Worksheet for Central Idaho Grand Fir (CIGF) Forest Type - Option 1 (60/30)

Stream Length Surveyed = 200 X $25' (inner zone width) =0.115 AcresCIGFRetained RSRS/TreeRS valueRS per DBHCut Tree RSper DBHBH ClassValueClassValueClass4-7.90.1130.1150.984X76.891cut 10.9845.9078-11.90.2440.1155.286X3.528X414.11312-15.90.4050.1155.9073.528X414.11316-19.90.590.1155.942X3.528X4410.629cut 10.984=14.11312-15.90.405=14.11312-21.90.7976.943X22.00028 + 1.270.115$	INNER ZONE							<u> </u>			/1		•		•	
CIGF RS/Tree RS value RS per DBH Cut Tree RS per DBH 18H Class values Acres per tree Trees Surveyed Class Value Class 47-9 0.113 $\hat{-}$ 0.115 $=$ 0.954 X $\hat{-}$ $=$ 6.871 $-$ wit 0.954 $\hat{-}$ $=$ 10.629 $-$ wit 0.954 $\hat{-}$ 5.957 8-11.9 0.244 $\hat{+}$ 0.115 $=$ 5.927 X $\hat{-}$ $=$ 10.629 $ =$ 14.113 $=$ $=$ 14.113 $=$ $=$ 14.113 $=$ $=$ 16.420 20-23.9 0.797 $\hat{-}$ 0.115 $=$ 5.927 X $\hat{2}$ $=$ 10.642 $=$ 0.600 $=$ 0.000 $=$ 0.000 $=$ 0.000 $=$ 0.000 $=$ 0.000 $=$ 10.64 1 1 10.64 1 1 10.64 1 1 10.64 1 1 10.64		Stream L	ength.	Surveyed	= [200	Х					=		0.115	Acre	25
BH Class values Acres per tree Trees Surveyed Class Value Class 4-7.9 0.113 + 0.115 = 0.984 X 7 = 6.891 - out 1 0.994 = 5.907 8-11.9 0.244 + 0.115 = 2.126 X 5 = 10.629 - out 1 2.126 S.505 12-15.9 0.405 + 0.115 = 5.927 X 4 = 14.113 - = 14.113 16-19.9 0.59 + 0.115 = 6.943 X 2 = 15.877 - out 1 6.943 S 2 = 16.943 Cut 1 6.943 X 1 = 11.064 - = 11.064 24-27.9 1.024 + 0.115 = 9.921 X 1 1 1 6.943 X 1 1 0		CIGF							`	•	1 /					Retained RS
BH Class values Acres per tree Trees Surveyed Class Value Class 47.9 0.113 + 0.115 = 0.954 X 7 = 6.891 - out 1 0.954 = 5.907 8-11.9 0.244 + 0.115 = 2.166 X 5 = 10.629 - out 1 2.126 S.503 12-15.9 0.405 + 0.115 = 5.528 X 4 = 14.113 - = 14.113 16-19.9 0.59 + 0.115 = 5.921 X 2 = 15.827 - out 1 6.943 S 2 = 15.827 - out 1 6.943 S 2 2.527 - out 1 6.943 X 1 = 11.064 - = 11.064 24-27.9 1.024 + 0.115 N1064 X 1		RS/Tree				RS value					RS per DBH		Cut T	ree RS		per DBH
8-11.9 0.244 \div 0.115 $=$ 2.126 X 5 $=$ 10.629 $ eet$ 2.126 $=$ 2.533 12-15.9 0.405 \div 0.115 $=$ 5.528 X 4 $=$ 14.113 $ =$ 14.113 16-19.9 0.59 \div 0.115 $=$ 6.443 X 2 $=$ 15.827 $ eet$ 16.442 $=$ 6.443 X 2 $=$ 16.442 $=$ 6.443 2 $=$ 15.827 $ eet$ 16.443 $=$ 6.443 2 $=$ 15.420 $ =$ 6.443 2 $=$ 15.420 $ =$ 6.443 2 $=$ 15.420 $ =$ 6.443 2 $=$ 16.443 $=$ 16.443 $=$ 16.443 $=$ 16.443 $=$ 16.443 $=$ 10.664 $ =$ 10.664 $ =$ 10.664 $ =$ 10.664 $ =$	DBH Class	values		Acres		per tree		Trees Surveyed			Class		Va	lue		Class
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4-7.9	0.113	÷	0.115	=	0.984	Х		7	=	6.891	-	cut 1	0.984	=	5.907
