Worksheet for North Idaho Grand Fir (NIGF) Forest Type - Option 1 (60/30)

	E												_	_	
	Stream Length Surveyed			= 200 X			25' (inner zone width)		=	0.115		Acres			
								43560 (s	q. i	ft. per acre)					
	NIGF														Retained RS
	RS/Tree				RS value					RS per DBH			ree RS		per DBH
DBH Class	values		Acres		per tree		Trees S	urveyed		Class			lue		Class
4-7.9	0.097	÷	0.115		0.845		<u> </u>	7		5.915	-	cut 1	0.845		5.070
8-11.9	0.209	÷	0.115	=	1.821		#1	5	=	9.104	-	cut 1	1.821	=	7.283
12-15.9	0.347	÷		=		Χ		4	=	12.092	-			=	12.092
16-19.9	0.506	÷	0.115	=	4.408	Χ	_	3	=	13.225	-			=	13.225
20-23.9	0.683	÷	0.115	=	5.950	Χ		2	=	11.901	-	cut 1	5.950	=	5.950
24-27.9	0.878	÷	0.115	=	7.649	Χ		1	=	7.649	-			=	7.649
28 +	1.088	÷	0.115	=	9.479	Χ		1	=	9.479	-			=	9.479
							•	Total RS *	=	69.36		Retaine	ed RS**	=	60.75
								(sum of	RS/	DBH Class)		(sum of	f Retaine	ı d R	S/DBH Class
		Length	n Surveyed	= [200	Χ				one width) ft. per acre)	=		0.23	Acr	es
	NIGF							43560 (s	q. 1	- 1 /					
								43560 (s	q. 1	, ,					
_	RS/Tree				RS value			·	q. 1	RS per DBH			ree RS		per DBH
	values		Acres		per tree		Trees S	urveyed		RS per DBH Class		Va	lue		per DBH Class
4-7.9	values 0.097	÷	0.230		per tree <i>0.423</i>		Trees S	urveyed		RS per DBH Class 2.958	_	Va	o. 845	=	per DBH Class 2.113
4-7.9 8-11.9	values 0.097 0.209	÷	0.230 0.230		per tree 0.423 0.910	Χ	Trees S	urveyed		RS per DBH Class 2.958 9.104	-	Va	olue 0.845	= =	per DBH Class 2.113
4-7.9 8-11.9 12-15.9	values 0.097 0.209 0.347		0.230 0.230		per tree 0.423 0.910 1.512	X X	Trees S	urveyed		RS per DBH Class 2.958 9.104 15.115	- -	Va	o. 845		per DBH Class 2.113 5.462
8-11.9 12-15.9 16-19.9	values 0.097 0.209 0.347 0.506	÷	0.230 0.230	=	per tree 0.423 0.910	X X	Trees S	urveyed 7	= = =	RS per DBH Class 2.958 9.104 15.115 15.429	- - -	va cut 2 cut 4	0.845 3.642	=	per DBH Class 2.113 5.462 9.069
4-7.9 8-11.9 12-15.9	values 0.097 0.209 0.347	÷	0.230 0.230 0.230	= = =	per tree 0.423 0.910 1.512	X X X	Trees S	urveyed 7 10 10	= = =	RS per DBH Class 2.958 9.104 15.115		va cut 2 cut 4 cut 4	0.845 3.642 6.05 8.82	=	per DBH Class 2.113 5.462 9.069 6.612
4-7.9 8-11.9 12-15.9 16-19.9	values 0.097 0.209 0.347 0.506	÷ ÷	0.230 0.230 0.230 0.230	= = = =	per tree 0.423 0.910 1.512 2.204	X X X X	Trees S	urveyed 7 10 10 7	= = =	RS per DBH Class 2.958 9.104 15.115 15.429		cut 2 cut 4 cut 4 cut 4	0.845 3.642 6.05 8.82	= = = =	per DBH Class 2.113 5.462 9.069 6.612 2.973
4-7.9 8-11.9 12-15.9 16-19.9 20-23.9	values 0.097 0.209 0.347 0.506 0.683	÷ ÷ ÷	0.230 0.230 0.230 0.230 0.230 0.230	= = = =	per tree 0.423 0.910 1.512 2.204 2.975	X X X X	Trees S	urveyed 7 10 10 7 3	= = =	RS per DBH Class 2.958 9.104 15.115 15.429 8.925		cut 2 cut 4 cut 4 cut 4 cut 4	0.845 3.642 6.05 8.82 5.950	= = = =	per DBH Class 2.113 5.462 9.069 6.612 2.973 3.825
4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	values 0.097 0.209 0.347 0.506 0.683 0.878	÷ ÷ ÷	0.230 0.230 0.230 0.230 0.230 0.230	= = = =	per tree 0.423 0.910 1.512 2.204 2.975 3.825	X X X X	Trees S	urveyed 7 10 10 7 3 2	= = = =	RS per DBH Class 2.958 9.104 15.115 15.429 8.925 7.649	- - - -	va cut 2 cut 4 cut 4 cut 4 cut 4 cut 2 cut 1	0.845 3.642 6.05 8.82 5.950 3.825	= = = =	-
4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	values 0.097 0.209 0.347 0.506 0.683 0.878	÷ ÷ ÷	0.230 0.230 0.230 0.230 0.230 0.230	= = = =	per tree 0.423 0.910 1.512 2.204 2.975 3.825	X X X X	Trees S	urveyed 7 10 10 7 3 2 1 Total RS *	= = = = = = =	RS per DBH Class 2.958 9.104 15.115 15.429 8.925 7.649 4.739	- - - -	va cut 2 cut 4 cut 4 cut 2 cut 1 cut 1 Retaine	0.845 3.642 6.05 8.82 5.950 3.825 4.739 ed RS**	= = = = = =	per DBH Class 2.113 5.462 9.069 6.612 2.973 3.825 0.000
4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9 28 +	values 0.097 0.209 0.347 0.506 0.683 0.878 1.088	÷ ÷ ÷ ÷ ÷	0.230 0.230 0.230 0.230 0.230 0.230 0.230	= = = = =	per tree 0.423 0.910 1.512 2.204 2.975 3.825	X X X X X		urveyed 7 10 10 7 3 2 1 Total RS *	= = = = = = =	RS per DBH Class 2.958 9.104 15.115 15.429 8.925 7.649 4.739 63.92	- - - -	va cut 2 cut 4 cut 4 cut 2 cut 1 cut 1 Retaine	0.845 3.642 6.05 8.82 5.950 3.825 4.739 ed RS**	= = = = = =	per DBH Class 2.113 5.468 9.069 6.612 2.973 3.823 0.000

