

Worksheet for South Idaho Grand Fir (SIGF) Forest Type - Option 1 (60/30)

INNER ZONE

Stream Length Surveyed = 200 X $\frac{25' \text{ (inner zone width)}}{43560 \text{ (sq. ft. per acre)}} =$ 0.115 Acres

DBH Class	SIGF RS/Tree values	Acres	RS value per tree	Trees Surveyed	RS per DBH Class	Cut Tree RS Value	Retained RS per DBH Class
4-7.9	0.136	0.115	1.185	5	5.924	cut 1 1.185	4.739
8-11.9	0.293	0.115	2.553	4	10.210	cut 1 2.553	7.658
12-15.9	0.486	0.115	4.234	3	12.702	-	12.702
16-19.9	0.708	0.115	6.168	2	12.336	-	12.336
20-23.9	0.957	0.115	8.337	1	8.337	cut 1 8.34	0.000
24-27.9	1.229	0.115	10.707	1	10.707	-	10.707
28 +	1.524	0.115	13.277	1	13.277	-	13.277
Total RS * = 73.49					Retained RS** = 61.42		
(sum of RS/DBH Class)					(sum of Retained RS/DBH Class)		

* Total RS must be > 60 or no inner zone harvest may occur
 ** Retained RS must be > or = 60 RS following harvest

OUTER ZONE

Stream Length Surveyed = 200 X $\frac{50' \text{ (outer zone width)}}{43560 \text{ (sq. ft. per acre)}} =$ 0.23 Acres

DBH Class	SIGF RS/Tree values	Acres	RS value per tree	Trees Surveyed	RS per DBH Class	Cut Tree RS Value	Retained RS per DBH Class
4-7.9	0.136	0.230	0.592	7	4.147	cut 2 1.185	2.962
8-11.9	0.293	0.230	1.276	8	10.210	cut 4 5.105	5.105
12-15.9	0.486	0.230	2.117	7	14.819	cut 4 8.47	6.351
16-19.9	0.708	0.230	3.054	6	18.504	cut 4 12.3	6.168
20-23.9	0.957	0.230	4.169	3	12.506	cut 2 8.34	4.169
24-27.9	1.229	0.230	5.354	2	10.707	cut 1 5.354	5.354
28 +	1.524	0.230	6.639	1	6.639	cut 1 6.639	0.000
Total RS * = 77.53					Retained RS** = 30.11		
(sum of RS/DBH Class)					(sum of Retained RS/DBH Class)		

* Total RS must be > 30 or no outer zone harvest may occur
 ** Retained RS must be > or = 30 RS following harvest

- 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 "SIGF 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.

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INNER ZONE

$$\text{Stream Length Surveyed} = \boxed{} \times \frac{25' \text{ (inner zone width)}}{43560 \text{ (sq. ft. per acre)}} = \boxed{} \text{ Acres}$$

DBH Class	SIGF RS/ac values	Acres	RS value per tree	Trees Surveyed	RS per DBH Class	Cut Tree RS Value	Retained RS per DBH Class
4-7.9	0.136	÷	=	X	=	-	=
8-11.9	0.293	÷	=	X	=	-	=
12-15.9	0.486	÷	=	X	=	-	=
16-19.9	0.708	÷	=	X	=	-	=
20-23.9	0.957	÷	=	X	=	-	=
24-27.9	1.229	÷	=	X	=	-	=
28 +	1.524	÷	=	X	=	-	=
Total RS * = <input style="width: 100px;" type="text"/>					Retained RS** = <input style="width: 100px;" type="text"/>		
(sum of RS/DBH Class)					(sum of Retained RS/DBH Class)		

* Total RS must be > 60 or no inner zone harvest may occur

** Retained RS must be > or = 60 RS following harvest

OUTER ZONE

$$\text{Stream Length Surveyed} = \boxed{} \times \frac{50' \text{ (outer zone width)}}{43560 \text{ (sq. ft. per acre)}} = \boxed{} \text{ Acres}$$

DBH Class	SIGF RS/ac values	Acres	RS value per tree	Trees Surveyed	RS per DBH Class	Cut Tree RS Value	Retained RS per DBH Class
4-7.9	0.136	÷	=	X	=	-	=
8-11.9	0.293	÷	=	X	=	-	=
12-15.9	0.486	÷	=	X	=	-	=
16-19.9	0.708	÷	=	X	=	-	=
20-23.9	0.957	÷	=	X	=	-	=
24-27.9	1.229	÷	=	X	=	-	=
28 +	1.524	÷	=	X	=	-	=
Total RS * = <input style="width: 100px;" type="text"/>					Retained RS** = <input style="width: 100px;" type="text"/>		
(sum of RS/DBH Class)					(sum of Retained RS/DBH Class)		

* Total RS must be > 30 or no outer zone harvest may occur

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

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 "SIGF 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 South Idaho Grand Fir (SIGF) Forest Type - Option 2 (60/10)

INNER ZONE

$$\text{Stream Length Surveyed} = \boxed{} \times \frac{50' \text{ (inner zone width)}}{43560 \text{ (sq. ft. per acre)}} = \boxed{} \text{ Acres}$$

DBH Class	SIGF RS/ac values	Acres	RS value per tree	Trees Surveyed	RS per DBH Class	Cut Tree RS Value	Retained RS per DBH Class
4-7.9	0.136	÷	=	X	=	-	=
8-11.9	0.293	÷	=	X	=	-	=
12-15.9	0.486	÷	=	X	=	-	=
16-19.9	0.708	÷	=	X	=	-	=
20-23.9	0.957	÷	=	X	=	-	=
24-27.9	1.229	÷	=	X	=	-	=
28 +	1.524	÷	=	X	=	-	=
Total RS * = $\boxed{}$					Retained RS** = $\boxed{}$		
(sum of RS/DBH Class)					(sum of Retained RS/DBH Class)		

* Total RS must be > 60 or no inner zone harvest may occur

** Retained RS must be > or = 60 RS following harvest

OUTER ZONE

$$\text{Stream Length Surveyed} = \boxed{} \times \frac{25' \text{ (outer zone width)}}{43560 \text{ (sq. ft. per acre)}} = \boxed{} \text{ Acres}$$

DBH Class	SIGF RS/ac values	Acres	RS value per tree	Trees Surveyed	RS per DBH Class	Cut Tree RS Value	Retained RS per DBH Class
4-7.9	0.136	÷	=	X	=	-	=
8-11.9	0.293	÷	=	X	=	-	=
12-15.9	0.486	÷	=	X	=	-	=
16-19.9	0.708	÷	=	X	=	-	=
20-23.9	0.957	÷	=	X	=	-	=
24-27.9	1.229	÷	=	X	=	-	=
28 +	1.524	÷	=	X	=	-	=
Total RS * = $\boxed{}$					Retained RS** = $\boxed{}$		
(sum of RS/DBH Class)					(sum of Retained RS/DBH Class)		

* Total RS must be > 10 or no outer zone harvest may occur

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

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 "SIGF 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.