



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Runyon Ex
Sale 341-13-70

District: Tillamook

Date: October 05, 2012

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$695,573.36	\$292,966.00	\$988,539.36
		Project Work:	\$(460,040.00)
		Advertised Value:	\$528,499.36



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timber description

Location: Portions of Sections 9, 10, 11, 15, and 16, T1N, R7W, W.M., Tillamook County, Oregon.

Stand Stocking: 80%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	15	0	95
Alder (Red)	14	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	6" - 7"	8" - 9"	Total
Douglas - Fir	0	0	1,802	2,139	867	0	0	4,808
Alder (Red)	276	87	0	0	0	630	376	1,369
Total	276	87	1,802	2,139	867	630	376	6,177



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Sale 341-13-70

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District: Tillamook

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comments: Pond Values Used: 3rd Quarter Calendar Year 2012.

Western Hemlock and Other Conifers Stumpage Price = Pond Value
minus Logging Cost
 $\$135/\text{MBF} = \$435/\text{MBF} - \$300/\text{MBF}$

Western redcedar & Other Cedars Stumpage Price = Pond Value minus
Logging Cost
 $\$675/\text{MBF} = \$975/\text{MBF} - \$300/\text{MBF}$

Pulp (Conifer and Hardwood) Price = $\$25/\text{MBF}$

SCALING COST ALLOWANCE = $\$5.00/\text{MBF}$

FUEL COST ALLOWANCE = $\$4.00/\text{Gallon}$

HAULING COST ALLOWANCE
Hauling cost equivalent to \$780 daily truck cost.

Other Costs (with Profit & Risk to be added):
Brand and Paint: $\$2/\text{MBF} \times 6,177/\text{MBF} = \$12,354$
Snag Creation: girdle 44/trees $\times \$10/\text{per tree} = \440
TOTAL Other Costs (with Profit & Risk to be added) = $\$12,794$

Other Costs (No Profit & Risk added):
Slash Piling and Sorting: 245 acres $\times \$5/\text{acre cable harvest} =$
 $\$1,225$
Cover Material for Piles: 50 piles $\times \$5/\text{pile} = \250
Motorcycle Filters: 3 filters $\times \$75/\text{filter} = \225
Block Trail: 3 blocks $\times \$75/\text{block} = \225
Trail Clearing: 58 stations $\times \$40/\text{station} = \$2,320$
Equipment Cleaning: 2 machines $\times \$1,000 \text{ per machine} = \$2,000$
TOTAL Other Costs (No Profit & Risk added) = $\$6,245$

ROAD MAINTENANCE
Surfacing: $(20/\text{cy}/\text{mile} \times \$6.60/\text{cy} \times 6.177 \text{ MMBF} \times 5 \text{ miles})/6,177$
MBF = $\$.66$
Interim Grading: $\$250/\text{mile} \times 5 \text{ miles} \times 3 \text{ grading}/6,177$
MBF = $\$.60$
Grading Final Maintenance: $\$500/\text{mile} \times 5 \text{ miles} \times 1 \text{ grading}/6,177$
MBF = $\$.40$
Compaction of surfaced roads: $(87 \text{ stations} \times \$18/\text{station} + \$111$
move-in)/ $6,177 \text{ MBF} = \$0.27$
TOTAL ROAD MAINTENANCE COST: $\$1.93/\text{MBF}$



"STEWARDSHIP IN FORESTRY"

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District: Tillamook

Date: October 05, 2012

logging conditions

combination#: 1 Douglas - Fir 33.83%
 Alder (Red) 29.20%

yarding distance: Long (1,500 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 3.0 **bd. ft / load:** 3,700
cost / mbf: \$301.27

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Medium)

combination#: 2 Douglas - Fir 28.69%
 Alder (Red) 28.60%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Small Tower <=40 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,500
cost / mbf: \$202.45

machines: Log Loader (A)
Stroke Delimber (A)
Tower Yarder (Small)

combination#: 3 Douglas - Fir 37.49%
 Alder (Red) 42.20%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Track Skidder **Process:** Stroke Delimber
tree size: Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF
loads / day: 4.0 **bd. ft / load:** 3,500
cost / mbf: \$102.73

machines: Stroke Delimber (B)



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District: Tillamook

Date: October 05, 2012

logging costs

Operating Seasons:	2.00	Profit Risk:	15.00%
Project Costs:	\$460,040.00	Other Costs (P/R):	\$12,794.00
Slash Disposal:	\$0.00	Other Costs:	\$6,245.00

Miles of Road

Road Maintenance: \$1.93

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	3.5
Alder (Red)	\$0.00	3.0	3.0



"STEWARDSHIP IN FORESTRY"

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Sale 341-13-70

District: Tillamook

Date: October 05, 2012

logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$198.50	\$2.03	\$1.42	\$101.73	\$2.07	\$45.86	\$0.00	\$5.00	\$1.01	\$357.62
Alder (Red)									
\$189.23	\$2.12	\$1.42	\$82.90	\$2.07	\$41.66	\$0.00	\$5.00	\$1.01	\$325.41

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$502.29	\$144.67	\$0.00
Alder (Red)	\$0.00	\$539.41	\$214.00	\$0.00



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summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,808	\$144.67	\$695,573.36
Alder (Red)	1,369	\$214.00	\$292,966.00

Gross Timber Sale Value

Recovery: \$988,539.36

Prepared by: David Luttrell

Phone: 503-815-7025



PROJECT SUMMARY SHEET

Sale: Runyon Ex

CONSTRUCTION

Point	A to B	67+15	stations =	\$85,639.20
Point	C to D	5+30	stations =	\$10,970.16
Point	E to F	2+25	stations =	\$615.33
Point	G to H	1+90	stations =	\$570.33
Point	I to J	12+35	stations =	\$9,410.65
Point	K to L	1+20	stations =	\$480.64
Point	M to N	15+95	stations =	\$6,081.91
Point	O to P	12+35	stations =	\$2,856.40
Point	Q to R	38+95	stations =	\$62,807.71
Point	S to T	6+50	stations =	\$11,342.20
Point	W to X	34+90	stations =	\$45,661.11
Point	Y to Z	8+00	stations =	\$2,036.50
Point	AA to BB	11+85	stations =	\$9,327.87
Point	CC to DD	9+15	stations =	\$9,446.51
Point	EE to FF	5+40	stations =	\$11,386.36
Point	GG to HH	9+15	stations =	\$2,621.36
SUBTOTAL CONSTRUCTION				\$271,254.24

IMPROVEMENT

Point	A to B	3+15	stations =	\$4,164.68
Point	Q to R	66+20	stations =	\$33,778.35
Point	U to V	5+85	stations =	\$3,697.55
Point	W to X	15+10	stations =	\$13,288.15
Point	Y to Z	24+00	stations =	\$5,036.05
SUBTOTAL IMPROVEMENT				\$59,964.78

RECONSTRUCTION

Point	A to B	12+60	stations =	\$40,626.32
Point	M to N	2+00	stations =	\$870.51
SUBTOTAL RECONSTRUCTION				\$41,496.82

SPECIAL PROJECTS

Asphalt Paving of Highway Approach, A to B, 0+00 to 0+65	\$6,330.00
Purchase & Install 18' Gate at 0+85, A to B	\$3,100.00
Purchase & Install 18' Gate at 0+50, Q to R	\$3,100.00
Construct 2"-0" Stockpile: 2000 C Y	\$18,340.00
Construct Modular Steel Bridge, Q to R, 0+85 to 1+20	\$53,340.70
SUBTOTAL SPECIAL PROJECTS	\$84,210.70