16-19.9 0.59 \div 0.115 $=$ 5.140 X S $=$ 15.420 $ =$ 15.420 20-23.9 0.797 \div 0.115 $=$ 6.943 X 2 $=$ 13.587 $ act 1$ 6.943 $=$ 6.943 24-27.9 1.024 \div 0.115 $=$ 8.921 X 0 $=$ 0.000 $ =$ 0.000 28 + 1.27 \div 0.115 $=$ 11.064 X I $=$ I I $=$ I	8-11.9	0.244	÷	0.115	=	2.126	Х	H.	5	=	10.629	-	cut 1	2.126	=	8.503
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12-15.9	0.405	÷	0.115	=	<i>3.528</i>	Х	- [[[]] ·	4	=	14.113	-			=	14.113
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16-19.9	0.59	÷	0.115	=	5.140	Х		3	=	15.420	-			=	15.420
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20-23.9	0.797	÷	0.115	=	6.943	Х		2	=	13.887	-	cut 1	6.943	=	6.943
$Total RS * = \boxed{72.00}$ $(sum of RS/DBH Class)$ $(sum of RS/DBH Class)$ $(sum of RS/DBH Class)$ $(sum of Retained RS^{*} = \underbrace{61.95}$ $(sum of Retained RS^{*} = \underbrace{61.95}$ $(sum of RES/DBH Class)$ $(sum of Retained RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of RS/DBH Class)$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > or = 60 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retained RS must be > 0 RS following harvest$ $(sum of Retai$	24-27.9	1.024	÷	0.115	=	8.921	Х	(2	=	0.000	-			=	0.000
	28 +	1.27	÷	0.115	=	11.064	Х		1	=	11.064	-			=	11.064
Total RS must be > 60 or no inner zone harvest may occur * Retained RS must be > or = 60 RS following harvest PUTER ZONE CIGF RS/Tree RS/Tree RS values 47.9 0.113 \div 0.230 = 0.492 X 47.9 0.113 \div 0.230 = 0.492 X 47.9 10 = 10.629 - cat 2 0.984 = 2.461 8-11.9 0.59 \div 0.230 = 1.764 X 47.9 10 = 15.878 - cat 2 0.984 = 5.140 20-23.9 0.797 \div 0.230 = 3.472 X 44.61 X 44.61 = 4.461 24.27.9 1.024 \div 0.230 = 4.461 X 24.27.9 1.024 \div 0.230 = 5.552 X 4.61 X 4.61 X 4.62 = 8.921 - cat 1 4.461 = 4.461 28 + 1.27 \div 0.230 = 5.552 X 1 = 5.552 - cat 1 5.552 = 0.000 Total RS * = 70.24 Retained RS** = 30.73								Total RS	*	=	72.00		Retaine	ed RS**	=	61.95
* Retained RS must be > or = 60 RS following harvest Stream Length Surveyed = 200 X $50' (outer zone width) / 43560 (sq. ft. per acre) e Retained RS Right Class Stream Length Surveyed = 200 X 50' (outer zone width) / 43560 (sq. ft. per acre) Retained RS RS/Tree RS value Retained RS RS/Tree RS value Retained RS 4-7.9 0.113 0.250 0.492 X 7 = 3.446 cut 2 0.984 = 2.461 8-7.79 0.113 0.250 0.492 X 7 = 3.446 cut 2 0.984 = 2.461 8-7.9 0.113 0.250 0.492 X 7 = 3.446 cut 2 0.984 = 2.461 8-10.495 0.250 0.492 X 7 = 3.446 cut 2 0.984 = 2.461 8-10.495 0.250 0.492 $								(sum c	of I	RS/	DBH Class)		(sum of	Retaine	ed RS	S/DBH Class)