INSTRUCTIONS:

- Measure "Stream Length Surveyed" by measuring the length (in feet) of the stream that is adjacent to the Stream Protection Zone being considered for harvest. When harvesting both sides of a stream measure them seperately.
 Calculate "Acres" by multiplying the "Stream Length Surveyed" by the width of the zone being measured (25 or 50 feet) and dividing by 43,560
- 2) Calculate "Acres" by multiplying the "Stream Length Surveyed" by the width of the zone being measured (25 or 50 feet) and dividing by 43,560 square feet per acre.
- 3) Input the "Acres" number into each of the lines in the table under the "Acres" category.
- 4) Divide the "NIGF RS/ac values" by the "Acres" in each row this will give you a "Relative Stocking value per tree" which you fill in under that category.
- 5) Count the number of live trees in each "Diameter Breast Height Class," and fill in the number on the table according to the DBH Class under the "Trees Surveyed" column.
- 6) In each row multiply "RS value per tree" X "Trees Surveyed" this gives you "RS per DBH Class," fill in those values under the column "RS per DBH Class."
- 7) Add the values in the "RS per DBH Class" column this will give you your "Total RS". NOTE: If this number is less than the minimum requirement for tree retention under the FPA rules you may not harvest any trees in that zone.
- 8) Using the "RS value per tree" numbers you may now calculate how many trees from each "DBH Class" may be harvested while ensuring that the "Retained RS" will be greater than or equal to the minimum RS required for that zone.

Worksheet for North Idaho Grand Fir (NIGF) Forest Type - Option 1 (60/30)

INNER ZON	E		_									
	Stream I	Length Su	ırveyed =	X	25' (inner zone width)		= 4	Acres				
			_		43560 (sq. ft. per acre)							
								Retained RS				
	NIGF RS/ac	;		RS value		RS per DBH	Cut Tree RS	per DBH				
DBH Class	values	Α	Acres	per tree	Trees Surveyed	Class	Value	Class				
4-7.9	0.097	÷	=	X	=		-	=				
8-11.9	0.209	÷	=	X	=		-	=				
12-15.9	0.347	÷	=	X	=		-	=				
16-19.9	0.506	÷	=	X	=		-	=				
20-23.9	0.683	÷	=	X	=		-	=				
24-27.9	0.878	÷	=	X	=		-	=				
28 +	1.088	÷	=	X	=		-	=				
					Total RS * =		Retained RS**	=				
					(sum of RS/DBH Class)		(sum of Retained	d RS/DBH Class)				
* Total RS must be > 60 or no inner zone harvest may occur												
** Retained	** Retained RS must be > or = 60 RS following harvest											
OUTER ZON	IE	_	_									
	Stream I	Length Su	ırveyed =	X	50' (outer zone width)		=	Acres				
					43560 (sq. ft. per acre)							
								Retained RS				
	NIGF RS/ac	;		RS value		RS per DBH	Cut Tree RS	per DBH				
DBH Class	values	Α	Acres	per tree	Trees Surveyed	Class	Value	Class				
4-7.9	0.097	÷	=	X	=		-	=				
8-11.9	0.209	÷	=	X	=		-	=				
12-15.9	0.347	÷	=	X	=		-	=				
16-19.9	0.506	÷	=	X	=		-	=				
20-23.9	0.683	÷	=	X	=		-	=				
24-27.9	0.878	÷	=	X	=		-	=				
28 +	1.088	÷	=	X	=		-	=				
					Total RS * =		Retained RS**	=				
					(sum of RS/DBH Class)		(sum of Retained	d RS/DBH Class)				
* Total RS m	nust be > 30	or no ou	iter zone har	vest may occu	r							

INSTRUCTIONS:

- 1) Measure "Stream Length Surveyed" by measuring the length (in feet) of the stream that is adjacent to the Stream Protection Zone being considered for harvest. When harvesting both sides of a stream measure them separately.
- 2) Calculate "Acres" by multiplying the "Stream Length Surveyed" by the width of the zone being measured (25 or 50 feet) and dividing by 43.560 square feet per acre.
- 3) Input the "Acres" number into each of the lines in the table under the "Acres" category.