MOVE IN **\$3,113.46**

GRAND TOTAL **\$460,040.00**

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

A to B

Construction -	67+15	stations	Improvement -	3+15	stations	Reconstruction -	12+60	stations
	1.27	miles		0.06	miles		0.24	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Slope	Avg. Dist.	To W.A. (mi.)	Outslope/Ditch	Cost per Station		
3+15		6+40	5%			Outslope	\$74	=	\$240.50
6+40		7+00	15%			Outslope	\$107	=	\$64.20
7+00		7+60	50%			Outslope	\$459	=	\$275.40
7+60		7+90	84%		0.1	Outslope	\$3,398	=	\$1,019.40
7+90		8+50	90%		0.1	Outslope	\$4,649	=	\$2,789.40
8+50		9+00	65%		0.1	Outslope	\$1,931	=	\$965.50
9+00		9+55	80%		0.1	Outslope	\$3,398	=	\$1,868.90
9+55		10+30	85%		0.1	Outslope	\$4,023	=	\$3,017.25
17+90		18+45	40%			Outslope	\$243	=	\$133.65
18+45		19+20	50%			Outslope	\$459	=	\$344.25
19+20		20+05	40%			Outslope	\$243	=	\$206.55
20+05		20+40	12%			Outslope	\$90	=	\$31.50
20+40		20+70	5%			Outslope	\$74	=	\$22.20
20+70		21+10	15%			Outslope	\$107	=	\$42.80
20+10		21+45	50%			Outslope	\$459	=	\$619.65
21+45		23+85	40%			Outslope	\$243	=	\$583.20
23+85		24+25	50%			Outslope	\$459	=	\$183.60
24+25		24+50	45%			Outslope	\$269	=	\$67.25
24+50		26+10	15%			Outslope	\$107	=	\$171.20
26+10		28+60	35%			Outslope	\$191	=	\$477.50
28+60		30+45	40%			Outslope	\$243	=	\$449.55
30+45		31+10	52%			Outslope	\$459	=	\$298.35
31+10		31+65	35%			Outslope	\$191	=	\$105.05
31+65		32+60	10%			Outslope	\$90	=	\$85.50
32+60		34+00	20%			Outslope	\$139	=	\$194.60
34+00		37+20	10%			Outslope	\$90	=	\$288.00
43+70		44+80	40%			Outslope	\$243	=	\$267.30
44+80		45+80	75%		0.10	Outslope	\$2,772	=	\$2,772.00
45+80		46+40	10%			Outslope	\$90	=	\$54.00
46+40		46+95	30%			Outslope	\$191	=	\$105.05
52+05		52+85	20%			Outslope	\$139	=	\$111.20
63+85		66+75	35%			Outslope	\$191	=	\$553.90
66+75		67+10	60%		0.1	Outslope	\$1,521	=	\$532.35
67+10		67+95	35%			Outslope	\$191	=	\$162.35
67+95		68+52	60%		0.1	Outslope	\$1,521	=	\$866.97
68+50		68+75	50%			Outslope	\$459	=	\$114.75
68+75		70+55	10%			Outslope	\$90	=	\$162.00
70+55		71+00	50%			Outslope	\$459	=	\$206.55
71+00		73+50	25%			Outslope	\$165	=	\$412.50
73+50		76+95	15%			Outslope	\$107	=	\$369.15
76+95		80+40	25%			Outslope	\$165	=	\$569.25
80+40		81+65	10%			Outslope	\$90	=	\$112.50
81+65		82+90	25%			Outslope	\$165	=	\$206.25

TOTAL \$22,123.02**IMPROVEMENT:** CLEARING AND GRUBBING -

Scattering	0.07	acres @	\$980.00	per acre =	\$68.60	
TOTAL CLEARING AND GRUBBING					\$68.60	

IMPROVEMENT: EXCAVATION -

Road Earthwork	3.15	sta. @	\$25.00	per sta. =	\$78.75	
TOTAL EXCAVATION					\$78.75	

RECONSTRUCTION: CLEARING AND GRUBBING -

Side cast	0.00	acres @	\$660.00	per acre =	\$0.00	
Scattering	0.80	acres @	\$980.00	per acre =	\$784.00	
TOTAL CLEARING AND GRUBBING					\$784.00	

RECONSTRUCTION: EXCAVATION -

Road Earthwork, 52+85 to 63+85	11.00	sta. @	\$150.00	per sta. =	\$1,650.00	
TOTAL EXCAVATION					\$1,650.00	

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	270	LF of 18"	\$4,725.00	60	LF of 24"	\$1,620.00
			\$4,725.00			\$1,620.00
<u>Culvert Stakes & Markers</u>						
7 markers			\$56.00			
			\$56.00			
TOTAL CULVERTS					\$6,401.00	

ROCK

0+65 to	31+50	1,690	cy. of	Crushed	@	\$15.60	per c.y.=	\$26,364.00
5+65 to	31+50	290	cy. of	Crushed	@	\$15.60	per c.y.=	\$4,524.00
Energy Dissipator	64+25	10	cy. of	Riprap	@	\$12.22	per c.y.=	\$122.20
Armor Inlet	64+25	20	cy. of	Riprap	@	\$13.02	per c.y.=	\$260.40
TOTAL ROCK								\$31,270.60

SPECIAL PROJECTS

Excavation from 10+30 to 16+05	10,000	cy @	\$1.40	per cy	\$14,000.00
Haul Excavation from 10+30 to 16+05	10,000	cy @	\$1.14	per cy	\$11,400.00
Spread and Compact Excavation from 10+30 to 16+05 @ WA @ 6+00	10,000	cy @	\$0.25	per cy	\$2,500.00
Clear and Grub from 10+30 to 17+90	0.90	acres @	\$980.00	per acre	\$882.00
Drift Material for Fill from 16+05 to 16+90	185	cy @	\$0.75	per cy	\$138.75
Compact Material for Fill from 16+05 to 16+90	185	cy @	\$0.45	per cy	\$83.25
Excavate Material from 17+20 to 17+90	2,450	cy @	\$0.75	per cy	\$1,837.50
End Haul Material from 17+20 to 17+90	2,450	cy @	\$1.11	per cy	\$2,719.50
Spread and Compact Excavation from 17+20 to 17+90 @ WA @ 6+00	2,450	cy @	\$0.25	per cy	\$612.50
Excess Excavation from 17+90 to 18+60	300	cy @	\$0.75	per cy	\$225.00
Compact Excess Excavation 17+90 to 18+60	300	cy @	\$0.45	per cy	\$135.00
Drift Material from 21+30 to 22+00 for Fills from 19+45 to 21+30	565	cy @	\$0.75	per cy	\$423.75
Compact Material for Fills from 19+45 to 21+30	565	cy @	\$0.45	per cy	\$254.25
Excavate Excess Material from 24+40 to 26+35	775	cy @	\$1.40	per cy	\$1,085.00
Haul Excess Material to Waste Area from 22+30 to 23+60	775	cy @	\$0.97	per cy	\$751.75
Spread and Compact Ex. from 24+40 to 26+35 @ WA @ 22+30 to 23+60	775	cy @	\$0.25	per cy	\$193.75
Drift excess material from 31+50 to 32+20 to Waste Area @ 31+00	365	cy @	\$0.75	per cy	\$273.75
Spread and Compact Excavation @ Waste Area @ 31+00	365	cy @	\$0.25	per cy	\$91.25
Excavate Material from 37+20 to 39+30 & 42+85 to 43+70	1500	cy @	\$1.40	per cy	\$2,100.00
Haul Excavation to Fills from 39+30 to 42+85 & Waste Area @42+25	1110	cy @	\$0.98	per cy	\$1,087.80
Compact Material for Fills from 39+30 to 42+85	1620	cy @	\$0.45	per cy	\$729.00
Compact Excavation @ Waste Area @ 42+25	390	cy @	\$0.25	per cy	\$97.50
Clear and Grub from 37+20 to 43+70	0.75	acres @	\$980.00	per acre	\$735.00
Excavate Material from 49+10 to 49+80 for Fill from 46+95 to 49+10	555	cy @	\$0.75	per cy	\$416.25
Compact Fill from 46+95 to 49+10	555	cy @	\$0.45	per cy	\$249.75
Clear and Grub from 46+95 to 49+80	0.25	acres @	\$980.00	per acre	\$245.00
Excavate Material from 49+80 to 52+05	2,040	cy @	\$1.40	per cy	\$2,856.00
Haul Excavated Material from 49+80 to 52+05 to Waste Area @ 42+25, lt.	2,040	cy @	\$1.05	per cy	\$2,142.00
Spread and Compact Excavation @ Waste Area @ 42+25, left	2,040	cy @	\$0.25	per cy	\$510.00
Clear and Grub from 49+80 to 52+05	0.3	acres @	\$980.00	per acre	\$294.00
Excavate existing sidecast from old cat road	265	cy @	\$1.40	per cy	\$371.00
Haul existing sidecast to waste area @ 42+25, left	265	cy @	\$1.17	per cy	\$310.05
Spread & compact material @ wasre area @ 42+25, left	265	cy @	\$0.25	per cy	\$66.25
Drift Material from 58+35 to 59+95 for Fill from 57+15 to 58+35	2.8	stations @	\$195.00	per station	\$546.00
Borrow Material from Bank from 63+00 to 63+85 for fill for 24" Culvert	270	cy @	\$0.75	per cy	\$202.50
Compact Material for Fill from 63+85 to 64+45	270	cy @	\$0.45	per cy	\$121.50
Cut and Drift material from 64+45 to 52+90	18.55	stations @	\$140.00	per station	\$2,597.00
Grade and shape road	82.90	stations @	\$15.50	per station	\$1,284.95
Construct 4 Waste Areas	30.00	hours @	\$145.00	per hour	\$4,350.00
Roll subgrade w/ vibratory roller	82.90	stations @	\$13.20	per station	\$1,094.28
Grass seed and fertilizer	4.75	acres @	\$220.00	per acre	\$1,045.00
Hydroseeding	5.60	acres @	\$1,244.00	per acre	\$6,966.40
Mulching	0.05	acres @	\$600.00	per acre	\$30.00
TOTAL SPECIAL PROJECTS					\$68,054.23

GRAND TOTAL**\$130,430.20**

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

C to D

Construction -	<u>5+30</u>	stations	Improvement -	<u>0+00</u>	stations	Reconstruction -	<u>0+00</u>	stations
	0.10	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
2+70		3+20	15%		Outslope	\$107	=	\$53.50
3+20		3+80	20%		Outslope	\$139	=	\$83.40
3+80		5+30	35%		Outslope	\$191	=	\$286.50
								TOTAL
								\$423.40