UTER ZONE Stream Length Surveyed = 200 X $50' (outer zone width) = 10.25$ Acres Retained RS CIGF Retained RS RS/Tree RS value RS per DBH Cut Tree RS per DBH BH Class values Acres per tree Trees Surveyed Class Value Class 4-7.9 0.113 \div 0.230 = 0.492 X 7 = 3.446 - cut 2 0.984 = 2.461 8-11.9 0.244 \div 0.230 = 1.063 X 10 = 10.629 cut 4 4.251 = 6.377 12-15.9 0.405 \div 0.230 = 2.570 X 6 = 15.420 cut 4 4.251 6.377 16-19.9 0.59 \div 0.230 = 3.472 X 3 = 0.461 X 2 6.943 = 3.472 20-23.9 0.797 \div 0.230 = 3.472 X 3 = 10.415 - cut 2 6.943 = 3.472 2.427.9 1.024 \div 0.230	* Total RS mu	ıst be > 60	or no	inner zone	e ha	rvest may oc	cui	r								
Stream Length Surveyed $=$ 200 X $\frac{50' (outer zone width)}{43560 (sq. ft. per acre)}$ $=$ 0.23 AcresREJTreeRS valueRS per DBHCut Tree RSper DBHBH ClassValuesAcresper treeTrees SurveyedClassValueClass4-7.90.113 \div 0.230 $=$ 0.492X 7 $=$ 3.446 $ cut 2$ 0.984 $=$ 2.461 8-11.90.244 \div 0.230 $=$ 1.065 X 10 $=$ 10.629 $ cut 4$ 4.251 $=$ 6.377 12-15.90.405 \div 0.230 $=$ 2.570 X 6 $=$ 15.878 $ cut 4$ 4.251 $=$ 6.377 12-15.90.405 \div 0.230 $=$ 2.570 X 6 $=$ 15.420 $ cut 4$ 10.3 $=$ 5.140 20-23.90.797 \div 0.230 $=$ 3.472 X 3 $=$ 10.415 $ cut 1$ 4.461 $=$ 4.461 24-27.9 1.024 \div 0.230 $=$ 5.532 X 1 $=$ 5.532 $ cut 1$ 5.532 $=$ 0.000 Total RS * $=$ 70.24 $Retained RS^**$ $=$ 30.73	** Retained F	RS must be	e > or =	= 60 RS foll	owi	ng harvest										
A3560 (sq. ft. per acre)AcresRS valueRetained RS per DBHBH ClassvaluesAcresper treeTrees SurveyedClassValueClass4-7.90.113 \div 0.230=0.492X7=3.446-cut 20.984=2.4618-11.90.244 \div 0.250=1.065X10=10.629-cut 44.251=6.37712-15.90.405 \div 0.230=1.764X9=15.878-cut 410.3=5.14020-23.90.797 \div 0.230=3.472X3=10.415-cut 26.943=3.47224-27.91.024 \div 0.230=3.472X3=10.415-cut 410.3=5.14028 +1.27 \div 0.230=3.472X3=10.415-cut 14.4614.46128 +1.27 \div 0.230=5.552X1=5.532-cut 15.532=0.000Total RS * $=$ 70.24Retained RS** $=$ 30.73	OUTER ZONE				r									·	n	
CIGF RS/TreeRS valueRS per DBHCut Tree RS $Cut Tree RSper DBHBH ClassValuesAcresper treeTrees SurveyedClassValueClass4-7.90.113\div0.230=0.492X7=3.446-cut 20.984=2.4618-11.90.244\div0.230=1.063X10=10.629-cut 44.251=6.37712-15.90.405\div0.230=1.764X9=15.878-cut 47.06=8.82116-19.90.59\div0.230=2.570X6=15.420-cut 410.3=5.14020-23.90.797\div0.230=3.472X3=10.415-cut 26.943=3.47224-27.91.024\div0.230=5.552X128.921-cut 14.4614.46128 +1.27\div0.230=5.552X125.552-cut 15.5520.000Total RS *=70.24Retained RS**=30.73$		Stream L	ength	Surveyed	=	200	Х					=		0.23	Acre	es
