

APPENDIX 6 – OLD GROWTH CHARACTERISTICS OF STANDS BURNED BY WILDFIRE

Table 1: Description of data sources for the attached summary sheets

Old Growth Characteristic*	Data Source	Comment
Minimum Age of Large Trees	FSVeg Report 16	Trees per acre weighted averages ages of trees with nonzero, non-NULL measurements in largest size classes (20.1-24 in, 24.1-28 in, etc.)
Minimum Number of Trees per Acre Larger than a Specified Diameter	FSVeg Report 16	Average number of trees per acre larger than the specified minimum diameter. Standard error of that average.
Minimum Basal Area of Trees $\geq 5''$ dbh (Ft ² /Acre) ^{4/ 5/}	FSVeg Report 16	Average basal area per acre of trees over 5" dbh. Standard error of that sum.
DBH Variation in Trees $\geq 9''$ dbh ^{2/}	FSVeg Report 26	Sum of trees per acre over 9" dbh by 4-inch dbh groups to show diameter distribution.
Percent Dead/Broken Tops in Trees $\geq 9''$ dbh ^{1/}	FSVeg Report 16 12/1/06 Draft R1 Old Growth Report	Trees per acre with dead/broken tops from Draft R1 report divided by total live trees per acre from FSVeg Report 16
Probability of Down Woody $\geq 9''$ dbh ^{2/}	FSVeg Report 20	Based on number of pieces over 9" diameter intersected on transect. Example: "3 of 10 plots with pieces" can be interpreted as a 30 percent probability of intersecting a 9"+ diameter piece on any random 100-foot transect.
Percent of Trees $> 9''$ DBH With Decay ^{1/}	FSVeg Report 16 12/1/06 Draft R1 Old Growth Report	Trees per acre with decay from Draft R1 report divided by total live trees per acre from FSVeg Report 16
Number of Snags $\geq 9''$ DBH Per Acre	FSVeg Report 16	Recent and older dead trees over 9" dbh per acre.
Number of Canopy Layers ^{3/}	Stand observations write-up by inventory crew	

Old Growth Monitoring Stand Summary

Stand ID: 38001021
 Initial Exam Date: Nov 1981
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Cooney Ridge – 2003 – Mixed Intensity
 Habitat Type: 625 Forest Type: DF
 Old Growth Habitat Type Group*: E Old Growth Type*: 4

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	180	200-225	357
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 21" dbh	9 \pm 2	1 \pm 1
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	80	120 \pm 18	83 \pm 14
DBH Variation in Trees \geq 9" dbh ^{2/}	H	71 tpa 9-12.9" dbh 42 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 5 tpa 21-24.9" dbh 4 tpa 25"+ dbh	40 tpa 9-12.9" dbh 32 tpa 13-16.9" dbh 9 tpa 17-20.9" dbh 1 tpa 21-24.9" dbh 0 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	9 0-19	0% 0/122	0% 0/82
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 0.5 pieces/transect 2 of 6 plots with pieces
Percent of Trees $>$ 9" DBH With Decay ^{1/}	9 1-31	0% 0/122	3% 2.7/82
Number of Snags \geq 9" DBH Per Acre	15 2-43	15	5
Number of Canopy Layers ^{3/}	Single/Multiple		Two

1/ These values are not minimum criteria. They are the range of means for trees \geq 9" DBH across plots within forests, forest types, or habitat type groups.

2/ These are not minimum criteria. They are Low, Moderate, and High probabilities of abundant large down woody material or variation in diameters based on stand condition expected to occur most frequently.

3/ Not a minimum criteria. Number of canopy layers can vary within an old growth type with age, relative abundance of different species and successional stage.

4/ In Old Growth Type 3, 60 ft² applies to habitat type group E for LP, 70 ft² of basal area applies to habitat type group C for LP and habitat type group H for ES,AF,WBP, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 3 .

5/ In Old Growth Type 5, 70 ft² applies to habitat type group H for SAF, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 5 .