ROCK

0+00 to	0+65	40	cy. of	Crushed	@	\$0.00 per c.y.=	\$0.00
Junction Rock	0+00	20	cy. of	Crushed 4"-0"	@	\$15.68 per c.y.=	\$313.60
							TOTAL ROCK
							\$895.60

SPECIAL PROJECTS

Excavation from 0+00 to 2+70	2770	cy. @	\$1.40	per cy.	\$3,878.00
Haul Excavation from 0+00 to 2+70	2770	cy. @	\$1.12	per cy.	\$3,102.40
Spread and Compact Excavation from 0+00 to 2+70	2770	cy. @	\$0.25	per cy.	\$692.50
Clear and grub from 0+00 to 2+70 including Sidecast Pullback	0.38	acres @	980.00	per acre	\$372.40
Excavate existing sidecast from old cat road from 1+00 to 2+55	375	cy. @	\$1.40	per cy.	\$525.00
End haul existing sidecast from old cat road from 1+00 to 2+55	375	cy. @	\$1.12	per cy.	\$420.00
Compact existing sidecast from old cat road @ waste area @ A to B, 6+00	375	cy. @	\$0.25	per cy.	\$93.75
Clear and grub from 1+00 to 2+55 for sidecast pullback	0.0	acres @	\$980.00	per acre	\$0.00
Construct Landing	1.00	@	\$250.00	each	\$250.00
Clear and Grub from 0+00 to 2+70	0.00	acres @	\$980.00	per acre	\$0.00
Fill roadway @ area of 0+00 -	0.00	hours @	\$130.00	per hour	\$0.00
Fill ditch/emb from 0+00 to 0+00 -	0.00	hours @	\$130.00	per hour	\$0.00
Remove log cribbing @ 0+00 -	0.00	hours @	\$130.00	per hour	\$0.00
Grade and shape road -	5.30	stations @	\$15.50	per station	\$82.15
Proof-Roll subgrade prior to rocking	0.00	stations @	\$4.70	per station	\$0.00
Construct/Install rubber water diverter -	0.00	@	\$360.00	each	\$0.00
Subgrade protection areas -	0.00	@	\$153.47	each	\$0.00
Roll subgrade w/ vibratory roller	5.30	stations @	\$13.20	per station	\$69.96
Remove log culvert @ stations: 0+00, 0+00 & 0+00 -	0.00	hours @	\$130.00	per hour	\$0.00
Remove large stumps -	1.00	lump sum @	\$0.00		\$0.00
Remove culverts from state lands	0.00	@	\$0.00	total	\$0.00
Grass seed and fertilize -	0.75	acres @	\$220.00	per acre	\$165.00
Mulching -	0.000	acres @	\$600.00	per acre	\$0.00
					TOTAL SPECIAL PROJECTS
					\$9,651.16

GRAND TOTAL

\$10,970.16

SUMMARY OF CONSTRUCTION COST

Sale:	Runyon Ex			Road:	E to F		
<u>Construction -</u>		<u>2+25</u> stations	<u>Improvement -</u>	<u>0+00</u> stations	<u>Reconstruction -</u>	<u>0+00</u> stations	
		0.04 miles		0.00 miles		0.00 miles	

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -							
	<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>
	0+00		0+20	35%		Outslope	\$191
	0+20		0+70	5%		Outslope	\$74
	0+70		1+35	25%		Outslope	\$165
	1+35		2+25	15%			\$107
							=
							\$38.20
							\$37.00
							\$107.25
							\$96.30
							TOTAL
							\$278.75

SPECIAL PROJECTS							
Construct Landing	1.00	@	\$250.00	each	\$250.00		
Grade and shape road -	2.25	stations @	\$15.50	per station	\$34.88		
Roll subgrade w/ vibratory roller	2.25	stations @	\$13.20	per station	\$29.70		
Grass seed and fertilize -	0.10	acres @	\$220.00	per acre	\$22.00		
				TOTAL SPECIAL PROJECTS	\$336.58		
				GRAND TOTAL		\$615.33	

SUMMARY OF CONSTRUCTION COST

Sale:	<u>Runyon Ex</u>			Road:	<u>G to H</u>		
<u>Construction -</u>		<u>1+90</u>	stations	<u>Improvement -</u>		<u>0+00</u>	stations
		0.04	miles			0.00	miles
<u>Reconstruction -</u>		<u>0+00</u>	stations			<u>0+00</u>	stations
						0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -							
	<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>
	0+00		1+90	10%	To W.A. (mi.)	Outslope	\$90
							=
							\$171.00
							TOTAL
							\$171.00

SPECIAL PROJECTS							
Landing Construction	1.00	@		\$250.00	each	\$250.00	
Construct Turnaround	1.00	@		\$75.00	each	\$75.00	
Grade and shape road -	1.90	stations @		\$15.50	per station	\$29.45	
Roll subgrade w/ vibratory roller prior to rocking -	1.90	stations @		\$13.20	per station	\$25.08	
Grass seed and fertilize -	0.09	acres @		\$220.00	per acre	\$19.80	
					TOTAL SPECIAL PROJECTS		\$399.33
					GRAND TOTAL		\$570.33

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

I to J

Construction -	<u>12+35</u>	stations	Improvement -	<u>0+00</u>	stations	Reconstruction -	<u>0+00</u>	stations
	0.23	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
0+00		0+90	40%		Outslope	\$243	=	\$218.70
0+90		3+05	25%		Outslope	\$165	=	\$354.75
3+05		5+45	25%		Ditch	\$219	=	\$525.60
5+45		5+70	32%		Outslope	\$191	=	\$47.75
5+70		6+25	10%		Outslope	\$90	=	\$49.50
6+25		7+40	30%		Outslope	\$191	=	\$219.65
7+40		8+00	15%		Outslope	\$107	=	\$64.20
8+00		8+30	45%		Outslope	\$269	=	\$80.70
8+30		9+25	60%		Outslope	\$1,493	=	\$1,418.35
9+25		9+80	30%		Outslope	\$191	=	\$105.05
9+80		10+50	22%		Outslope	\$139	=	\$97.30
10+50		11+10	30%		Outslope	\$191	=	\$114.60
11+10		11+50	23%		Outslope	\$139	=	\$55.60
11+50		12+00	35%		Outslope	\$191	=	\$95.50
12+00		12+35	22%		Outslope	\$139	=	\$48.65
								TOTAL
								\$3,495.90

CULVERTS - MATERIALS & INSTALLATION

Culverts

80	LF of 18"	\$1,400.00	0	LF of 24"	\$0.00
0	LF of 30"	\$0.00	60	LF of 36"	\$1,980.00
		<u>\$1,400.00</u>			<u>\$1,980.00</u>

Culvert Stakes & Markers

2 markers	<u>\$16.00</u>
	\$16.00

TOTAL CULVERTS **\$3,396.00**

ROCK

Armor Inlet	6+15/7+65	30	cy. of	Riprap	@	\$12.89 per c.y.=	\$386.70
Energy Dissipator	6+15/7+65	20	cy. of	Riprap	@	\$12.09 per c.y.=	\$241.80

TOTAL ROCK **\$628.50**

SPECIAL PROJECTS

Drift material from 2+80 to 3+95	1.15	stations @	\$140.00	per station	\$161.00
Drift material, 5+90 to 12+35 from cuts to build fills & landing	6.45	stations @	\$140.00	per station	\$903.00
Grade and shape road -	12.35	stations @	\$15.50	per station	\$191.43
Roll subgrade w/ vibratory roller	12.35	stations @	\$13.20	per station	\$163.02
Grass seed and fertilize -	1.19	acres @	\$220.00	per acre	\$261.80
Mulching, 5+90 to 8+95 for fills/cuts around 2 streams	0.35	acres @	\$600.00	per acre	\$210.00
					<u>TOTAL SPECIAL PROJECTS</u>
					\$1,890.25

GRAND TOTAL **\$9,410.65**

SUMMARY OF CONSTRUCTION COST

Sale:			<u>Runyon Ex</u>			Road:			<u>K to L</u>		
<u>Construction -</u>			<u>1+20</u>			<u>stations</u>			<u>Improvement -</u>		
			0.02			miles					
									<u>Reconstruction -</u>		
									<u>0+00</u>		
									miles		

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -								
	<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	
	0+00		1+20	10%	<u>To W.A. (mi.)</u>	Outslope	\$90	=
								\$108.00
								TOTAL
								\$108.00

SPECIAL PROJECTS								
Landing Construction	1.00	@		\$250.00	each		\$250.00	
Construct Turnaround	1.00	@		\$75.00	each		\$75.00	
Grade and shape road -	1.20	stations @		\$15.50	per station		\$18.60	
Roll subgrade w/ vibratory roller	1.20	stations @		\$13.20	per station		\$15.84	
Grass seed and fertilize -	0.06	acres @		\$220.00	per acre		\$13.20	
					TOTAL SPECIAL PROJECTS			\$372.64
					GRAND TOTAL			\$480.64

