Worksheet for Douglas-fir-Ponderosa Pine (DFPP) Forest Type - Option 1 (60/30)

INNER ZONE	Ē													_	
	Stream I	Length	n Surveyed	=	200	Χ		25' (inne	er z	one width)	=		0.115	Acı	es
				_				43560 (sq. ft. per acre)							
	DFPP														Retained RS
	RS/Tree				RS value					RS per DBH		Cut T	ree RS		per DBH
DBH Class	values		Acres		per tree		Trees S	urveyed		Class		Va	lue		Class
4-7.9	0.151	÷	0.115		1.316		##1	6	=	7.893	-	cut 1	1.316		6.578
8-11.9	0.326	÷	0.115	=	2.840	Χ		4	=	11.360	-	cut 1	2.840	=	8. <i>520</i>
12-15.9	0.54	÷	0.115	=	4.704	Χ		2	=	9.409	-			=	9.409
16-19.9	0.787	÷	0.115	=	6.856	Χ		0	=	0.000	-			=	0.000
20-23.9	1.063	÷	0.115	=	9.261	Χ		2	=	18.522	-	cut 1	9.261	=	9.26
24-27.9	1.366	÷	0.115	=	11.901	Χ		1	=	11.901	-			=	11.90
28 +	1.693	÷	0.115	=	14.749	Χ		1	=	14.749	-			=	14.749
								Total RS *	=	<i>73.83</i>		Retaine	ed RS**	=	60.42
								(sum of	RS/	/DBH Class)		(sum of	Retaine	ed F	RS/DBH Class
		e > or :	= 60 RS follo	owii	ng harvest										
** Retained OUTER ZON	E		= 60 RS follo	-		X				one width) ft. per acre)	=		0.23	Acı	res
	Stream			-		x				•	=		0.23	Acı	
OUTER ZON	Stream DFPP RS/Tree			-		X		43560 (s		ft. per acre) RS per DBH			ree RS	Acı	Retained RS per DBH
OUTER ZON OBH Class	Stream I DFPP RS/Tree values		n Surveyed Acres	= [200 RS value per tree			43560 (s	iq.	ft. per acre) RS per DBH Class	=	Va	ree RS lue		Retained RS per DBH Class
DBH Class 4-7.9	Stream DFPP RS/Tree values 0.151		Acres	= [RS value per tree	X		43560 (s urveyed	=	ft. per acre) RS per DBH Class 4.604	=		ree RS lue	=	Retained RS per DBH Class 3.289
DBH Class 4-7.9 8-11.9	DFPP RS/Tree values 0.151 0.326	Length	n Surveyed Acres	= [200 RS value per tree 0.658 1.420	X X		43560 (s	=	ft. per acre) RS per DBH Class 4.604 14.201	•	Va	ree RS lue	=	Retained RS per DBH Class 3.289
DBH Class 4-7.9	Stream DFPP RS/Tree values 0.151	Length ÷	Acres 0.230 0.230	= [200 RS value per tree 0.658 1.420 2.352	X X X		43560 (s	=	ft. per acre) RS per DBH Class 4.604	•	Va	ree RS lue	=	Retained RS per DBH Class 3.289
DBH Class 4-7.9 8-11.9	DFPP RS/Tree values 0.151 0.326	Length ÷	Acres 0.230 0.230	= [= = = =	200 RS value per tree 0.658 1.420	X X X		43560 (s urveyed 7 10 5	= =	ft. per acre) RS per DBH Class 4.604 14.201	•	Va cut 2 cut 4	ree RS lue 1.316 5.680	= = =	Retained RS per DBH Class 3.289 8.520 2.352
DBH Class 4-7.9 8-11.9 12-15.9	DFPP RS/Tree values 0.151 0.326 0.54	Length ÷ ÷	Acres 0.230 0.230 0.230 0.230	= [= = = =	200 RS value per tree 0.658 1.420 2.352	X X X		43560 (s urveyed 7 10 5	= = =	RS per DBH Class 4.604 14.201 11.761	- -	va cut 2 cut 4 cut 4	ree RS lue 1.316 5.680 9.41	= = = =	Retained RS per DBH Class 3.289 8.520 2.352 10.283