* Green, P., Joy, J., Sirucek, D., Hann, W., Zack, A., Naumann, B. 1992 (*errata corrected 02/05*). Old-Growth Forest Types of the Northern Region. In Our Approach to Sustaining Ecological Systems. USDA Forest Service, Northern Region, Missoula MT

Old Growth Monitoring Stand Summary

Stand ID: 38001031
 Initial Exam Date: Nov 1981
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Cooney Ridge – 2003 – Mixed Intensity
 Habitat Type: 625 Forest Type: L
 Old Growth Habitat Type Group*: E Old Growth Type*: 4

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	180	154-230	245-300
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 21" dbh	11 \pm 4	6 \pm 2
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	80	147 \pm 10	86 \pm 17
DBH Variation in Trees \geq 9" dbh ^{2/}	H	65 tpa 9-12.9" dbh 30 tpa 13-16.9" dbh 8 tpa 17-20.9" dbh 8 tpa 21-24.9" dbh 3 tpa 25"+ dbh	23 tpa 9-12.9" dbh 20 tpa 13-16.9" dbh 11 tpa 17-20.9" dbh 5 tpa 21-24.9" dbh 2 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	9 0-19	0% 0/113	0% 0/60
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 2.7 pieces/transect 7 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ¹⁷	9 1-31	0% 0/113	12% 7.0/60
Number of Snags \geq 9" DBH Per Acre	15 2-43	8	27
Number of Canopy Layers ^{3/}	Single/Multiple		Two

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Old Growth Monitoring Stand Summary

Stand ID: 38001035
 Initial Exam Date: Nov 1981
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Cooney Ridge – 2003 – Mixed Intensity
 Habitat Type: 670/290 Forest Type: L
 Old Growth Habitat Type Group*: E/G Old Growth Type*: 4/5

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	180	192-207	238-400
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 21" dbh 10 tpa \geq 17" dbh	14 \pm 3 27 \pm 4	5 \pm 2 12 \pm 3
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	80	133 \pm 11	100 \pm 14
DBH Variation in Trees \geq 9" dbh ^{2/}	H	37 tpa 9-12.9" dbh 22 tpa 13-16.9" dbh 13 tpa 17-20.9" dbh 11 tpa 21-24.9" dbh 2 tpa 25"+ dbh	34 tpa 9-12.9" dbh 22 tpa 13-16.9" dbh 8 tpa 17-20.9" dbh 3 tpa 21-24.9" dbh 3 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	9 0-19	0% 0/86	0% 0/67
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 0.9 pieces/transect 6 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	9 1-31	0% 0/86	8% 5.3/67
Number of Snags \geq 9" DBH Per Acre	15 2-43	0	4
Number of Canopy Layers ^{3/}	Single/Multiple		Multiple

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Old Growth Monitoring Stand Summary

Stand ID: 38001056

Initial Exam Date: Nov 1981, Aug 1992

Monitoring Exam Date: Aug 2006

Wildfire Intensity: Cooney Ridge – 2003 – Mixed Intensity

Habitat Type: 625 Forest Type: LP

Old Growth Habitat Type Group*: C Old Growth Type*: 3

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam 1981	Initial Exam 1992	2006 Monitoring Exam
Minimum Age of Large Trees	140	101-170	81	100-126
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 13" dbh	36 \pm 13	55 \pm 25	19 \pm 9
Minimum Basal Area of Trees $>$ 5" dbh (Ft ² /Acre) ^{4/ 5/}	60/70/80	200 \pm 21	160 \pm 28	70 \pm 16
DBH Variation in Trees \geq 9" dbh ^{2/}	L	124 tpa 9-12.9" dbh 35 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 1 tpa 21-24.9" dbh 0 tpa 25"+ dbh	102 tpa 9-12.9" dbh 55 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 0 tpa 21-24.9" dbh 0 tpa 25"+ dbh	66 tpa 9-12.9" dbh 15tpa 13-16.9" dbh 2 tpa 17-20.9" dbh 1 tpa 21-24.9" dbh 1 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	11 5-22		0% 0/157	0% 0/85
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	No Data	Avg 0.8 pieces/transect 4 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	6 2-15		0% 0/157	17% 14.2/85
Number of Snags \geq 9" DBH Per Acre	11 5-22	6	0	31
Number of Canopy Layers ^{3/}	Single			Multiple