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

M to N

Construction -	<u>15+95</u>	stations	Improvement -	<u>0+00</u>	stations	Reconstruction -	<u>2+00</u>	stations
	0.30	miles		0.00	miles		0.04	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
2+00		3+00	25%		Outslope	\$165	=	\$165.00
3+00		3+40	10%		Outslope	\$90	=	\$36.00
3+40		4+35	50%		Outslope	\$459	=	\$436.05
4+35		7+90	25%		Outslope	\$165	=	\$585.75
7+90		10+80	15%		Outslope	\$107	=	\$310.30
10+80		14+70	40%		Outslope	\$243	=	\$947.70
14+70		17+95	25%		Outslope	\$165	=	\$536.25
								TOTAL EXCAVATION
								\$3,017.05

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.190	acres @	\$980.00 per acre =	<u>\$186.20</u>	
				TOTAL CLEARING AND GRUBBING	\$186.20

RECONSTRUCTION: EXCAVATION -

Road Earthwork	2.00	sta. @	\$150.00 per sta. =	<u>\$300.00</u>	
				TOTAL EXCAVATION	\$300.00

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	50	LF of 18"	<u>\$875.00</u>	0	LF of 24"	\$0.00
			\$875.00			\$0.00
<u>Culvert Stakes & Markers</u>						
1 markers			<u>\$8.00</u>			
			\$8.00			
						TOTAL CULVERTS
						\$883.00

ROCK

Fill Armor	9+65	10	cy. of	Riprap	@	\$13.09 per c.y.=	\$130.90
Energy Dissipator	9+65	10	cy. of	Riprap	@	\$12.29 per c.y.=	\$122.90
							TOTAL ROCK
							\$253.80

SPECIAL PROJECTS

Drift material for switchback construction, 2+80 to 4+25	1.45	stations @	\$140.00	per station	\$203.00
Drift material from cuts, 7+00 to 11+85 for fills, 7+90 to 10+80	3.95	stations @	\$140.00	per station	\$553.00
Construct Turnarounds	1.00	each @	\$75.00	per TA	\$75.00
Construct Heliport	1.00	each @	\$285.00	per HP	\$285.00
Construct Landing	1.00	@	\$250.00	each	\$250.00
Grade and shape road -	17.95	stations @	\$15.50	per station	\$278.23
Roll subgrade w/ vibratory	17.95	stations @	\$13.20	per station	\$236.94
Grass seed and fertilize -	1.66	acres @	\$220.00	per acre	\$365.20
Mulching from 9+15 to 10+15 for fill w/ 18"x50' Culvert	0.11	acres @	\$600.00	per acre	\$66.00
					TOTAL SPECIAL PROJECTS
					\$2,312.37

GRAND TOTAL

\$6,952.42

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

O to P

Construction -	12+35	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.23	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
0+00		1+10	10%		Outslope	\$90	=	\$99.00
1+10		1+60	25%		Outslope	\$165	=	\$82.50
1+60		2+20	47%		Outslope	\$274	=	\$164.40
2+20		3+35	30%		Outslope	\$191	=	\$219.65
3+35		4+55	10%		Outslope	\$90	=	\$108.00
TOTAL								\$673.55

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	40	LF of 18"	\$700.00	0	LF of 24"	\$0.00
			\$700.00			\$0.00
<u>Half Rounds</u>	1	markers	\$8.00			
			\$8.00			
TOTAL CULVERTS						\$708.00

SPECIAL PROJECTS

Construct Landing	1.00	@	\$250.00	each	\$250.00
Drift material, 0+00 to 0+70, for fill, 0+70 to 1+95	1.95	stations @	\$140.00	per station	\$273.00
Drift material, 3+70 to 4+55, for fill, 3+05 to 3+70	1.50	stations @	\$140.00	per station	\$210.00
Construct Turnaround	1.00	@	\$75.00	each	\$75.00
Grade and shape road -	12.35	stations @	\$15.50	per station	\$191.43
Roll subgrade w/ vibratory	12.35	stations @	\$13.20	per station	\$163.02
Grass seed and fertilize -	1.42	acres @	\$220.00	per acre	\$312.40
TOTAL SPECIAL PROJECTS					\$1,474.85

GRAND TOTAL **\$2,856.40**

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

Q to R

Construction -	38+95	stations	Improvement -	66+20	stations	Reconstruction -	0+00	stations
	0.74	miles		1.25	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
66+20		69+55	35%		Outslope	\$191	=	\$639.85
69+55		71+60	60%		Outslope	\$1,493	=	\$3,060.65
71+60		72+50	70%	0.11	Outslope	\$2,352	=	\$2,116.80
72+50		73+70	70%	0.13	Outslope	\$2,352	=	\$2,822.40
73+70		77+85	35%		Outslope	\$191	=	\$792.65
77+85		79+15	65%	0.1	Outslope	\$1,931	=	\$2,510.30
79+15		81+25	75%	0.3	Outslope	\$2,959	=	\$6,213.90
81+25		85+45	35%		Outslope	\$191	=	\$802.20
85+45		87+05	40%		Outslope	\$243	=	\$388.80
87+05		89+05	15%		Outslope	\$107	=	\$214.00
89+05		96+60	70%	0.51	Outslope	\$2,671	=	\$20,166.05
96+60		97+15	20%		Outslope	\$139	=	\$76.45
97+15		97+95	40%		Outslope	\$243	=	\$194.40
97+95		99+15	60%	0.1	Outslope	\$1,521	=	\$1,825.20
99+15		99+75	35%		Outslope	\$191	=	\$114.60
101+40		102+35	15%		Outslope	\$107	=	\$101.65
102+35		104+20	60%	0.1	Outslope	\$1,521	=	\$2,813.85
104+20		105+05	20%	0.0	Outslope	\$139	=	\$118.15
								TOTAL
								\$44,971.90

IMPROVEMENT: CLEARING AND GRUBBING -

Roadside Brushing	1.25	miles	@	\$800.00	per mile =	\$1,000.00	
Scattering, 47+90 to 66+20	0.850	acres	@	\$245.00	per acre =	\$208.25	
TOTAL CLEARING AND GRUBBING							\$1,208.25

IMPROVEMENT: EXCAVATION -

Road Earthwork: 0+00-47+90	47.90	sta.	@	\$25.00	per sta. =	\$1,197.50	
Road Earthwork: 47+90-66+20	18.30	sta.	@	\$50.00	per sta. =	\$915.00	
Pull ditch (11+45-12+95) & endhaul waste material	2.00	sta.	@	\$60.00	per sta. =	\$120.00	
TOTAL EXCAVATION							\$2,232.50

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	40	LF of 18"	\$700.00	0	LF of 24"	\$0.00	
			\$700.00			\$0.00	
<u>Culvert Stakes & Markers</u>	1	markers	\$8.00				
			\$8.00				
TOTAL CULVERTS							\$708.00

ROCK

1+20 to	55+15	2,840	cy. of	Crushed	@	\$9.40	per c.y. =	\$26,696.00	
1+20 to	4+50	280	cy. of	Pit Run	@	\$5.23	per c.y. =	\$1,464.40	
0+00 to	0+85	80	cy. of	Crushed	@	\$14.80	per c.y. =	\$1,184.00	
Armor Bridge	0+85/1+20	120	cy. of	Riprap	@	\$13.13	per c.y. =	\$1,575.60	
TOTAL ROCK									\$31,282.40

SPECIAL PROJECTS

Additional Compaction for Fills from 74+40 to 77+75	945	cy @	\$0.20	per cy	\$189.00	
Additional Compaction for Material for Fills from 82+65 to 84+50	1065	cy @	\$0.20	per cy	\$213.00	
Cut and Drift from 81+70 to 82+70	1	stations @	\$140.00	per station	\$140.00	
Excavate material for fills from 82+70 to 85+05	1025	cy @	\$0.75	per cy	\$768.75	
Compact material for fills from 82+70 to 85+05	1025	cy @	\$0.45	per cy	\$461.25	
Compact material for fill from 87+05 to 88+55	200	cy @	\$0.45	per cy	\$90.00	
Cutting Thru Ridge, 96+60 to 97+15, Excavate & Load Excess Material	825	cy @	\$1.40	per cy	\$1,155.00	
Cutting Thru Ridge, 96+60 to 97+15, Haul Excess Material	825	cy @	\$1.01	per cy	\$833.25	
Cutting Thru Ridge, 96+60 to 97+15, Compact Ex. Mat. @ WA @ 101+90	825	cy @	\$0.25	per cy	\$206.25	
Down Cutting Ridge, 99+75-101+40, Excavate and Load Excess Material	1790	cy @	\$1.40	per cy	\$2,506.00	
Down Cutting Ridge, 99+75 to 101+40, Haul Excess Material	1790	cy @	\$0.95	per cy	\$1,700.50	
Down Cutting Ridge, 99+75 to 101+40, Compact Excess Material	1790	cy @	\$0.25	per cy	\$447.50	
Construct waste areas -	15	hours @	\$130.00	per hour	\$1,950.00	
Construct Landing	1	@	\$285.00	each	\$285.00	
Grade and shape road -	105.15	stations @	\$15.50	per station	\$1,629.83	
Roll subgrade w/ vibratory roller	105.15	stations @	\$13.20	per station	\$1,387.98	
Remove culverts from state lands	1.00	@	\$142.90	total	\$142.90	
Grass seed and fertilize -	9.06	acres @	\$220.00	per acre	\$1,993.20	
Mulching -	0.1	acres @	\$600.00	per acre	\$60.00	
TOTAL SPECIAL PROJECTS						\$16,159.41

