

Chainsaw Field Guide		Complexity
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 any lay	Low
	Bucking or Limbing Only	Low
	Fall tree within 45 degrees of specific lay	Moderate
	Fall tree within 5 degrees of specific lay	High
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 Leaners and jack straws 	No safe lay	STOP Reevaluate
	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 Head 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 know but may require a series of cuts	Moderate
	High release of energy expected or unknown	High
Escape routes	Angle	
	45 degree both clear	Low
	Only 1 escape route	Moderate
	Distance	
	15ft	Low
10ft-15ft	Moderate	
No Escape Route	STOP Reevaluate	
Cutting Plan <ul style="list-style-type: none"> Hinge design (80/10) Undercut Back cut Sequence of cuts Type of bucking cut Slope steepness 	Undercut	
	Single cut undercut	Low
	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
	Sweep Face	High
Cutting plan does not meet objective	STOP Reevaluate	
Cutting plan needs to be changed	STOP Reevaluate	

Crosscut and Axe Field Guide		Complexity
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
	Buck small bole where piece can be easily lifted and moved.	Low
	Buck large bole with pre-plan of how to move piece	Moderate
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 Leaners and jack straws 	No safe lay	STOP Reevaluate
	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 Head 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	
Back lean on tree <12" DBH	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 know but may require a series of cuts	Moderate
	High release of energy expected or unknown	High
Escape routes	Angle	
	45 degree both clear	Low
	Only 1 escape route	High
	Distance	
	15ft	Low
10ft-15ft	Moderate	
No Escape Route	STOP Reevaluate	
Cutting Plan <ul style="list-style-type: none"> Hinge design (80/10) Undercut Back cut Type and sequence of cuts Wedging Plan Chopping 	Undercut/Hinge	
	Conventional undercut	Low
	DBH > 50% of saw length	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	