

SOUND MEASUREMENT OF COLUMBIA'S BOEING VERTOL 107									
BLM'S CEDAR HOUSE TIMBER SALE (NEAR SCOTTSBURG, OR)									
UPPER LOG LANDING									
18 April 2007									
DISTANCE FROM SOURCE (ft.)	Maximum reading (dBA slow)							PAGE 1	
195	99								
	96								
	97.9							Mean + 2SD	
	95				Mean	93.72		100.04	
	97				Standard Error	0.77			
	98				Median	94			
	90				Mode	90			
	89.6				Standard Deviation	3.16			
	90				Sample Variance	9.99			
	89.5				Kurtosis	-1.23			
	94				Skewness	0.13			
	93				Range	9.50			
	94.5				Minimum	89.5			
	93.8				Maximum	99.0			
	94				Sum	1593.30			
	91				Count	17			
	91								
292	88								
	87								
	86							Mean + 2SD	
	90				Mean	88.47		93.38	
	89				Standard Error	0.59			
	89				Median	89			
	92				Mode	88			
	84				Standard Deviation	2.45			
	91				Sample Variance	6.01			
	90				Kurtosis	0.44			
	88				Skewness	-0.82			
	88				Range	9			
	88				Minimum	83			
	88				Maximum	92			
	91				Sum	1504			
	83				Count	17			
	89								
	91								
442	90								
	79								
	80							Mean + 2SD	
	81				Mean	85.31		93.37	
	82				Standard Error	1.12			
	81				Median	88			
	86				Mode	88			
	88				Standard Deviation	4.03			
	89				Sample Variance	16.23			
	88				Kurtosis	-1.70			
	88				Skewness	-0.47			
	89				Range	11			
	88				Minimum	79			
					Maximum	90			
					Sum	1109			
					Count	13			

SOUND MEASUREMENT OF COLUMBIA'S BOEING VERTOIL 107									
BLM'S CEDAR HOUSE TIMBER SALE (NEAR SCOTTSBURG, OR)									
LOWER LOG LANDING (1st set of data)									
18 April 2007									
DISTANCE FROM SOURCE (ft.)	Maximum reading (dBA slow)								PAGE 2
210	91.5								
	91.8								Mean + 2SD
	91.6					Mean	91.51		93.11
	92.4					Standard Error	0.21		
	90					Median	91.4		
	91.2					Mode	91.2		
	91.3					Standard Deviation	0.80		
	93					Sample Variance	0.64		
	92					Kurtosis	-0.01		
	92.6					Skewness	0.17		
	90.8					Range	3		
	91.2					Minimum	90		
	90.8					Maximum	93		
	91					Sum	1281.2		
						Count	14		
297	91.7								
	92.8								Mean + 2SD
	92.5					Mean	92.19		93.63
	91.1					Standard Error	0.17		
	92.7					Median	92.3		
	91.5					Mode	92.5		
	91.9					Standard Deviation	0.72		
	91.9					Sample Variance	0.51		
	91.9					Kurtosis	0.35		
	90.8					Skewness	0.01		
	93.7					Range	2.9		
	92					Minimum	90.8		
	93.1					Maximum	93.7		
	92.5					Sum	1567.3		
	92.5					Count	17		
	92.3								
	92.4								

Mean + 2SD	93.11
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SOUND MEASUREMENT OF COLUMBIA'S BOEING VERTOL 107									
BLM'S CEDAR HOUSE TIMBER SALE (NEAR SCOTTSBURG, OR)									
LOWER LOG LANDING (1st set of data)									
18 April 2007									
DISTANCE FROM SOURCE (ft.)		Maximum reading (dBA slow)							PAGE 3
479		83.9				Statistics			
		83.3						Mean + 2SD	
		85.1				Mean	86.70	91.91	
		90.4				Standard Error	0.53		
		88.8				Median	87.45		
		87.9				Mode	84.8		
		87.5				Standard Deviation	2.61		
		88				Sample Variance	6.80		
		90.1				Kurtosis	-0.50		
		80.8				Skewness	-0.62		
		87.1				Range	9.6		
		87.4				Minimum	80.8		
		88.2				Maximum	90.4		
		82.4				Sum	2080.7		
		83.4				Count	24		
		85.5							
		84.8							
		86.8							
		84.8							
		88.7							
		89							
		88.7							
		89.7							
		88.4							

SOUND MEASUREMENT OF COLUMBIA'S BOEING VERTOIL 107									
BLM'S CEDAR HOUSE TIMBER SALE (NEAR SCOTTSBURG, OR)									
LOWER LOG LANDING (2nd set of data)									
19 April 2007									
DISTANCE FROM SOURCE (ft.)	Maximum reading (dBA slow)								PAGE 4
762	80.8								
	83.4								
	87.5								Mean + 2SD
	87.1				Mean	85.09			90.98
	90				Standard Error	0.93			
	85.8				Median	85.1			
	81.1				Mode	87.1			
	87.1				Standard Deviation	2.95			
	83.7				Sample Variance	8.68			
	84.4				Kurtosis	-0.71			
					Skewness	-0.01			
					Range	9.2			
					Minimum	80.8			
					Maximum	90			
					Sum	850.9			
					Count	10			
829	82.5								
	83.7								
	83.6								Mean + 2SD
	76.6				Mean	81.79			86.64
	82.6				Standard Error	0.63			
	79				Median	81.9			
	81.2				Mode	80.9			
	78.4				Standard Deviation	2.42			
	80.9				Sample Variance	5.87			
	81.9				Kurtosis	0.01			
	84.6				Skewness	-0.65			
	81.5				Range	8.6			
	80.9				Minimum	76.6			
	84.3				Maximum	85.2			
	85.2				Sum	1226.9			
					Count	15			
860	87								
	84								
	83								Mean + 2SD
	84				Mean	84.67			87.45
	84.6				Standard Error	0.57			
	85.4				Median	84.3			
					Mode	84			
					Standard Deviation	1.39			
					Sample Variance	1.93			
					Kurtosis	0.89			
					Skewness	0.88			
					Range	4			
					Minimum	83			
					Maximum	87			
					Sum	508			
					Count	6			

VERTOL 107 - DISTANCES & NOISE LEVELS (FOR GRAPHS)

DISTANCE FROM SOURCE (ft.)	Mean dBA	DISTANCE FROM SOURCE (ft.)	Mean dBA + 2SD
195	93.7	195	100
292	88.5	292	93.4
442	85.3	442	93.4
210	91.5	210	93.1
297	92.2	297	93.6
479	86.7	479	91.9
762	85.1	762	90.9
829	81.8	829	86.6
860	84.7	860	87.5