GRAND TOTAL

\$96,586.06

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

S to T

Construction -	6+50	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.12	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
0+00		0+65	20%		Outslope	\$139	=	\$90.35
0+65		1+40	20%		Ditch	\$183	=	\$137.25
1+40		4+75	20%		Outslope	\$139	=	\$465.65
4+75		5+85	20%		Ditch	\$183	=	\$201.30
5+85		6+50	20%		Outslope	\$139	=	\$90.35
								TOTAL
								\$984.90

CULVERTS - MATERIALS & INSTALLATION

Culverts

80	LF of 18"	\$1,400.00	40	LF of 24"	\$1,080.00
0	LF of 30"	\$0.00	40	LF of 36"	\$1,320.00
		<u>\$1,400.00</u>			<u>\$2,400.00</u>

Culvert Stakes & Markers

4 markers	\$32.00
	<u>\$32.00</u>

TOTAL CULVERTS \$3,832.00

ROCK

0+00 to	6+50	380	cy. of	Crushed	@	\$9.17 per c.y.=	\$3,484.60
Landing Rock	6+50	100	cy. of	Crushed 4"-0"	@	\$9.25 per c.y.=	\$925.00
Fill Armor	2+45/4+00	30	cy. of	Riprap	@	\$6.85 per c.y.=	\$205.50
Junction Rock	0+00	20	cy. of	Crushed	@	\$8.67 per c.y.=	\$173.40
Energy Dissipator	2+45/4+00	30	cy. of	Riprap	@	\$6.85 per c.y.=	\$205.50
							TOTAL ROCK
							\$4,994.00

SPECIAL PROJECTS

Purchase and install construction fabric from 0+65 to 1+40	105	sq. yd.	\$2.15	per sq. yd.	225.75
Drifting Material from 1+40 to 2+35 for fill to 2+35 to 2+65	1.25	stations @	\$140.00	per station	\$175.00
Drift Material from 4+60 to 6+20 for Fills from 3+40 to 4+60	385	cy	\$0.75	per cy	\$288.75
Compact Material for fills from 3+40 to 4+60	385	cy	\$0.45	per cy	\$173.25
Construct landing	1.00	@	\$200.00	each	\$200.00
Grade and shape road -	6.50	stations @	\$15.50	per station	\$100.75
Roll subgrade w/ vibratory roller prior to rocking -	6.50	stations @	\$13.20	per station	\$85.80
Grass seed and fertilize -	0.60	acres @	\$220.00	per acre	\$132.00
Mulching Ditches from 0+65 to 1+40 and 4+75 to 5+85	0.25	acres @	\$600.00	per acre	\$150.00
					<u>TOTAL SPECIAL PROJECTS</u>
					\$1,531.30

GRAND TOTAL \$11,342.20

SUMMARY OF CONSTRUCTION COST

Sale:		<u>Runyon Ex</u>		Road:		<u>U to V</u>		
<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>5+85</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.11	miles		0.00	miles
IMPROVEMENT: CLEARING AND GRUBBING -								
Roadside Brushing			0.11	miles	@	\$800.00 per mile =	\$88.00	
TOTAL CLEARING AND GRUBBING							\$88.00	
IMPROVEMENT: EXCAVATION -								
Road Earthwork			5.85	sta.	@	\$25.00 per sta. =	\$146.25	
TOTAL EXCAVATION							\$146.25	
ROCK								
0+00	to	5+85	350	cy. of	Crushed	@	\$8.92 per c.y.=	\$3,122.00
TOTAL ROCK							\$3,295.40	
SPECIAL PROJECTS								
Grade and shape road -			5.85	stations	@	\$15.50 per station	\$90.68	
Roll subgrade w/ vibratory roller prior to rocking -			5.85	stations	@	\$13.20 per station	\$77.22	
TOTAL SPECIAL PROJECTS							\$167.90	
GRAND TOTAL							\$3,697.55	

SUMMARY OF CONSTRUCTION COST

Sale: **Runyon Ex**

Road: **W to X**

Construction -	34+90	stations	Improvement -	15+10	stations	Reconstruction -	0+00	stations
	0.66	miles		0.29	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
6+90		8+45	25%		Outslope	\$165	=	\$255.75
8+45		9+35	45%		Outslope	\$269	=	\$242.10
9+35		13+15	30%		Outslope	\$191	=	\$725.80
13+15		14+65	20%		Outslope	\$139	=	\$208.50
22+85		24+60	20%		Outslope	\$139	=	\$243.25
24+60		25+95	75%	0.1	Outslope	\$2,772	=	\$3,742.20
25+95		26+75	35%		Outslope	\$191	=	\$152.80
26+75		27+45	10%		Outslope	\$90	=	\$63.00
29+10		29+80	50%		Outslope	\$459	=	\$321.30
35+30		38+45	75%	0.3	Outslope	\$2,959	=	\$9,320.85
40+95		42+15	40%		Outslope	\$243	=	\$291.60
42+15		42+85	60%	0.4	Outslope	\$1,682	=	\$1,177.40
42+85		43+75	45%		Outslope	\$269	=	\$242.10
43+75		45+45	35%		Outslope	\$191	=	\$324.70
45+45		46+60	45%		Outslope	\$269	=	\$309.35
TOTAL								\$17,620.70

IMPROVEMENT: CLEARING AND GRUBBING -

Roadside Brushing, 0+00 to 6+90 and 14+65 to 22+85	0.29	miles @	\$800.00 per mile =	\$232.00
Scattering, 0+00 to 6+90 and 14+65 to 22+85	0.69	acres @	\$245.00 per acre =	\$169.05
TOTAL CLEARING AND GRUBBING				\$401.05

IMPROVEMENT: EXCAVATION -

Road Earthwork, 0+00 to 6+90 and 14+65 to 22+85	15.10	sta. @	\$50.00 per sta. =	\$755.00
TOTAL EXCAVATION				\$755.00

SPECIAL PROJECTS

Excavate Material from 6+90 to 13+15 for Fills	960	cy @	\$0.75 per cy	\$720.00
Compact Material for Fills from 6+90 to 13+15	960	cy @	\$0.45 per cy	\$432.00
Compact 700 Cu. Yd's from 24+60 to 25+95 for fill from 23+15 to 24+05	700	cy @	\$0.20 per cy	\$140.00
End Haul Excess Material from 25+95 to 26+75 to WA @ 23+90	495	cy @	\$2.60 per cy	\$1,287.00
Drift Material from 27+45 to 29+10 to WA @ 27+35	1105	cy @	\$0.75 per cy	\$828.75
Compact Material from 27+45 to 29+10 @ WA @ 27+35	1105	cy @	\$0.25 per cy	\$276.25
Clearing and Grubbing from 27+45 to 29+10	0.20	acres @	\$980.00 per acre	\$196.00
Excavating Material from 29+80 to 31+15=Waste Area	1050	cy @	\$0.75 per cy	\$787.50
Compacting Material from 29+80 to 31+15=Waste Area	1050	cy @	\$0.45 per cy	\$472.50
Clearing and Grubbing from 29+80 to 31+15=Waste Area	0.15	acres @	\$980.00 per acre	\$147.00
Cutting Thru Ridge- Excavate Material from 31+15 to 35+30	3750	cy @	\$1.40 per cy	\$5,250.00
Hauling Material from 31+15 to 35+30 to Waste Area @ 23+00, left	3750	cy @	\$1.06 per cy	\$3,975.00
Compacting Material from 31+15 to 35+30 @ Waste Area @ 23+00, left	3750	cy @	\$0.45 per cy	\$1,687.50
Clear and Grub from 31+15 to 35+30	0.52	acres @	\$980.00 per acre	\$509.60
Excavating Material from 38+45 to 40+95	2315	cy @	\$1.40 per cy	\$3,241.00
End-Hauling Material from 38+45 to 40+95 to Waste Area @ 23+00, left	2315	cy @	\$1.19 per cy	\$2,754.85
Compacting Material from 38+45 to 40+95 @ Waste Area @ 23+00, left	2315	cy @	\$0.45 per cy	\$1,041.75
Clear and Grub from 38+45 to 40+95	0.34	acres @	\$980.00 per acre	\$333.20
Drift excess material from 40+95 to 46+60	5.65	stations @	\$200.00 per station	\$1,130.00
Excavate Excess Mat. from Rd. & Landing Constr. from 46+60 to 49+00	3180	cy @	\$1.40 per cy	\$4,452.00
End Haul Material to Waste Area @ 45+50, Right	3180	cy @	\$0.97 per cy	\$3,084.60
Compact Excess Material @ Waste Area @ 45+50, Right	3180	cy @	\$0.25 per cy	\$795.00
Clear and Grub from 46+60 to 49+00	0.33	acres @	\$980.00 per acre	\$323.40
Construct waste areas -	20.00	hours @	\$130.00 per hour	\$2,600.00
Grade and shape road -	50.00	stations @	\$15.50 per station	\$775.00
Roll subgrade w/ vibratory roller	50.00	stations @	\$13.20 per station	\$660.00
Grass seed and fertilize -	10.33	acres @	\$220.00 per acre	\$2,272.60
TOTAL SPECIAL PROJECTS				\$40,172.50