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Old Growth Monitoring Stand Summary

Stand ID: 52303023
 Initial Exam Date: Aug 1982
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Siegel Creek – 2000 – Low Intensity
 Habitat Type: 690 Forest Type: DF
 Old Growth Habitat Type Group*: H Old Growth Type*: 5

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	180	191-238	193-431
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 17" dbh	22 \pm 5	9 \pm 3
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	70/80	113 \pm 20	52 \pm 12
DBH Variation in Trees \geq 9" dbh ^{2/}	M	42 tpa 9-12.9" dbh 25 tpa 13-16.9" dbh 18 tpa 17-20.9" dbh 3 tpa 21-24.9" dbh 1 tpa 25"+ dbh	17 tpa 9-12.9" dbh 6 tpa 13-16.9" dbh 8 tpa 17-20.9" dbh 1 tpa 21-24.9" dbh 1 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	9 1-18	17% 15.3/88	0% 0/33
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 0.6 pieces/transect 5 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	6 0-12	0% 0/88	10% 3.2/33
Number of Snags \geq 9" DBH Per Acre	12 3-36	5	24
Number of Canopy Layers ^{3/}	Multiple		Multiple

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Old Growth Monitoring Stand Summary

Stand ID: 52303026
 Initial Exam Date: Aug 1982
 Monitoring Exam Date: Jun 2006
 Wildfire Intensity: Siegel Creek – 2000 – High Intensity
 Habitat Type: 320 Forest Type: DF
 Old Growth Habitat Type Group*: B Old Growth Type*: 1

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	170	153-200	0
Minimum Number of Trees per Acre Larger than a Specified Diameter	8 tpa \geq 21" dbh	9 \pm 2	0 \pm 0
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	60	97 \pm 23	0 \pm 0
DBH Variation in Trees \geq 9" dbh ^{2/}	M	26 tpa 9-12.9" dbh 30 tpa 13-16.9" dbh 3 tpa 17-20.9" dbh 6 tpa 21-24.9" dbh 4 tpa 25"+ dbh	0 tpa 9-12.9" dbh 0 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 0 tpa 21-24.9" dbh 0 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	12 3-23	2% 1.4/68	0% 0/0
Probability of Down Woody \geq 9" dbh ^{2/}	L – M	No Data	Avg 1.3 pieces/transect 6 of 9 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	5 0-11	2% 1.6/68	0% 0/0
Number of Snags \geq 9" DBH Per Acre	6 0-22	3	79
Number of Canopy Layers ^{3/}	Single		Single

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Old Growth Monitoring Stand Summary

Stand ID: 52303032
 Initial Exam Date: Aug 1982
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Siegel Creek – 2000 – High Intensity
 Habitat Type: 280 Forest Type: DF
 Old Growth Habitat Type Group*: C Old Growth Type*: 2

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	170	200-208	0
Minimum Number of Trees per Acre Larger than a Specified Diameter	8 tpa \geq 21" dbh	8 \pm 3	0 \pm 0
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	80	129 \pm 23	0 \pm 0
DBH Variation in Trees \geq 9" dbh ^{2/}	H	71 tpa 9-12.9" dbh 9 tpa 13-16.9" dbh 6 tpa 17-20.9" dbh 6 tpa 21-24.9" dbh 3 tpa 25"+ dbh	0 tpa 9-12.9" dbh 0 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 0 tpa 21-24.9" dbh 0 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	11 0-21	19% 17.8/95	0% 0/0
Probability of Down Woody \geq 9" dbh ^{2/}	M	No Data	Avg 1.5 pieces/transect 4 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	5 2-12	0% 0/95	0% 0/0
Number of Snags \geq 9" DBH Per Acre	7 2-37	15	117
Number of Canopy Layers ^{3/}	Single/Multiple		Single

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Old Growth Monitoring Stand Summary

Stand ID: 76501071
 Initial Exam Date: Jun 1987
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – High Intensity
 Habitat Type: 720 Forest Type: SAF
 Old Growth Habitat Type Group*: H Old Growth Type*: 5

