

Summary of Cruise Data
Idaho Department of Lands use Only

IDLCRUISER_EXCEL_OCT_20_2020
Combined Units or Strata

Cruise Name **Elk Wolf Ton**
Cruise Number **CR600218**
Unit or Type **Total Combined Harvest**
Cruise Date **Jul-23**

Cruise Design **Combined Strata**
Cruise intensity **5.33 (ac/plot)**
Cruise Region **South West 2 pt**
Plots **80**
Acres **426**
Ac. from **Combined cruises**
Cruisers **GB, JJ**

	TOTALS	WP	PP	DF	WL	GF	WH	AF	CE	ES	LP
Volume equation		400MATW108	I15FW2W122	I15FW2W202	400MATW073	I15FW2W017	I00FW2W260	400MATW019	I00FW2W242	I15FW2W093	400MATW108
Net MBF	5,933.4	0.0	5730.7	202.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gross MBF	6,095.8	0.0	5892.8	203.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Cunits	169,999	0.0	165077.9	4921.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tons	44,427	0.0	42976.9	1450.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Local Volume Adjust %		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Seen Defect %		0.0%	2.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unseen Defect %		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Defect %	2.7%	0.0%	2.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ave. MBF/ ac.	13.93	0.0	13.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave. DBH	15.5	0.0	15.8	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave. Height	77.0	0.0	78.0	64.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Required Top Diameter		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Ave. Merch. Height **	56.3	0.0	57.5	41.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Logs / tree **	3.3	0.0	3.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trees / acre	68.9	0.0	63.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft.Logs / acre **	231	0.0	217.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft Logs / MBF net	16.6	0.0	16.2	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft Logs / MBF gross	16.1	0.0	15.6	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave.Board feet / tree	202.2	0.0	211.7	89.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basal Area / Acre	98.5	0.0	94.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% Species / MBF	100%	0.0%	96.6%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% Species / TPA	100%	0.0%	92.3%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Slash<3" (tons/ac.)	17.4	0.0	16.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pulp or product (MBF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sawlog (tons)	44,427	0.0	42976.9	1450.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Sawlog (tons)	1,240	0.0	1151.8	88.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lbs / Bf.	14.98	0.00	15.00	14.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons / MBF	7.5	0.0	7.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Sawlogs (tons)	1,240	0.0	1151.8	88.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Sawlog (MBF@140bf/ton)	174	0.0	161.2	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Topwood @ 6bf/tree	87	0.0	75.2	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% MBF Change for 20 ft Logs **	-9%	0.0%	-10.1%	-3.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% MBF Change for 32 Logs **	0%	0.0%	0.0%	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% MBF Change for 40 foot Logs **	-9%	0.0%	-10.4%	-4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
# measured trees	197	0.0	188.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# counted trees	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# Total count and measure	197	0.0	188.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# Count and measure ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quadratic Diameter	16.2	0.0	16.5	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
** only available for Flewelling equations											

CRUISE STATISTICS

COMBINED Strata

MBF/ acre 13.928
Standard deviation 6.435
Coefficient of variation 46%
Standard error (SE) 943.77
% Combined (%SE) 6.78%

REMARKS

CAUTION this cruise is an estimate only designed to mirror the IDL Forest Inventory System. **ACTUAL LOG SCALE MAYBE LESS** and is reduced by length of log cut other than 16 feet, unseen log cull, and local volume reductions.

Dan Gallagher

Cruise Project Leader

Ben Bolton

Supervisor

Log Size Marketing Classes IDLCRUISER_EXCEL_OCT_20_2020
(For Idaho Department of Lands Use Only) (Uses the USFS National Volume Equations)

Cruise Name Elk Wolf Ton	Cruise Design Variable Plot	Plots 80
Cruise Number CR600218	BAF 40	Acres 426
Unit or Type Total Combined Harvest	Cruise intensity 5.33 (ac/plot)	Ac. from GIS
Cruise Date Jul-23	Cruise Region South West 2 pt	Cruisers GB, JJ