GRAND TOTAL **\$58,949.25**

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

Y to Z

Construction -	<u>8+00</u>	stations	Improvement -	<u>24+00</u>	stations	Reconstruction -	<u>0+00</u>	stations
	0.15	miles		0.45	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
24+00		27+35	10%			\$90	=		\$301.50
27+35		32+00	35%			\$191	=		\$888.15
TOTAL									\$1,189.65

IMPROVEMENT: CLEARING AND GRUBBING -

Roadside Brushing	0.45	miles	@	\$800.00	per mile =	\$360.00	
Scattering, 0+00 to 24+00	1.10	acres	@	\$245.00	per acre =	\$269.50	
TOTAL CLEARING AND GRUBBING							\$651.94

IMPROVEMENT: EXCAVATION -

Road Earthwork	24.00	sta.	@	\$25.00	per sta. =	\$600.00	
Widening	361	cy.	@	\$1.40	per c.y. =	\$505.40	
Slope Stabilization Prep.	121	cy.	@	\$1.40	per c.y. =	\$169.40	
TOTAL EXCAVATION							\$1,274.80

IMPROVEMENT: ENDHAUL -

Widening	1+35	to	2+35	361	cy.	@	\$0.93	per c.y. =	\$335.73	
Slope Stabilization Prep.	1+35	to	2+35	121	cy.	@	\$0.93	per c.y. =	\$112.53	
Spread & compact				482	cy.	@	\$0.25	per c.y. =	\$120.50	
TOTAL ENDHAUL										\$568.76

SPECIAL PROJECTS

Excavating Material for Fills from 26+65 to 28+00	500.00	cy @	\$1.40	per cy	\$700.00	
Haul Material for Fills from 26+65 to 28+00	500.00	cy @	\$1.01	per cy	\$505.00	
Compact Material for Fills from 26+65 to 28+00	500.00	cy @	\$0.45	per cy	\$225.00	
Drift excess excavation from landing construction to 30+15 to 30+60	1.85	stations @	\$140.00	per station	\$259.00	
Construct Landings	1.00	@	\$285.00	each	\$285.00	
Grade and shape road -	32.00	stations @	\$15.50	per station	\$496.00	
Roll subgrade w/ vibratory roller	32.00	stations @	\$13.20	per station	\$422.40	
Grass seed and fertilize -	2.25	acres @	\$220.00	per acre	\$495.00	
TOTAL SPECIAL PROJECTS						\$3,387.40

GRAND TOTAL

\$7,072.55

SUMMARY OF CONSTRUCTION COST

Sale: **Runyon Ex** Road: **AA to BB**

Construction -	<u>11+85</u>	stations	Improvement -	<u>0+00</u>	stations	Reconstruction -	<u>0+00</u>	stations
	0.22	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		
0+00		1+90	35%		Outslope	\$191	=	\$362.90
1+90		2+60	85%	0.02	Outslope	\$3,589	=	\$2,512.30
2+60		4+30	45%		Outslope	\$269	=	\$457.30
4+30		5+55	60%	0.07	Outslope	\$1,493	=	\$1,866.25
5+55		11+85	35%		Outslope	\$191	=	\$1,203.30
								TOTAL
								\$6,402.05

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	100	LF of 18"	<u>\$1,750.00</u>	0	LF of 24"	\$0.00
			\$1,750.00			\$0.00
			\$0.00			\$0.00
<u>Culvert Stakes & Markers</u>						
	2	markers	<u>\$16.00</u>			
			\$16.00			
						TOTAL CULVERTS
						\$1,766.00

SPECIAL PROJECTS

Construct waste areas -	2.00	hours @	\$130.00	per hour	\$260.00
Construct Landing	1.00	@	\$285.00	each	\$285.00
Roll subgrade w/ vibratory roller	11.85	stations @	\$13.20	per station	\$156.42
Grass seed and fertilize -	1.32	acres @	\$220.00	per acre	\$290.40
Mulching - Culverts	0.28	acres @	\$600.00	per acre	\$168.00
					TOTAL SPECIAL PROJECTS
					\$1,159.82
					GRAND TOTAL
					\$9,327.87

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

CC to DD

Construction -	9+15	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.17	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -
Avg. Dist.

Station	to	Station	Avg. Sideslope	To W.A. (mi.)	Outslope/Ditch	Cost per Station	=		
3+60		4+05	45%		Outslope	\$269		\$121.05	
								TOTAL	\$121.05

SPECIAL PROJECTS

Excavate Material from 0+00 to 1+80	1135	cy		\$1.40	per cy	\$1,589.00	
Haul Material from 0+00 to 1+80 to Waste Area @ 66+00	1135	cy		\$1.38	per cy	\$1,566.30	
Compact Material @ Waste Area	1135	cy		\$0.25	per cy	\$283.75	
Clear & Grub from 0+00 to 1+80	0.2	acres @		\$980.00	per acre	\$196.00	
Push Mat. from 1+80 to 2+60 for Road Fill/WA from 2+60 to 3+60	575	cy		\$0.75	per cy	\$431.25	
Compact Material for Roadway Fill from 2+60 to 3+60	180	cy		\$0.45	per cy	\$81.00	
Compact Material in Waste Area from 2+60 to 3+60	395	cy		\$0.25	per cy	\$98.75	
Clear and Grub from 2+60 to 3+60	0.15	acres @		\$980.00	per acre	\$147.00	
Excavate Material from 4+05 to 9+15	1240	cy		\$1.40	per cy	\$1,736.00	
Compact Material @ Waste Area @ 66+00	1240	cy		\$0.25	per cy	\$310.00	
Haul Material from 4+05 to 9+15 to Waste Area @ 66+00	1240	cy		\$1.47	per cy	\$1,822.80	
Clear and Grub from 4+05 to 9+15	0.35	acres @		\$980.00	per acre	\$343.00	
Construct waste areas from 2+60 to 3+60	2.00	hours @		\$130.00	per hour	\$260.00	
Grade and shape road -	9.15	stations @		\$15.50	per station	\$141.83	
Roll subgrade w/ vibratory	9.15	stations @		\$13.20	per station	\$120.78	
Grass seed and fertilize -	0.90	acres @		\$220.00	per acre	\$198.00	
					TOTAL SPECIAL PROJECTS	\$9,325.46	
					GRAND TOTAL		\$9,446.51

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

EE to FF

Construction -	5+40	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.10	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		0+75	15%		Outslope	\$107	=	\$80.25	
								TOTAL	\$25.25

SPECIAL PROJECTS

Excavate Material for Fills from 2+75 to 3+70	870	cy @	\$0.75	per cy	\$652.50	
Compact Material for Fills from 2+75 to 3+70	870	cy @	\$0.45	per cy	\$391.50	
Excavate Excess Material from 0+75 to 5+45	3600	cy @	\$1.40	per cy	\$5,040.00	
End Haul Excess Material to Waste Area @ W to X, 14+65, lt.	3600	cy @	\$0.98	per cy	\$3,528.00	
Compact Excess Material @ Waste Area	3600	cy @	\$0.25	per cy	\$900.00	
Clearing and Grubbing from 0+75 to 5+45	0.6	acres @	\$980.00	per acre	\$588.00	
Grade and shape road -	5.15	stations @	\$15.50	per station	\$79.83	
Roll subgrade w/ vibratory roller	5.40	stations @	\$13.20	per station	\$71.28	
Grass seed and fertilize -	0.50	acres @	\$220.00	per acre	\$110.00	
					TOTAL SPECIAL PROJECTS	\$11,361.11

GRAND TOTAL

\$11,386.36

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

GG to HH

Construction -	9+15	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.17	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -
Avg. Dist.