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	180	162-265	0
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 17" dbh	15 \pm 5	0 \pm 0
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	70/80	115 \pm 10	0 \pm 0
DBH Variation in Trees \geq 9" dbh ^{2/}	M	74 tpa 9-12.9" dbh 17 tpa 13-16.9" dbh 9 tpa 17-20.9" dbh 2 tpa 21-24.9" dbh 4 tpa 25"+ dbh	0 tpa 9-12.9" dbh 0 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 0 tpa 21-24.9" dbh 0 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	9 1-18	2% 1.7/107	0% 0/0
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 2.5 pieces/transect 8 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	6 0-12	6% 6.8/107	0% 0/0
Number of Snags \geq 9" DBH Per Acre	12 3-36	32	58
Number of Canopy Layers ^{3/}	Multiple		Single

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Old Growth Monitoring Stand Summary

Stand ID: 76701010
 Initial Exam Date: Sep 1976
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – Mixed Intensity
 Habitat Type: 692 Forest Type: LP
 Old Growth Habitat Type Group*: H Old Growth Type*: 3

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	140	195	0
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 13" dbh	12 \pm 12	0 \pm 0
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	60/70/80	80 \pm 31	6 \pm 3
DBH Variation in Trees \geq 9" dbh ^{2/}	L	37 tpa 9-12.9" dbh 12 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 0 tpa 21-24.9" dbh 0 tpa 25"+ dbh	4 tpa 9-12.9" dbh 0 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 0 tpa 21-24.9" dbh 0 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	11 5-22	0% 0/49	0% 0/4
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 3.8 pieces/transect 8 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	6 2-15	0% 0/49	0% 0/4
Number of Snags \geq 9" DBH Per Acre	11 5-22	22	81
Number of Canopy Layers ^{3/}	Single		Single

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Old Growth Monitoring Stand Summary

Stand ID: 76701014
 Initial Exam Date: None
 Monitoring Exam Date: Jun 2001, Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – Low Intensity
 Habitat Type: 691 Forest Type: DF
 Old Growth Habitat Type Group*: H Old Growth Type*: 5

Old Growth Characteristic*	Old Growth Criteria*	2001 Monitoring Exam	2006 Monitoring Exam
Minimum Age of Large Trees	180	No Data	92
Minimum Number of Trees per Acre Larger than a Specified Diameter	10 tpa \geq 17" dbh	67 \pm 18	1 \pm 1
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	70/80	240 \pm 46	2 \pm 2
DBH Variation in Trees \geq 9" dbh ^{2/}	M	59 tpa 9-12.9" dbh 46 tpa 13-16.9" dbh 45 tpa 17-20.9" dbh 9 tpa 21-24.9" dbh 13 tpa 25"+ dbh	0 tpa 9-12.9" dbh 0 tpa 13-16.9" dbh 0 tpa 17-20.9" dbh 1 tpa 21-24.9" dbh 0 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	9 1-18	/173	0% 0/1
Probability of Down Woody \geq 9" dbh ^{2/}	H	No Data	Avg 0.1 pieces/transect 1 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	6 0-12	/173	70% 0.7/1
Number of Snags \geq 9" DBH Per Acre	12 3-36	29	29
Number of Canopy Layers ^{3/}	Multiple		Multiple

1/ These values are not minimum criteria. They are the range of means for trees \geq 9" DBH across plots within forests, forest types, or habitat type groups.

2/ These are not minimum criteria. They are Low, Moderate, and High probabilities of abundant large down woody material or variation in diameters based on stand condition expected to occur most frequently.

3/ Not a minimum criteria. Number of canopy layers can vary within an old growth type with age, relative abundance of different species and successional stage.

4/ In Old Growth Type 3, 60 ft² applies to habitat type group E for LP, 70 ft² of basal area applies to habitat type group C for LP and habitat type group H for ES,AF,WBP, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 3 .

5/ In Old Growth Type 5, 70 ft² applies to habitat type group H for SAF, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 5 .