RS/TreeRS valueRS per DBHCut Tree RSper DBH $BH Class$ valuesAcresper treeTrees SurveyedClassValueClass $4-7.9$ 0.113 \div 0.230 $=$ 0.492X7 $=$ 3.446 $-$ cut 20.984 $=$ 2.461 $8-11.9$ 0.244 \div 0.230 $=$ 1.063X10 $=$ 10.629 $-$ cut 44.251 $=$ 6.37712-15.90.405 \div 0.230 $=$ 1.764X9 $=$ 15.878 $-$ cut 47.06 $=$ 8.82116-19.90.59 \div 0.230 $=$ 2.570X6 $=$ 15.420 $-$ cut 26.943 $=$ 5.14020-23.90.797 \div 0.230 $=$ 3.472X 3 $=$ 10.415 $-$ cut 26.943 $=$ 3.47224-27.91.024 \div 0.230 $=$ 4.461X 2 $=$ 8.921 $-$ cut 14.461 $=$ 4.46128 +1.27 \div 0.230 $=$ 5.532X1 $=$ 5.532 $-$ cut 15.532 $=$ 0.000Total RS * $=$ 70.24Retained RS** $=$ 30.73								43560	(s	q. f	t. per acre)					
BH ClassvaluesAcresper treeTrees SurveyedClassValueClass $4-7.9$ 0.113 \div 0.230 $=$ 0.492 X 7 $=$ 3.446 $ cut 2$ 0.984 $=$ 2.461 $8-11.9$ 0.244 \div 0.230 $=$ 1.063 X 10 $=$ 10.629 $ cut 4$ 4.251 $=$ 6.377 $12-15.9$ 0.405 \div 0.230 $=$ 1.764 X 9 $=$ 15.878 $ cut 4$ 7.06 $=$ 8.821 $16-19.9$ 0.59 \div 0.230 $=$ 2.570 X 6 $=$ 15.420 $ cut 4$ 10.3 $=$ 5.140 $20-23.9$ 0.797 \div 0.230 $=$ 3.472 X 3 $=$ 10.415 $ cut 2$ 6.943 $=$ 3.472 $24-27.9$ 1.024 \div 0.230 $=$ 4.461 X 2 $=$ 8.921 $ cut 1$ 4.461 $=$ 4.461 $28 +$ 1.27 \div 0.230 $=$ 5.532 X 1 $=$ 5.532 $ cut 1$ 5.532 $=$ 0.000 Total RS * $=$ 70.24 Retained RS** $=$ 30.73																
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8-11.9 0.244 \div 0.230 $=$ 1.063 X 10 $=$ 10.629 $ cut$ 4 4.251 $=$ 6.377 $12-15.9$ 0.405 \div 0.230 $=$ 1.764 X 9 $=$ 15.878 $ cut$ 4 7.06 $=$ 8.821 $16-19.9$ 0.59 \div 0.230 $=$ 2.570 X 6 $=$ 15.420 $ cut$ 4 10.3 $=$ 5.140 $20-23.9$ 0.797 \div 0.230 $=$ 3.472 X 3 $=$ 10.415 $ cut$ 2 6.943 $=$ 3.472 $24-27.9$ 1.024 \div 0.230 $=$ 4.461 X 2 $=$ 8.921 $ cut$ 1 4.461 $=$ 4.461 28 + 1.27 \div 0.230 $=$ 5.532 X 1 $=$ 5.532 $ cut$ 1 5.532 $=$ 0.000 Total RS * $=$ 70.24 Retained RS** $=$ 30.73							V		_							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$												-				
$16-19.9$ 0.59 \div 0.230 $=$ 2.570 X 6 $=$ 15.420 $ cut$ 4 10.3 $=$ 5.140 $20-23.9$ 0.797 \div 0.230 $=$ 3.472 X 3 $=$ 10.415 $ cut$ 2 6.943 $=$ 3.472 $24-27.9$ 1.024 \div 0.230 $=$ 4.461 X 2 $=$ 8.921 $ cut$ 1 4.461 $=$ 4.461 28 + 1.27 \div 0.230 $=$ 5.532 X 1 $=$ 5.532 $=$ 0.000 Total RS * $=$ 70.24 Retained RS** $=$ 30.73												-				
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$28 + 1.27 \div 0.230 = 5.532 X \qquad 1 = 5.532 - cut 1 5.532 = 0.000$ Total RS * = 70.24 Retained RS** = 30.73								- 11.1				-				
Total RS * = 70.24 Retained RS** = 30.73								11				-				
	28 +	1.27	÷	0.230	=	5.532	Х			r		-			_	
(sum of RS/DBH Class) (sum of Retained RS/DBH Class)										L						
								•	of I	RS/I	DBH Class)		(sum of	Retaine	ed RS	5/DBH Class)
Total RS must be > 30 or no outer zone harvest may occur						•	ccu	r								
* Retained RS must be > or = 30 RS following harvest NSTRUCTIONS:	ITT Retained F															