Station	to	Station	Avg. Sideslope	To W.A. (mi.)	Outslope/Ditch	Cost per Station			
0+00		6+25	30%		Outslope	\$191	=	\$1,193.75	
								TOTAL	\$1,193.75

SPECIAL PROJECTS

Clear and Grub Borrow Area	2.00	hours @	\$130.00	per hour	\$260.00	
Excavate Material from Borrow Area @ 0+00, right	315	cy	\$0.75	per cy	\$236.25	
Compact Borrowed Material for Fills from 0+00 to 0+95	315	cy	\$0.45	per cy	\$141.75	
Construct Landing @ 6+25	1	@	\$285.00	each	\$285.00	
Grade and shape road -	9.15	stations @	\$15.50	per station	\$141.83	
Roll subgrade w/ vibratory	9.15	stations @	\$13.20	per station	\$120.78	
Grass seed and fertilize - Road & Borrow Area	1.1	acres @	\$220.00	per acre	\$242.00	
				TOTAL SPECIAL PROJECTS	\$1,427.61	
				GRAND TOTAL	\$2,621.36	

SUMMARY OF CONSTRUCTION COST

Sale:

Runyon Ex

Road:

Bridge

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.00	miles		0.00	miles		0.00	miles

ROCK

Surfacing	0+00	100	cy. of	Crushed	@	\$16.31	per c.y.=	\$1,631.00	
Base Rock	0+00	100	cy. of	Crushed	@	\$16.31	per c.y.=	\$1,631.00	
TOTAL ROCK									\$3,262.00

SPECIAL PROJECTS

Licensed Engineer	1	lump sum @	\$4,000.00		\$4,000.00	
40' Modular Steel Bridge and Freight	1	lump sum @	\$34,800.00		\$34,800.00	
Abutments, Backwalls, and Freight	1	lump sum @	\$5,250.00		\$5,250.00	
Installation	1	lump sum @	\$5,500.00		\$6,000.00	
Grade and shape road -	1.00	stations @	\$15.50	per station	\$15.50	
Roll subgrade w/ vibratory	1.00	stations @	\$13.20	per station	\$13.20	
TOTAL SPECIAL PROJECTS						\$50,078.70

GRAND TOTAL

\$53,340.70

ROCK PIT #1 DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Crushed	Location:	Sec.13 , T1S, R8W, W.M.
Sale:	Runyon Ex	Road & Stockpile Rock	4584 c.y.
Swell:	1.40		
Shrinkage	1.16	Total Truck Loads:	4584 c.y.
Drill Pct.:	100%	In Place Total:	3274 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$2,045.00

Drill & Shoot:	\$2.50 /cu.yd.	x	3274 cu.yds.	=	\$8,185.00
Rip Rock:	\$1.90 /cu.yd.	x	0 cu.yds.	=	\$0.00
Push Rock:	\$0.60 /cu.yd.	x	4584 cu.yds.	=	\$2,750.40
Load Crusher:	\$0.60 /cu.yd.	x	4364 cu.yds.	=	\$2,618.40
Crush Rock:	\$2.40 /cu.yd.	x	4364 cu.yds.	=	\$10,473.60
Load Dump Truck:	\$0.70 /cu.yd.	x	4584 cu.yds.	=	\$3,208.80
Oversize Reduction:	\$4.50 /cu.yd.	x	250 cu.yds.	=	\$1,125.00

Subtotal \$30,406.20

Move In/Set-up 2-StageCrusher	1	@	\$2,000		\$2,000.00
Move In and set up Drill and Compressor	1	@	\$304.75	=	\$304.75
Move in Roller and Compactor	1	@	\$304.75	=	\$304.75
Move in Grader	1	@	\$124.10	=	\$124.10
Move in D-8	1	@	\$430.43	=	\$430.43
Move in Loader	1	@	\$322.33	=	\$322.33
Move in Excavator	1	@	\$467.23	=	\$467.23
Move in Trucks	5	@	\$93.64	=	\$468.20
Move in Water Truck	1	@	\$110.07	=	\$110.07
Change Gradation	1	@	\$210.00		\$210.00
				Subtotal	\$4,741.86

TOTAL PRODUCTION COSTS \$35,148.06

Base Cost= \$7.67 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 65 3150 (Crushed)	5.48	2.45	7.67	15.60	1690	\$26,364.00
A to B 565 3150 (Crushed)	5.48	2.45	7.67	15.60	290	\$4,524.00
A to B Energy Dissipator (Riprap)	5.92	0.60	5.70	12.22	10	\$122.20
A to B Armor Inlet (Riprap)	5.92	1.40	5.70	13.02	20	\$260.40
C to D 0 100 (Crushed)	0.93	1.10	7.67	9.70	60	\$582.00
C to D Junction Rock (Crushed 4"-0")	5.56	2.45	7.67	15.68	20	\$313.60
I to J Armor Inlet (Riprap)	5.79	1.40	5.70	12.89	30	\$386.70
I to J Energy Dissipator (Riprap)	5.79	0.60	5.70	12.09	20	\$241.80
M to N Fill Armor (Riprap)	5.99	1.40	5.70	13.09	10	\$130.90
M to N Energy Dissipator (Riprap)	5.99	0.60	5.70	12.29	10	\$122.90
Q to R 0 85 (Crushed)	6.03	1.10	7.67	14.80	80	\$1,184.00
Q to R Armor Bridge (Riprap)	6.03	1.40	5.70	13.13	120	\$1,575.60
Q to R Base: Bridge Footings (Crushed)	6.03	1.40	7.67	15.10	24	\$362.40
2"-0" Stockpile	0.25	1.25	7.67	9.17	2000	\$18,340.00
Bridge Surfacing (Crushed 2"-0")	6.03	2.45	7.67	16.15	100	\$1,615.00
Bridge Base (Crushed 4"-0")	6.03	2.45	7.67	16.15	100	\$1,615.00
				Total C.Y.	4584	Sub Total \$57,740.50

TOTAL ROCKING COSTS \$57,740.50

ROCK PIT #2 DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jaw_run	Location:	Sec.10 , T1N, R7W, W.M.
Sale:	Runyon Ex	Road Rock	3770 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	3770 c.y.
Drill Pct.:	0%	In Place Total:	2693 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$1,009.40

Rip Rock:	\$1.90 /cu.yd.	x	2693 cu.yds.	=	\$5,116.70
Push Rock:	\$0.60 /cu.yd.	x	3770 cu.yds.	=	\$2,262.00
Load Crusher:	\$0.60 /cu.yd.	x	3770 cu.yds.	=	\$2,262.00
Crush Rock:	\$2.50 /cu.yd.	x	3770 cu.yds.	=	\$9,425.00
Load Dump Truck:	\$0.70 /cu.yd.	x	3770 cu.yds.	=	\$2,639.00

Subtotal \$22,714.10

Move In/Set-up Crusher	1	@	\$733	=	\$733.00
Move in Roller and Compactor	1	@	\$304.75	=	\$304.75
Within area move of roller / compactor	1	@	\$120.00	=	\$120.00
Move in Grader	1	@	\$124.10	=	\$124.10
Move in D-8	1	@	\$430.43	=	\$430.43
Within area move of grader	1	@	\$85.00	=	\$85.00
Move in Loader	1	@	\$322.33	=	\$322.33
Move in Excavator	1	@	\$467.23	=	\$467.23
Move in Trucks	4	@	\$93.64	=	\$374.56
Move in Water Truck	1	@	\$110.07	=	\$110.07
				Subtotal	\$3,071.47

Base Cost= \$6.84 Per Cu.Yd.

TOTAL PRODUCTION COSTS \$25,785.57

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost, \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
Q to R 120 5515' (Crushed)	1.46	1.10	6.84	9.40	2840	\$26,696.00
S to T 0 650 (Crushed)	1.23	1.10	6.84	9.17	380	\$3,484.60
S to T Landing Rock (Crushed 4"-0")	1.31	1.10	6.84	9.25	100	\$925.00
S to T Fill Armor (Riprap)	1.25	0.60	5.00	6.85	30	\$205.50
S to T Junction Rock (Crushed)	0.93	0.90	6.84	8.67	20	\$173.40
S to T Energy Dissipator (Riprap)	1.25	0.60	5.00	6.85	30	\$205.50
U to V 0 585 (Crushed)	0.98	1.10	6.84	8.92	350	\$3,122.00
U to V Junction Rock (Crushed)	0.93	0.90	6.84	8.67	20	\$173.40
				Total C.Y.	3770	Sub Total \$34,985.40

TOTAL ROCKING COSTS \$34,985.40

ROCK PIT #2 DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pit_run	Location:	Sec.10 , T1N, R7W, W.M.
Sale:	Runyon Ex	Road Rock	280 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	280 c.y.
Drill Pct.:	0%	In Place Total:	200 c.y.