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9	DFPP RS/Tree values 0.151 0.326 0.54 0.787	÷ ÷ ÷	Acres 0.230 0.230 0.230 0.230	= [= = = = = = = = = = = = = = = = = =	200 RS value per tree 0.658 1.420 2.352 3.428	X X X X		43560 (s urveyed 7 10 5 7 2	= = = =	ft. per acre) RS per DBH Class 4.604 14.201 11.761 23.997	- -	cut 2 cut 4 cut 4 cut 4	ree RS lue 1.316 5.680 9.41 13.7	= = = =	Retained RS per DBH Class 3.289 8.520 2.352 10.283
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9	DFPP RS/Tree values 0.151 0.326 0.54 0.787 1.063	÷ ÷ ÷ ÷	Acres 0.230 0.230 0.230 0.230 0.230	= [= = = = = = = = = = = = = = = = = =	200 RS value per tree 0.658 1.420 2.352 3.428 4.630	X X X X X		43560 (s urveyed 7 10 5 7 2	= = = = =	ft. per acre) RS per DBH Class 4.604 14.201 11.761 23.997 9.261	- -	cut 2 cut 4 cut 4 cut 4 cut 4	ree RS lue 1.316 5.680 9.41 13.7 9.261	= = = =	Retained RS per DBH Class 3.289 8.520 2.352 10.283 0.000 5.950
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	DFPP RS/Tree values 0.151 0.326 0.54 0.787 1.063 1.366	: : : : :	Acres 0.230 0.230 0.230 0.230 0.230 0.230 0.230	= [= = = = = = = = = = = = = = = = = =	200 RS value per tree 0.658 1.420 2.352 3.428 4.630 5.950	X X X X X		43560 (s urveyed 7 10 5 7 2	= = = = = = =	ft. per acre) RS per DBH Class 4.604 14.201 11.761 23.997 9.261 11.901	- -	cut 2 cut 4 cut 4 cut 4 cut 4 cut 2 cut 1 cut 1	ree RS lue 1.316 5.680 9.41 13.7 9.261 5.950	= = = = = =	Retained RS per DBH
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9	DFPP RS/Tree values 0.151 0.326 0.54 0.787 1.063 1.366	: : : : :	Acres 0.230 0.230 0.230 0.230 0.230 0.230 0.230	= [= = = = = = = = = = = = = = = = = =	200 RS value per tree 0.658 1.420 2.352 3.428 4.630 5.950	X X X X X		7 10 5 7 2 2 1 Total RS *	= = = = = = =	ft. per acre) RS per DBH Class 4.604 14.201 11.761 23.997 9.261 11.901 7.375	- - - - -	va cut 2 cut 4 cut 4 cut 4 cut 2 cut 1 cut 1 Retaine	ree RS lue 1.316 5.680 9.41 13.7 9.261 5.950 7.375 ed RS**	= = = = = = =	Retained RS per DBH Class 3.289 8.520 2.352 10.283 0.000 5.950
DBH Class 4-7.9 8-11.9 12-15.9 16-19.9 20-23.9 24-27.9 28 +	DFPP RS/Tree values 0.151 0.326 0.54 0.787 1.063 1.366 1.693	÷ ÷ ÷ ÷	Acres 0.230 0.230 0.230 0.230 0.230 0.230 0.230	= [= = = = = = = = = = = = = = = = = =	200 RS value per tree 0.658 1.420 2.352 3.428 4.630 5.950	X X X X X	Trees S	7 10 5 7 2 2 1 Total RS *	= = = = = = =	RS per DBH Class 4.604 14.201 11.761 23.997 9.261 11.901 7.375	- - - - -	va cut 2 cut 4 cut 4 cut 4 cut 2 cut 1 cut 1 Retaine	ree RS lue 1.316 5.680 9.41 13.7 9.261 5.950 7.375 ed RS**	= = = = = = =	Retained RS per DBH Class 3.289 8.520 2.352 10.283 0.000 5.950 0.000