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 seperately. 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

square feet per acre.

3) Input the "Acres" number into each of the lines in the table under the "Acres" category.

4) Divide the "CIGF 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.

INNER ZON	E			_					
	Stream I	Lengtl	h Surveyed =		Х	25' (inner zone width)		=	Acres
						43560 (sq. ft. per acre)			
									Retained RS
	CIGF RS/ac	:		RS value			RS per DBH	Cut Tree RS	per DBH
DBH Class	values		Acres	per tree		Trees Surveyed	Class	Value	Class
4-7.9	0.113	÷	=		Х	=		-	=
8-11.9	0.244	÷	=		Х	=		-	=
12-15.9	0.405	÷	=		Х	=		-	=
16-19.9	0.59	÷	=		Х	=		-	=
20-23.9	0.797	÷	=		Х	=		-	=
24-27.9	1.024	÷	=		Х	=		-	=
28 +	1.27	÷	=		Х	=		-	=
						Total RS * =		Retained RS**	=
						(sum of RS/DBH Class)		(sum of Retaine	d RS/DBH Class)
* Total RS m	nust be > 60	or no	o inner zone ha	arvest may c	occu	r			
** Retained	l RS must be	e > or	= 60 RS follow	ing harvest					
OUTED TO									
OUTER ZON	IE								
		Lengtl	h Surveyed =		X	50' (outer zone width)		=	Acres
OUTER ZON		Lengtl	h Surveyed =		x	50' (outer zone width) 43560 (sq. ft. per acre)		=	Acres
OUTER ZON		Lengtl	h Surveyed =]×			=	Acres Retained RS
OUTER ZON			h Surveyed =	RS value] x		RS per DBH	= Cut Tree RS	
DBH Class	Stream I		h Surveyed = Acres	RS value per tree]×		RS per DBH Class		Retained RS
	Stream I CIGF RS/ac] × 	43560 (sq. ft. per acre) Trees Surveyed	-	Cut Tree RS	Retained RS per DBH
DBH Class	Stream I CIGF RS/ac values	;	Acres			43560 (sq. ft. per acre) Trees Surveyed	-	Cut Tree RS Value	Retained RS per DBH Class
DBH Class 4-7.9	Stream I CIGF RS/ac values 0.113	÷	Acres =		X	43560 (sq. ft. per acre) Trees Surveyed	-	Cut Tree RS Value	Retained RS per DBH Class =
DBH Class 4-7.9 8-11.9	Stream I CIGF RS/ac values 0.113 0.244	÷	Acres = =		X X	43560 (sq. ft. per acre) Trees Surveyed = = =	-	Cut Tree RS Value	Retained RS per DBH Class = =
DBH Class 4-7.9 8-11.9 12-15.9	Stream I CIGF RS/ac values 0.113 0.244 0.405	÷ ÷	Acres = = =		× × ×	43560 (sq. ft. per acre) Trees Surveyed = = = =	-	Cut Tree RS Value	Retained RS per DBH Class = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9	Stream I CIGF RS/ac values 0.113 0.244 0.405 0.59	÷ ÷ ÷	Acres = = = =		X X X X	43560 (sq. ft. per acre) Trees Surveyed = = = = =	-	Cut Tree RS Value - - -	Retained RS per DBH Class = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9	Stream I CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797	÷ ÷ ÷	Acres = = = = =		× × × × ×	43560 (sq. ft. per acre) Trees Surveyed = = = = =	-	Cut Tree RS Value - - -	Retained RS per DBH Class = = = = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	Stream I CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797 1.024	÷ ÷ ÷	Acres = = = = = = = = = = = = = = = = = = =		× × × × × ×	43560 (sq. ft. per acre) Trees Surveyed = = = = = = = =	-	Cut Tree RS Value - - -	Retained RS per DBH Class = = = = = = = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	Stream I CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797 1.024	÷ ÷ ÷	Acres = = = = = = = = = = = = = = = = = = =		× × × × × ×	43560 (sq. ft. per acre) Trees Surveyed = = = = = = = = = =	-	Cut Tree RS Value	Retained RS per DBH Class = = = = = = = = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9 28 +	Stream I CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797 1.024 1.27	÷ ÷ ÷	Acres = = = = = = = = = = = = = = = = = = =	per tree		43560 (sq. ft. per acre) Trees Surveyed = = = = = = Total RS * = (sum of RS/DBH Class)	-	Cut Tree RS Value	Retained RS per DBH Class = = = = = = = = = = = = =

Worksheet for Central Idaho Grand Fir (CIGF) Forest Type - Option 1 (60/30)

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 seperately.

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 "CIGF 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.