* Green, P., Joy, J., Sirucek, D., Hann, W., Zack, A., Naumann, B. 1992 (*errata corrected 02/05*). Old-Growth Forest Types of the Northern Region. In Our Approach to Sustaining Ecological Systems. USDA Forest Service, Northern Region, Missoula MT

Old Growth Monitoring Stand Summary

Stand ID: 76701015
 Initial Exam Date: Sep 1976
 Monitoring Exam Date: Jun 2001, Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – Low Intensity
 Habitat Type: 260 Forest Type: DF
 Old Growth Habitat Type Group*: B Old Growth Type*: 1

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2001 Monitoring Exam	2006 Monitoring Exam
Minimum Age of Large Trees	170	183-206	175-269	208-354
Minimum Number of Trees per Acre Larger than a Specified Diameter	8 tpa \geq 21" dbh	17 \pm 8	10 \pm 4	4 \pm 2
Minimum Basal Area of Trees $>$ 5" dbh (Ft ² /Acre) ^{4/ 5/}	60	131 \pm 23	100 \pm 22	70 \pm 18
DBH Variation in Trees \geq 9" dbh ^{2/}	M	27 tpa 9-12.9" dbh 19 tpa 13-16.9" dbh 10 tpa 17-20.9" dbh 8 tpa 21-24.9" dbh 9 tpa 25"+ dbh	30 tpa 9-12.9" dbh 13 tpa 13-16.9" dbh 14 tpa 17-20.9" dbh 5 tpa 21-24.9" dbh 6 tpa 25"+ dbh	37 tpa 9-12.9" dbh 13 tpa 13-16.9" dbh 7 tpa 17-20.9" dbh 2 tpa 21-24.9" dbh 4 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	12 3-23		0% 0/67	2% 1.1/61
Probability of Down Woody \geq 9" dbh ^{2/}	L – M	No Data	No Data	Avg 0.7 pieces/transect 3 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	5 0-11		0% 0/67	15% 8.9/61
Number of Snags \geq 9" DBH Per Acre	6 0-22	1	0	30
Number of Canopy Layers ^{3/}	Single			Multiple

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4/ In Old Growth Type 3, 60 ft² applies to habitat type group E for LP, 70 ft² of basal area applies to habitat type group C for LP and habitat type group H for ES,AF,WBP, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 3 .

5/ In Old Growth Type 5, 70 ft² applies to habitat type group H for SAF, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 5 .

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Old Growth Monitoring Stand Summary

Stand ID: 76701016
 Initial Exam Date: Sep 1976
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – Low Intensity
 Habitat Type: 262 Forest Type: DF
 Old Growth Habitat Type Group*: B Old Growth Type*: 1

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	170	186	196-222
Minimum Number of Trees per Acre Larger than a Specified Diameter	8 tpa \geq 21" dbh	5 \pm 3	3 \pm 1
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	60	167 \pm 54	50 \pm 17
DBH Variation in Trees \geq 9" dbh ^{2/}	M	97 tpa 9-12.9" dbh 47 tpa 13-16.9" dbh 3 tpa 17-20.9" dbh 5 tpa 21-24.9" dbh 0 tpa 25"+ dbh	10 tpa 9-12.9" dbh 14 tpa 13-16.9" dbh 5 tpa 17-20.9" dbh 2 tpa 21-24.9" dbh 1 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	12 3-23	0% 0/152	6% 1.8/32
Probability of Down Woody \geq 9" dbh ^{2/}	L – M	No Data	Avg 0.8 pieces/transect 4 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	5 0-11	0% 0/152	20% 6.5/32
Number of Snags \geq 9" DBH Per Acre	6 0-22	17	46
Number of Canopy Layers ^{3/}	Single		Multiple

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3/ Not a minimum criteria. Number of canopy layers can vary within an old growth type with age, relative abundance of different species and successional stage.

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5/ In Old Growth Type 5, 70 ft² applies to habitat type group H for SAF, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 5 .

