/Bottom Side to side End to end Combinations 	Binds	
	Known Low release of energy	Low
	Release of energy known but may require a series of cuts	Moderate
	High release of energy expected or unknown	High
Escape paths	Angle	
	Diagonal both clear	Low
	Only 1 escape path	Moderate
	Distance from Tree	
	15ft	Low
	10ft-15ft	Moderate
	Cover <10 ft	Moderate
No Escape Path	STOP Reevaluate	
Cutting Plan <ul style="list-style-type: none"> Hinge design (80/10) Undercut Backcut Sequence of cuts Type of bucking cut Slope steepness 	Undercut/Hinge	
	Single cut undercut	Low
	Sound Fiber	Low
	Compromised Fiber	Moderate
	Double cut undercut	Moderate
	Sequence of cuts	
	All from 1 side, escape to same side	Low
	Requires moving from side to side of tree.	Moderate
	Backcut	
	Single backcut	Low
	Double cut backcut	Moderate
	>Double cut	High
Cutting plan does not meet objective and needs to be changed	STOP Reevaluate	
Cutting plan does not meet sawyers ability and qualifications	STOP Reevaluate	

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Crosscut and Ax Field Guide		Risk
Objective <ul style="list-style-type: none"> How do I get home safely? What needs to be done? What is your desired lay? What obstacles exist and are their values high? 	Fall tree in any direction	Low
	Fall tree in specific lay	Moderate
	Bucking small trees, pieces can be easily lifted and moved.	Low
	Buck large bole with pre-plan of how to move piece	Moderate
	No safe lay	STOP Reevaluate
Hazards <ul style="list-style-type: none"> Overhead hazards Other Tree hazards in cutting area Environmental Hazards Cutting area hazards Wood Hazards – rot, cracks, live, dead, fire weakened Human Factor Hazards Hung-up or storm damaged 	0-2 Individual Hazards	Low
	3-5 Individual Hazards	Moderate
	>5 Individual Hazards	High
	No Escape from Hazards	STOP Reevaluate
	<30% Fiber at Hinge	STOP Reevaluate
	Base won't support stem if cut	STOP Reevaluate
Leans (Falling) <ul style="list-style-type: none"> Side to Side Front or Back Risk of barber chair? 	Side	
	< 3 feet	Low
	3 ft. -5 ft.	Moderate
	>5 ft.	High
	Head	
	<3 ft.	Low
	3ft-6ft	Moderate
	>6 ft.	High
	Back	
	<1" lift to overcome	Moderate
>1" lift to overcome	High	
Binds (Bucking) <ul style="list-style-type: none"> Top/Bottom Side to side End to end Combinations 	Binds	
	Known low release of energy	Low
	Release of energy known but may require a series of cuts	Moderate
	High release of energy expected or unknown	High
Escape paths	Angle	
	45 degree both clear	Low
	Only 1 escape path	High
	Distance	
	15ft	Low
	10ft-15ft	Moderate
	No Escape Path	STOP Reevaluate
Cutting Plan <ul style="list-style-type: none"> Hinge design (80/10) Undercut Backcut Type and sequence of cuts Wedging Plan Chopping 	Undercut/Hinge	
	Conventional undercut	Low
	Sound Fiber	Low
	Compromised fiber	Moderate
	Weak side vertical chopping	Moderate
	Undercut-other	High
	Backcut	
	Double sawyer	Low
	Single sawyer	Moderate
	Bucking	
	Double sawyer	Low
	Single sawyer - underbucking	Moderate
Cutting height above shoulders	High	
Wedging		
Cutting plan does not meet objective	STOP Reevaluate	
Cutting plan needs to be changed	STOP Reevaluate	