INNER ZON	E				_				
	Stream	Lengtł	n Surveyed =		Х	50' (inner zone width)		=	Acres
						43560 (sq. ft. per acre)			
									Retained RS
	CIGF RS/ac	2		RS value			RS per DBH	Cut Tree RS	per DBH
DBH Class	values		Acres	per tree		Trees Surveyed	Class	Value	Class
4-7.9	0.113	÷	=		Х	=		-	=
8-11.9	0.244	÷	=		Х	=		-	=
12-15.9	0.405	÷	=		Х	=		-	=
16-19.9	0.59	÷	=		Х	=		-	=
20-23.9	0.797	÷	=		Х	=		-	=
24-27.9	1.024	÷	=		Х	=		-	=
28 +	1.27	÷	=		Х	=		-	=
						Total RS * =		Retained RS**	=
						(sum of RS/DBH Class)		(sum of Retaine	d RS/DBH Class)
* Total RS n	nust be > 60) or no	inner zone ha	rvest may o	ccu	r			
** Retained	RS must be	e > or	= 60 RS followi	ng harvest					
OUTER ZON	IE								
OUTER ZON		Lengtł	n Surveyed =		X	25' (outer zone width)		=	Acres
OUTER ZON		Lengtł	n Surveyed =] x	25' (outer zone width) 43560 (sq. ft. per acre)		=	Acres
OUTER ZON		Lengtł	n Surveyed =] ×			=	Acres Retained RS
OUTER ZON		-	n Surveyed =	RS value] x		RS per DBH	= Cut Tree RS	
OUTER ZON	Stream	-	n Surveyed = Acres	RS value per tree]×		RS per DBH Class		Retained RS
	Stream CIGF RS/ac	-] x 	43560 (sq. ft. per acre)	•	Cut Tree RS	Retained RS per DBH
DBH Class	Stream CIGF RS/ac values	2	Acres		_	43560 (sq. ft. per acre) Trees Surveyed	•	Cut Tree RS Value	Retained RS per DBH Class
DBH Class 4-7.9	Stream CIGF RS/ac values 0.113	÷	Acres =		<u> </u>	43560 (sq. ft. per acre) Trees Surveyed	•	Cut Tree RS Value	Retained RS per DBH Class =
DBH Class 4-7.9 8-11.9	Stream CIGF RS/ac values 0.113 0.244	÷	Acres = =		X X	43560 (sq. ft. per acre) Trees Surveyed = =	•	Cut Tree RS Value	Retained RS per DBH Class = =
DBH Class 4-7.9 8-11.9 12-15.9	Stream CIGF RS/ac values 0.113 0.244 0.405	÷ ÷	Acres = = = =		X X X X	43560 (sq. ft. per acre) Trees Surveyed = = =	•	Cut Tree RS Value	Retained RS per DBH Class = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9	Stream CIGF RS/ac values 0.113 0.244 0.405 0.59	÷ ÷ ÷	Acres = = = = =		x x x x x x	43560 (sq. ft. per acre) Trees Surveyed = = =	•	Cut Tree RS Value - - -	Retained RS per DBH Class = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9	Stream CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797	÷ ÷ ÷	Acres = = = = = = =		× × × × × × ×	43560 (sq. ft. per acre) Trees Surveyed = = = = = =	•	Cut Tree RS Value - - -	Retained RS per DBH Class = = = = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	Stream 1 CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797 1.024	÷ ÷ ÷ ÷	Acres = = = = = = = = = = = = = = = = = = =		× × × × × × ×	43560 (sq. ft. per acre) Trees Surveyed = = = = = = = =	•	Cut Tree RS Value - - - - -	Retained RS per DBH Class = = = = = = = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	Stream 1 CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797 1.024	÷ ÷ ÷ ÷	Acres = = = = = = = = = = = = = = = = = = =		× × × × × × ×	43560 (sq. ft. per acre) Trees Surveyed = = = = = = = = = =	•	Cut Tree RS Value	Retained RS per DBH Class = = = = = = = = = = =
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9 28 +	Stream 1 CIGF RS/ac values 0.113 0.244 0.405 0.59 0.797 1.024 1.27	÷ ÷ ÷	Acres = = = = = = = = = = = = = = = = = = =	per tree	x x x x x x x x x	43560 (sq. ft. per acre) Trees Surveyed = = = = = Total RS * = (sum of RS/DBH Class)	•	Cut Tree RS Value	Retained RS per DBH Class = = = = = = = = = = = = =

Worksheet for Central Idaho Grand Fir (CIGF) Forest Type - Option 2 (60/10)

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 seperately.

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 "CIGF 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.