* Green, P., Joy, J., Sirucek, D., Hann, W., Zack, A., Naumann, B. 1992 (*errata corrected 02/05*). Old-Growth Forest Types of the Northern Region. In Our Approach to Sustaining Ecological Systems. USDA Forest Service, Northern Region, Missoula MT

Old Growth Monitoring Stand Summary

Stand ID: 76701019
 Initial Exam Date: None
 Monitoring Exam Date: Aug 2001, Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – Low Intensity
 Habitat Type: 262 Forest Type: DF
 Old Growth Habitat Type Group*: B Old Growth Type*: 1

Old Growth Characteristic*	Old Growth Criteria*	2001 Monitoring Exam	2006 Monitoring Exam
Minimum Age of Large Trees	170	No Data	121-170
Minimum Number of Trees per Acre Larger than a Specified Diameter	8 tpa \geq 21" dbh	13 \pm 6	3 \pm 2
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	60	104 \pm 13	80 \pm 31
DBH Variation in Trees \geq 9" dbh ^{2/}	M	17 tpa 9-12.9" dbh 8 tpa 13-16.9" dbh 9 tpa 17-20.9" dbh 9 tpa 21-24.9" dbh 5 tpa 25"+ dbh	5 tpa 9-12.9" dbh 13 tpa 13-16.9" dbh 4 tpa 17-20.9" dbh 2 tpa 21-24.9" dbh 2 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	12 3-23	/46	15% 3.7/25
Probability of Down Woody \geq 9" dbh ^{2/}	L – M	No Data	Avg 2.8 pieces/transect 7 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	5 0-11	/46	0% 0/25
Number of Snags \geq 9" DBH Per Acre	6 0-22	21	27
Number of Canopy Layers ^{3/}	Single		Multiple

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2/ These are not minimum criteria. They are Low, Moderate, and High probabilities of abundant large down woody material or variation in diameters based on stand condition expected to occur most frequently.

3/ Not a minimum criteria. Number of canopy layers can vary within an old growth type with age, relative abundance of different species and successional stage.

4/ In Old Growth Type 3, 60 ft² applies to habitat type group E for LP, 70 ft² of basal area applies to habitat type group C for LP and habitat type group H for ES,AF,WBP, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 3 .

5/ In Old Growth Type 5, 70 ft² applies to habitat type group H for SAF, 80 ft² of basal area applies to all other habitat type and cover type combinations in Old Growth Type 5 .

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Old Growth Monitoring Stand Summary

Stand ID: 76802204
 Initial Exam Date: Nov 1995
 Monitoring Exam Date: Aug 2006
 Wildfire Intensity: Flat Creek – 2000 – Low Intensity
 Habitat Type: 320 Forest Type: PP
 Old Growth Habitat Type Group*: B Old Growth Type*: 1

Old Growth Characteristic*	Old Growth Criteria*	Initial Exam	2006 Monitoring Exam
Minimum Age of Large Trees	170	No Data	96-211
Minimum Number of Trees per Acre Larger than a Specified Diameter	8 tpa \geq 21" dbh	8 \pm 5	3 \pm 1
Minimum Basal Area of Trees \geq 5" dbh (Ft ² /Acre) ^{4/ 5/}	60	136 \pm 16	50 \pm 12
DBH Variation in Trees \geq 9" dbh ^{2/}	M	85 tpa 9-12.9" dbh 6 tpa 13-16.9" dbh 14 tpa 17-20.9" dbh 9 tpa 21-24.9" dbh 0 tpa 25"+ dbh	10 tpa 9-12.9" dbh 14 tpa 13-16.9" dbh 10 tpa 17-20.9" dbh 2 tpa 21-24.9" dbh 1 tpa 25"+ dbh
Percent Dead/Broken Tops in Trees \geq 9" dbh ^{1/}	12 3-23	0% 0/113	0% 0/36
Probability of Down Woody \geq 9" dbh ^{2/}	L – M	No Data	Avg 0.4 pieces/transect 3 of 10 plots with pieces
Percent of Trees \geq 9" DBH With Decay ^{1/}	5 0-11	0% 0/113	0% 0/36
Number of Snags \geq 9" DBH Per Acre	6 0-22	0	16
Number of Canopy Layers ^{3/}	Single		Two

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