LOG SMALL END DIAMETERS (% of volume by species) (16 foot log base)												
top diameter size class	Net MBF	WP *	PP *	DF *	WL *	GF *	WH *	AF *	CE *	ES *	LP *	Total Volume
	6	0.0	5,728.7	202.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,931.2
	7	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	
	8	0%	5%	15%	0%	0%	0%	0%	0%	0%	0%	
	9	0%	6%	25%	0%	0%	0%	0%	0%	0%	0%	
	10 & 11	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	
	12 & 13	0%	15%	22%	0%	0%	0%	0%	0%	0%	0%	
	14 & 15	0%	20%	16%	0%	0%	0%	0%	0%	0%	0%	
	16 & 17	0%	19%	22%	0%	0%	0%	0%	0%	0%	0%	
	18 & 19	0%	12%	0%	0%	0%	0%	0%	0%	0%	0%	
	20 & 21	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	
	22 & 23	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	
	24 Plus	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	
		0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	

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Summary of Cruise Data
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IDLCRUISER_EXCEL_OCT_20_2020
(Uses the USFS National Volume Equations)

Stand_ID 0
Cruise Name Elk Wolf Ton
Cruise Number CR600218
Unit or Type Unit 1 Harvest
Cruise Date Jul-23

Cruise Design Variable Plot
BAF 40
Cruise intensity 5.37 (ac/plot)
Cruise Region South West 2 pt
Plots 38
Acres 204
Ac. from GIS
Cruisers GB, JJ

	TOTALS	WP	PP	DF	WL	GF	WH	AF	CE	ES	LP
Volume equation		400MATW108	115FW2W122	115FW2W202	400MATW073	115FW2W017	100FW2W260	400MATW019	100FW2W242	115FW2W093	400MATW108
Net MBF	2,979	0	2873	105	0	0	0	0	0	0	0
Gross MBF	3,078	0	2,973	106	0	0	0	0	0	0	0
Net Cunits	86,172	0	83,780	2,393	0	0	0	0	0	0	0
Tons	22,648	0	21,942	706	0	0	0	0	0	0	0
Local Volume Adjust %		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Seen Defect %		0%	3%	0%	0%	0%	0%	0%	0%	0%	0%
Unseen Defect %		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total Defect %	3.2%	0.0%	3.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ave. MBF/ ac.	14.60	0.0	14.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave. DBH	14.7	0.0	14.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave. Height	78.4	0.0	79.0	69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Required Top Diameter		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Ave. Merch. Height **	56	0	57	44	0	0	0	0	0	0	0
Logs / tree **	3.3	0.0	3.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trees / acre	81.0	0.0	76.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft.Logs / acre **	271	0.0	257.6	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft Logs / MBF net	18.5	0.0	18.3	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft Logs / MBF gross	17.9	0.0	17.7	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave.Board feet / tree	180	0	185	105	0	0	0	0	0	0	0
Basal Area / Acre	103.2	0.0	98.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% Species / MBF	100%	0%	96%	4%	0%	0%	0%	0%	0%	0%	0%
% Species / TPA	100%	0%	94%	6%	0%	0%	0%	0%	0%	0%	0%
Slash<3" (tons/ac.)	18.5	0.0	18.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pulp or product (MBF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sawlog (tons)	22,648	0	21,942	706	0	0	0	0	0	0	0
Non Sawlog (tons)	759	0	717	41	0	0	0	0	0	0	0
Lbs / Bf.	15.21	0.00	15.27	13.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons / MBF	7.6	0.0	7.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Sawlogs (tons)	759	0	717	41	0	0	0	0	0	0	0
Non Sawlog (MBF@140bf/ton)	106	0	100	6	0	0	0	0	0	0	0
Topwood @ 6bf/tree	56	0	51	5	0	0	0	0	0	0	0
% MBF Change for 20 ft Logs **	-11%	0%	-11%	-9%	0%	0%	0%	0%	0%	0%	0%
% MBF Change for 32 Logs **	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% MBF Change for 40 foot Logs **	-11%	0%	-11%	-9%	0%	0%	0%	0%	0%	0%	0%
# measured trees	98	0	94	4	0	0	0	0	0	0	0
# counted trees	0	0	0	0	0	0	0	0	0	0	0
count and measure	98	0	94	4	0	0	0	0	0	0	0
Count/Measure Ratio	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quadratic Mean Diameter	15.3	0.0	15.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