** Retained RS must be > or = 30 RS following harvest

- 4) Divide the "NIGF RS/ac values" by the "Acres" in each row this will give you a "Relative Stocking value per tree" which you fill in under that category.
- 5) Count the number of live trees in each "Diameter Breast Height Class", fill in the number on the table according to the DBH Class under the "Trees Surveyed" column.
- 6) In each row multiply "RS value per tree" X "Trees Surveyed" this gives you "RS per DBH Class", fill in those values under the column "RS per DBH Class".
- 7) Add the values in the "RS per DBH Class" column this will give you your "Total RS". NOTE: If this number is less than the minimum requirement for tree retention under the FPA rules you may not harvest any trees in that zone.
- 8) Using the "RS value per tree" numbers you may now calculate how many trees from each "DBH Class" may be harvested while ensuring that the "Retained RS" will be greater than or equal to the minimum RS required for that zone.

Worksheet for North Idaho Grand Fir (NIGF) Forest Type - Option 2 (60/10)

INNER ZON	E		_								
	Stream I	ength Su	rveyed =	X	50' (inner zone width)		= 4	Acres			
					43560 (sq. ft. per acre)						
								Retained RS			
	NIGF RS/ac	;		RS value		RS per DBH	Cut Tree RS	per DBH			
DBH Class	values	A	cres	per tree	Trees Surveyed	Class	Value	Class			
4-7.9	0.097	÷	=	X	=		-	=			
8-11.9	0.209	÷	=	X	=		-	=			
12-15.9	0.347	÷	=	X	=		-	=			
16-19.9	0.506	÷	=	X	=		-	=			
20-23.9	0.683	÷	=	X	=		-	=			
24-27.9	0.878	÷	=	X	=		-	=			
28 +	1.088	÷	=	X	=		-	=			
					Total RS * =		Retained RS**	=			
					(sum of RS/DBH Class)		(sum of Retained	d RS/DBH Class)			
* Total RS must be > 60 or no inner zone harvest may occur											
** Retained	RS must be	> or = 60	RS followin	g harvest							
OUTER ZON	IE										
	Stream l	ength Su	rveyed =	X	25' (outer zone width)		= 4	Acres			
					43560 (sq. ft. per acre)						
								Retained RS			
	NIGF RS/ac	:		RS value		RS per DBH	Cut Tree RS	per DBH			
DBH Class	values	Α	cres	per tree	Trees Surveyed	Class	Value	Class			
4-7.9	0.097	÷	=	X	=		-	=			
8-11.9	0.209	÷	=	X	=		-	=			
12-15.9	0.347	÷	=	X	=		-	=			
16-19.9	0.506	÷	=	X	=		-	=			
20-23.9	0.683	÷	=	X	=		-	=			
24-27.9	0.878	÷	=	X	=		-	=			
28 +	1.088	÷	=	X	=		-	=			
					Total RS * =		Retained RS**	=			
					(sum of RS/DBH Class)		(sum of Retained	d RS/DBH Class)			
* Total RS must be > 10 or no outer zone harvest may occur											

INSTRUCTIONS:

- 1) Measure "Stream Length Surveyed" by measuring the length (in feet) of the stream that is adjacent to the Stream Protection Zone being considered for harvest. When harvesting both sides of a stream measure them separately.
- 2) Calculate "Acres" by multiplying the "Stream Length Surveyed" by the width of the zone being measured (25 or 50 feet) and dividing by 43.560 square feet per acre.
- 3) Input the "Acres" number into each of the lines in the table under the "Acres" category.

** Retained RS must be > or = 10 RS following harvest

- 4) Divide the "NIGF RS/ac values" by the "Acres" in each row this will give you a "Relative Stocking value per tree" which you fill in under that category.
- 5) Count the number of live trees in each "Diameter Breast Height Class", fill in the number on the table according to the DBH Class under the "Trees Surveyed" column.
- 6) In each row multiply "RS value per tree" X "Trees Surveyed" this gives you "RS per DBH Class", fill in those values under the column "RS per DBH Class".
- 7) Add the values in the "RS per DBH Class" column this will give you your "Total RS". NOTE: If this number is less than the minimum requirement for tree retention under the FPA rules you may not harvest any trees in that zone.
- 8) Using the "RS value per tree" numbers you may now calculate how many trees from each "DBH Class" may be harvested while ensuring that the "Retained RS" will be greater than or equal to the minimum RS required for that zone.