

PENNSYLVANIA SFI® IMPLEMENTATION COMMITTEE INC.

Treatment Unit Sustainability Assessment Form (TUSAF) Sustainability Assessment Key

The Sustainable Forestry Initiative® is a service of SFI, Inc.

This key can be used to help determine whether a proposed timber harvest will achieve a sustainable outcome. The sustainability key asks a series of paired questions or couplets that relate to the harvesting decisions that are being made for the stand. The key provides guidance by suggesting if the proposed operation will result in a potentially sustainable outcome, an uncertain outcome that should be reconsidered, or a potentially unsustainable outcome. This key is fully explained in the publication "Managing Timber to Promote Sustainable Forests: A Second-Level Course for the Sustainable Forestry Initiative of Pennsylvania".

	ltem	Description	Go to:
	1	Residual overstory canopy greater than 50%	Go to 13
	(TUSAF #4)	(Partial cut) Residual overstory canopy less than or equal to 50% (Regeneration Cut)	Go to 2
	2	Advance regeneration less than 70%	Go to 6
	(TUSAF #9)	Advance regeneration greater than or equal to 70%	Go to 3
			0-1-4
	3	Interfering plants overtopping desirable regeneration greater than or equal to 70%	Go to 4
	(TUSAF #11)	Interfering plants overtopping desirable regeneration on less than 70%	Go to 5
Regeneration		Take Course to the standard beautiful and the second beautiful and the second	I 0. 4. F
Harvest –	4	Interference treatment planned in conjunction with harvest	Go to 5
Advanced	(TUSAF #12)	Interference treatment not planned	Delay harvest. Seek assistance.
regeneration	(100AI #12)		decistaries.
present, abundant	5	Deer impact low or deer impact reduction planned (fencing or very	Treat and harvest. Follow
		aggressive hunting)	up stand development. Probably sustainable.
	(TUSAF #13, 14)	Deer impact high and no deer impact treatment planned.	Seek assistance. Will seedlings overwhelm deer?
	#13, 14)		securings overwhelm deer.
	6	One or more desirable seed source species lost or reduced in overstory to less than 15 large/30 small sawlog trees per acre with strong crowns	Delay harvest. Seek assistance.
		Desirable seed source species greater than or equal to 15 large/30 small	Go to 7
	(TUSAF # 8)	sawlog trees with strong crowns retained	
	7	Fern ≥ 30% on 30% of plots or more	Go to 10
	(TUSAF # 10)	= 000/ 11 1 200/ 11 11	Go to 8
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Dogonoration	8	Grass/sedge ≥ 30% on 30% of plots or more	Go to 10
Regeneration Harvest –	(TUSAF # 10)	Grass/sedge < 30% on at least 70% of plots	Go to 9
Advanced	9	Woody interference ≥ 30% on 30% of plots or more	Go to 10
regeneration	(TUSAF # 10)	Woody interference < 30% on at least 70% of plots	Go to 10
	(TUSAF # 10)		1
inadequate			
inadequate	10	Any interference ≥ 30% on 30% of plots or more	Go to 11
inadequate	10 (TUSAF # 11)	Any interference ≥ 30% on 30% of plots or more Any interference < 30% on at least 70% of plots	Go to 11 Go to 12
inadequate			I .

	12	Deer impact lo hunting)	w or deer impact red	uction planned (fencing	or aggressive	Consider waiting for more seedlings to develop after deer treatment.			
	(TUSAF # 13, 14)	Deer impact hi	gh and no deer impa	ct treatment planned.		Delay harvest. Scarce seedlings likely to disappear after harvest. Seek assistance.			
	,,								
Partial Cut –	13			species lost or reduced in	n overstory to	Delay harvest. Seek			
Check seed source	(TUSAF # 8)	Desirable seed	arge/30 small sawlog source species (greater ar acre with strong cr	ter than or equal to 15 la	arge/30 small	assistance. Go to 14			
	,								
	1.4	A DDLL .	akaina di antinana and	(loss than ay savel to 10	(۱۹۰۸ - ۱	Data of manufactions			
Partial Cut – Check residual stand	14	Average DBH r	etained or increased	(less than or equal to 10	% reduction)	Rate of growth likely sustained or improved. Go to 15.			
	(TUSAF # 6)	Average DBH r	educed			Rate of growth likely slowed. Go to 15.			
	15		sustained or improve ess than or equal to 3	ed by harvest, average DE 10% reduction)	3H retained	Future valuable harvest probable. Probably sustainable.			
		Timber quality by more than 1		ed by harvest, average DE	BH reduced	Future valuable harvest probable, though later than with diameter improvement. Probably sustainable.			
	(TUSAF # 7, 6, 8)	Timber quality reduced by best trees removed and/or damage to residual, greater than or equal to 15 large/30 small strong-crowned trees of desirable species per acre retained as seed source.				Future valuable harvest at risk. Consider regenerating.			
END									
KEY Probably sustainable CAUTION – Reconsider STOP! Seek assistance!									
Probab	ity sustai	Hable	CAUTION	- Reconsider		: Seek assistance:			

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Pennsylvania Sustainable Forestry Initiative®