** only available for Flewelling equations

CRUISE STATISTICS

COMBINED	Tree Count / Plot	NET VBAR / TREE (in board feet)
BF/ acre 14,602	Ave. trees / plot 2.58	Ave.Vbar of measured trees 142
Standard deviation 10,175	Standard deviation 1.55	Standard deviation 50
Coefficient of variation 70%	Coefficient of variation 60%	Coefficient of variation 35%
Standard error (SE) 1,517	Standard error (SE) 0.3	Standard error (SE) 5.0
% Combined (%SE) 10.4%	% Standard error (%SE) 9.8%	% Standard error (%SE) 3.5%
	Plots taken 38	Trees measured 98
	Optimum # plots for 10% (%SE) 47	Optimum # trees for 10% (%SE) 55
	Optimum # plots for 20% (%SE) 12	Optimum # trees for 20% (%SE) 14

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Log Size Marketing Classes IDLCRUISER_EXCEL_OCT_20_2020
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Cruise Name Elk Wolf Ton	Cruise Design Variable Plot	Plots 38
Cruise Number CR600218	BAF 40	Acres 204
Unit or Type Unit 1 Harvest	Cruise intensity 5.37 (ac/plot)	Ac. from GIS
Cruise Date Jul-23	Cruise Region South West 2 pt	Cruisers GB, JJ

LOG SMALL END DIAMETERS (% of volume by species) (16 foot log base)												
		WP *	PP *	DF *	WL *	GF *	WH *	AF *	CE *	ES *	LP *	Total Volume
top diameter size class	Net MBF	0.0	2,873.4	105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,978.8
	6	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	
	7	0%	5%	25%	0%	0%	0%	0%	0%	0%	0%	
	8	0%	8%	13%	0%	0%	0%	0%	0%	0%	0%	
	9	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	
	10 & 11	0%	18%	14%	0%	0%	0%	0%	0%	0%	0%	
	12 & 13	0%	20%	21%	0%	0%	0%	0%	0%	0%	0%	
	14 & 15	0%	18%	26%	0%	0%	0%	0%	0%	0%	0%	
	16 & 17	0%	12%	0%	0%	0%	0%	0%	0%	0%	0%	
	18 & 19	0%	7%	0%	0%	0%	0%	0%	0%	0%	0%	
	20 & 21	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	
	22 & 23	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	
	24 Plus	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

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Stand_ID 0
Cruise Name Elk Wolf Ton
Cruise Number CR600218
Unit or Type Unit 2 Harvest
Cruise Date Jul-23

Cruise Design Variable Plot
BAF 40
Cruise intensity 5.29 (ac/plot)
Cruise Region South West 2 pt
Plots 42
Acres 222
Ac. from GIS
Cruisers GB, JJ

	TOTALS	WP	PP	DF	WL	GF	WH	AF	CE	ES	LP
Volume equation		400MATW108	I15FW2W122	I15FW2W202	400MATW073	I15FW2W017	100FW2W260	400MATW019	100FW2W242	I15FW2W093	400MATW108
Net MBF	2,955	0	2857	97	0	0	0	0	0	0	0
Gross MBF	3,017	0	2,920	97	0	0	0	0	0	0	0
Net Cunits	83,827	0	81,298	2,529	0	0	0	0	0	0	0
Tons	21,779	0	21,035	744	0	0	0	0	0	0	0
Local Volume Adjust %		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Seen Defect %		0%	2%	0%	0%	0%	0%	0%	0%	0%	0%
Unseen Defect %		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total Defect %	2.1%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Ave. MBF/ ac.	13.31	0.0	12.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave. DBH	16.6	0.0	17.1	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave. Height	75.1	0.0	76.6	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Required Top Diameter		5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Ave. Merch. Height **	56	0	58	39	0	0	0	0	0	0	0
Logs / tree **	3.4	0.0	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Trees / acre	57.8	0.0	52.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft.Logs / acre **	194	0.0	181.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft Logs / MBF net	14.6	0.0	14.1	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 ft Logs / MBF gross	14.3	0.0	13.8	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ave.Board feet / tree	230	0	247	77	0	0	0	0	0	0	0
Basal Area / Acre	94.3	0.0	89.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% Species / MBF	100%	0%	97%	3%	0%	0%	0%	0%	0%	0%	0%
% Species / TPA	100%	0%	90%	10%	0%	0%	0%	0%	0%	0%	0%
Slash<3" (tons/ac.)	16.4	0.0	15.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pulp or product (MBF)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sawlog (tons)	21,779	0	21,035	744	0	0	0	0	0	0	0
Non Sawlog (tons)	481	0	434	47	0	0	0	0	0	0	0
Lbs / Bf.	14.74	0.00	14.72	15.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons / MBF	7.4	0.0	7.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Sawlogs (tons)	481	0	434	47	0	0	0	0	0	0	0
Non Sawlog (MBF@140bf/ton)	67	0	61	7	0	0	0	0	0	0	0
Topwood @ 6bf/tree	31	0	24	7	0	0	0	0	0	0	0
% MBF Change for 20 ft Logs **	-9%	0%	-9%	0%	0%	0%	0%	0%	0%	0%	0%
% MBF Change for 32 Logs **	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
% MBF Change for 40 foot Logs **	-9%	0%	-10%	0%	0%	0%	0%	0%	0%	0%	0%
# measured trees	99	0	94	5	0	0	0	0	0	0	0
# counted trees	0	0	0	0	0	0	0	0	0	0	0
count and measure	99	0	94	5	0	0	0	0	0	0	0
Count/Measure Ratio	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quadratic Mean Diameter	17.3	0.0	17.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0