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
- 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 "DFPP 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 Douglas-fir-Ponderosa Pine (DFPP) Forest Type - Option 1 (60/30)

INNER ZONE								
	Stream I	ength S	Surveyed =	Х	25' (inner zone width)		=A	cres
					43560 (sq. ft. per acre)			
	DFPP							Retained RS
	RS/Tree			RS value		RS per DBH	Cut Tree RS	per DBH
DBH Class	values		Acres	per tree	Trees Surveyed	Class	Value	Class
4-7.9	0.151	÷	=	X	=		-	=
8-11.9	0.326	÷	=	X	=		-	=
12-15.9	0.54	÷	=	Х	=		-	=
16-19.9	0.787	÷	=	X	=		-	=
20-23.9	1.063	÷	=	Х	=		-	=
24-27.9	1.366	÷	=	X	=		-	=
28 +	1.693	÷	=	Х	=			=
					Total RS * =		Retained RS**	=
					(sum of RS/DBH Class)	-	(sum of Retained	RS/DBH Class)
* Total RS m	ust be > 60	or no ir	nner zone har	vest may occu	r			
** Retained	RS must be	e > or = 6	60 RS followin	ng harvest				
OUTER ZON	E							
	Stream I	ength S	Surveyed =	Х	50' (outer zone width)		=	cres
					43560 (sq. ft. per acre)			
	DFPP							Retained RS
	RS/Tree			RS value		RS per DBH	Cut Tree RS	per DBH
DBH Class	values		Acres	per tree	Trees Surveyed	Class	Value	Class
4-7.9	0.151	÷	=	Х	=		-	=
8-11.9	0.326	÷	=	X	=		-	=
12-15.9	0.54	÷	=	X	=		-	=
16-19.9	0.787	÷	=	X	=		-	=
20-23.9	1.063	÷	=	Х	=		-	=
24-27.9	1.366	÷	=	Х	=		- :	=
28 +	1.693	÷	=	Х	=		-	=
					Total RS * =		Retained RS**	=
					(sum of RS/DBH Class)		(sum of Retained	RS/DBH Class)
* Total RS m	ust be > 30	or no o	uter zone ha	rvest may occu	• • •		•	,

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 "DFPP 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 Douglas-fir-Ponderosa Pine (DFPP) Forest Type - Option 2 (60/10)

INNER ZONE										
	Stream I	_ength	n Surveyed	= [Χ	50' (inner zone width)		=	Acres
				-			43560 (sq. ft. per acre)		·	
	DFPP									Retained RS
	RS/Tree				RS value			RS per DBH	Cut Tree RS	per DBH
DBH Class	values		Acres		per tree		Trees Surveyed	Class	Value	Class
4-7.9	0.151	÷		=		Χ	=		-	=
8-11.9	0.326	÷		=		Χ	=		-	=
12-15.9	0.54	÷		=		Χ	=		-	=
16-19.9	0.787	÷		=		Χ	=		-	=
20-23.9	1.063	÷		=		Χ	=		-	=
24-27.9	1.366	÷		=		Χ	=		-	=
28 +	1.693	÷		=		Χ	=		-	=
							Total RS * =		Retained RS**	
							(sum of RS/DBH Class)		(sum of Retain	ed RS/DBH Class)
* Total RS m					•	cu	r			
** Retained		: > or =	= 60 RS follo	wir	ng harvest					
OUTER ZONE				_					•	•
	Stream L	_ength	n Surveyed	= [Χ	25' (outer zone width)		=	Acres
							43560 (sq. ft. per acre)			
	DFPP									Retained RS
	RS/Tree				RS value			RS per DBH	Cut Tree RS	per DBH
DBH Class	values		Acres		per tree		Trees Surveyed	Class	Value	Class
4-7.9	0.151	÷		=		X	=		-	=
8-11.9	0.326	÷		=		X	=		-	=
12-15.9						Χ	=		=	=
	0.54	÷		=						
16-19.9	0.787	÷		=		Χ	=		-	=
20-23.9	0.787 1.063	÷		= =		X X	=		-	=
20-23.9 24-27.9	0.787 1.063 1.366	÷ ÷ ÷		= = =		X X X	=		- -	= =
20-23.9	0.787 1.063	÷		= =		X X	= =		- - -	= = =
20-23.9 24-27.9	0.787 1.063 1.366	÷ ÷ ÷		= = =		X X X	= = = Total RS * =		- - - Retained RS**	= = = = = = = = = = = = = = = = = = = =
20-23.9 24-27.9 28 +	0.787 1.063 1.366 1.693	÷ ÷ ÷		= = = =		X X X	= = = Total RS * = (sum of RS/DBH Class)			= = = = = = = = = = = = = = = = = = = =
20-23.9 24-27.9	0.787 1.063 1.366 1.693 ust be > 10	÷ ÷ ÷		= = = = =	rvest may oc	X X X	= = = Total RS * = (sum of RS/DBH Class)			= = = = = = =

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.
- 4) Divide the "DFPP 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.