** only available for Flewelling equations

CRUISE STATISTICS

COMBINED	Tree Count / Plot	NET VBAR / TREE (in board feet)
BF/ acre 13,309	Ave. trees / plot 2.36	Ave.Vbar of measured trees 141
Standard deviation 8,066	Standard deviation 1.25	Standard deviation 42
Coefficient of variation 61%	Coefficient of variation 53%	Coefficient of variation 30%
Standard error (SE) 1,156	Standard error (SE) 0.2	Standard error (SE) 4.2
% Combined (%SE) 8.7%	% Standard error (%SE) 8.2%	% Standard error (%SE) 3.0%
	Plots taken 42	Trees measured 99
	Optimum # plots for 10% (%SE) 36	Optimum # trees for 10% (%SE) 40
	Optimum # plots for 20% (%SE) 9	Optimum # trees for 20% (%SE) 10

REMARKS

CAUTION this cruise is an estimate only designed to mirror the IDL Forest Inventory System. **ACTUAL LOG SCALE MAYBE LESS** and is reduced by length of log cut other than 16 feet, unseen log cull, and local volume reductions.

Dan Gallagher

Cruise Project Leader

Ben Bolton

Supervisor

Log Size Marketing Classes IDLCRUISER_EXCEL_OCT_20_2020
(For Idaho Department of Lands Use Only) (Uses the USFS National Volume Equations)

Cruise Name Elk Wolf Ton	Cruise Design Variable Plot	Plots 42
Cruise Number CR600218	BAF 40	Acres 222
Unit or Type Unit 2 Harvest	Cruise intensity 5.29 (ac/plot)	Ac. from GIS
Cruise Date Jul-23	Cruise Region South West 2 pt	Cruisers GB, JJ

LOG SMALL END DIAMETERS (% of volume by species) (16 foot log base)												
top diameter size class	Net MBF	WP *	PP *	DF *	WL *	GF *	WH *	AF *	CE *	ES *	LP *	Total Volume
		0.0	2,857.3	97.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,954.5
	6	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	
	7	0%	4%	4%	0%	0%	0%	0%	0%	0%	0%	
	8	0%	4%	40%	0%	0%	0%	0%	0%	0%	0%	
	9	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	
	10 & 11	0%	13%	31%	0%	0%	0%	0%	0%	0%	0%	
	12 & 13	0%	20%	9%	0%	0%	0%	0%	0%	0%	0%	
	14 & 15	0%	21%	17%	0%	0%	0%	0%	0%	0%	0%	
	16 & 17	0%	12%	0%	0%	0%	0%	0%	0%	0%	0%	
	18 & 19	0%	11%	0%	0%	0%	0%	0%	0%	0%	0%	
	20 & 21	0%	5%	0%	0%	0%	0%	0%	0%	0%	0%	
	22 & 23	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	
	24 Plus	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	

* only available for Flewelling volume equations