Rip Rock:	\$1.90 /cu.yd.	x	200 cu.yds.	=	\$380.00
Push Rock:	\$0.60 /cu.yd.	x	280 cu.yds.	=	\$168.00
Load Dump Truck:	\$0.70 /cu.yd.	x	280 cu.yds.	=	\$196.00

Subtotal \$744.00

Base Cost=	\$2.66	Per Cu.Yd.	TOTAL PRODUCTION COSTS	\$744.00
------------	--------	------------	------------------------	----------

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
Q to R 120 450 (Pit Run)	1.47	1.10	2.66	5.23	280	\$1,464.40
				Total C.Y.	280	Sub Total \$1,464.40
						TOTAL ROCKING COSTS \$1,464.40

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Runyon Ex**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
45.0	Pavement	30
0.0	Main Lines	7
1.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area			Within		
				Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Area Cost	Total Cost
2	Excavators (Large)	\$1,003.46	1	\$0.00	0.00	0.00	0	\$0.00	\$1,003.46
2	Tractor (D8)	\$998.86	2	\$0.00	0.00	0.00	0	\$0.00	\$998.86
8	Dump Truck (10 cy +)	\$923.85		\$0.00	0.00	0.00	0	\$0.00	\$923.85
2	Water Truck (1500 Gal)	\$187.29		\$0.00	0.00	0.00	0	\$0.00	\$187.29
				TOTAL MOVE-IN COSTS:					\$3,113.46



"STEWARDSHIP IN FORESTRY"

Runyon Ex

Volume Summary

Area 1-Partial Cut				
35 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	7.2	251	5%	239
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	1.6	57	10%	51
TOTAL	8.8	308		290

Areas 2-Modified Clearcut				
104 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	21.4	2221	5%	2110
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	7.0	725	10%	652
TOTAL	28.3	2945		2762

Areas 3-Modified Clearcut				
6 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	8.4	50	5%	48
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	17.4	104	10%	94
TOTAL	25.8	155		142



"STEWARDSHIP IN FORESTRY"

Runyon Ex

Volume Summary

Areas 4-Modified Clearcut				
7 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	1.8	13	5%	12
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	15.6	109	10%	99
TOTAL	17.4	122		111

Areas 5-Partial Cut				
62 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	13.3	823	5%	782
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	1.1	71	10%	64
TOTAL	14.4	894		846

Areas 6-Modified Clearcut				
15 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	3.4	51	5%	48
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	4.7	71	10%	64
TOTAL	8.1	122		112



"STEWARDSHIP IN FORESTRY"

Runyon Ex

Volume Summary

Areas 7-Partial Cut				
44 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	18.5	812	5%	771
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	2.8	122	10%	110
TOTAL	21.2	935		882

Areas 8-Partial Cut				
98 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	8.6	841	5%	799
Hemlock		0	5%	0
Spruce		0	5%	0
Noble Fir		0	5%	0
Alder	2.7	261	10%	235
TOTAL	11.2	1102		1034

TOTAL SALE VOLUME		371	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)	
Douglas-fir	5062	4809	
Hemlock	0	0	
Spruce	0	0	
Noble Fir	0	0	
Red Alder	1520	1368	
TOTAL	6582	6177	



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT

Runyon Ex

1. **Type of Sale**

Thinning/Regeneration harvest, Recovery.

2. **Legal Description**

Sections 9, 10, 11, 15 and 16, T1N, R7W, W.M., Tillamook County, Oregon

3. **Sale Acreage**

Sale acreage was determined by GPS and orthophotographs along with GIS.

	ACRES	
	<u>Gross</u>	<u>Net</u>
Area 1 (Retention Cut)	36	35
Area 2 (Modified clearcut)	125	104
Area 3 (Modified clearcut)	7	6
Area 4 (Modified clearcut)	9	7
Area 5 (Partial Cut)	65	62
Area 6 (Modified clearcut)	22	15
Area 7 (Retention Cut)	51	44
Area 8 (Retention Cut)	104	98

Gross Acres

Area within the Timber Sale Boundary signs.

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. **Cruising Procedures**

A. Cruise Method

A total of 150 plots were sampled. In Areas 1, 2, 6, 7 and 8 plots were placed on a rectangular grid pattern spaced 166' between plots and 700' between cruise lines. In Area 3 plots were placed on a square grid of 250' x 250'. In Areas 4 and 5 plots were placed on a rectangular grid pattern spaced 166' between plots and 400' between cruise lines.

All diameters were measured outside bark to the nearest inch. All conifers 8 inches DBH and greater containing 20 net board feet and all hardwoods 9 inches DBH and greater containing 30 net board feet were sampled for tree species, DBH, form factor, merchantable height, visible defect and grade.

Tree heights were measured to a 6" merchantable top for conifers, and 7" for hardwoods to the nearest foot.

B. Plot size

All plots were variable radius plots. A BAF of 40 was used for all species. The point of tree observation was 4.5 feet.

C. Grading System

All species were graded using Columbia River Log Scaling and Grading Bureau rules favoring a 40' log.

5. Computation Procedure

The volumes and statistics for the timber cruised were computed using SuperACE 2004, developed by Atterbury Consultants, Inc. The standard error and the coefficient of variation for the cruise as based on net board feet per acre shown in the table below.

Area	C.V. (%)	S.E. (%)
1	60.3	17.4
2	38.2	6.6
3	31.4	14.0
4	34.0	23.5
5	47.2	8.8
6	65.7	26.7
7	51.4	11.5
8	50.4	8.4

6. Hidden Defect and Breakage

A 5% reduction was applied to conifers and a 10% reduction to hardwood volumes for hidden defect and breakage. This was in addition to visual defect deducted during the cruise.

7. Timber Description

The entire sale area was burned by three historic fires, the 1933 Tillamook Fire, the 1939 Saddle Mountain Fire and the 1945 Wilson River Fire.

Approximately 147 acres across the sale were not planted and have natural regeneration. Some alder has minor defect likely from a weather event. A small percentage of alder in the sale was sprayed resulting in short boles and multiple tops.

- **Area 1:** 34 acres were planted three times between 1955 and 1962.
- **Area 2:** 91 acres were planted three times between 1952 and 1962. A small amount of root disease (about 1 acre total) is present in three locations.
- **Area 3:** 3 acres were planted in the 1952-1953 planting season.
- **Area 4:** 6 acres were planted in the 1952-1953 planting season. Approximately 4 acres were commercially thinned with Runyon Thin.
- **Area 5:** 2 acres were planted in the 1953-1954 planting season.

Approximately 4 acres were commercially thinned with Runyon Thin.

- **Area 6:** all acres are result of natural regeneration.
- **Area 7:** 40 acres were planted four times between 1952 and 1975. 11 acres of alder were aerially sprayed in the 1970's resulting in short boles and multiple tops.
- **Area 8:** 69 Acres were planted four times between 1952 and 1975. 3 acres of alder were aerially sprayed in the 1970's. A small amount of root disease (about 1.5 acres total) is present in two locations. Approximately 12 acres were thinned with Runyon Thin.

Sale Area – Species	DBH	Merchantable Bole Height	Merchantable Top
Area 1 - Douglas-fir	13.2	59	5"
Area 1 – Alder	13.5	27	6"
Area 2 - Douglas-fir	16.7	71	5"
Area 2 - Alder	13.4	43	6"
Area 3 - Douglas-fir	16.7	63	5"
Area 3 - Alder	14.0	52	6"
Area 4 - Douglas-fir	31.0	96	5"
Area 4 - Alder	13.5	42	6"
Area 5 - Douglas-fir	14.5	60	5"
Area 5 - Alder	14.8	49	6"
Area 6 - Douglas-fir	31.0	83	5"
Area 6 - Alder	16.6	40	6"
Area 7 - Douglas-fir	13.4	65	5"
Area 7 - Alder	16.8	66	6"
Area 8 - Douglas-fir	14.4	65	5"
Area 8 - Alder	12.7	36	6"

8. Cruiser Names/Dates

Luttrell, Wells, Yau, Rosenburg, Dwyer
November 2008

9. Revenue Distribution

FDF 100%

Deed Numbers: 157, 159, 219, 359 (Tillamook County) 78% By Value

Tax Code: 9-2 100%

Deed Numbers: 591 (Washington County) 22% By Value

LCR Obligations are as follows:

Project #35591A29 = \$1,486.06 (Sec. 9, T1N, R7W)

Project #35591B29 = \$3,715.16 (Sec. 15, T1N, R7W)

10. Attachments

Stand Tables

Volume Summaries

Log Stock Tables

Logging Plan

11. Stand and Log Stock Tables Species Key

DL – Douglas-fir leave

DF – Douglas-fir take

NF – Noble fir reserved

RA – Red alder take

RC – Western red cedar reserved

SS – Sitka spruce reserved

WH – Western hemlock reserved

OC – Conifer snag

TC TLOGSTVB				Log Stock Table - MBF																
				Project: RUNYON																
T01N R007 S09 TRC										T01N R007 S09 TRC										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1											
01N	007	09	A1	RC	35.00	13	33	Date	5/23/2012											
										Time	11:00:04AM									
S Spp	So	Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DL	8	2	40	130		130	48.0					87	30	14						
DL	8	3	28	2		2	.8				2									
DL	8	3	40	101		101	37.1			5	32	63								
DL	8	4	21	1		1	.5			1										
DL	8	4	25	2		2	.8			2										
DL	8	4	26	4		4	1.5			4										
DL	8	4	28	3		3	.9			3										
DL	8	4	31	5		5	1.7			5										
DL	8	4	36	8		8	2.8			8										
DL	8	4	38	9		9	3.5			9										
DL	8	4	40	6		6	2.4			6										
DL	Totals			271		271	44.5		37	6	34	63	87	30	14					
DF	8	3	40	172		172	68.2				84	87								
DF	8	4	20	7		7	2.8		7											
DF	8	4	31	11		11	4.2		11											
DF	8	4	36	11		11	4.3		11											
DF	8	4	38	12		12	4.9		12											
DF	8	4	40	39		39	15.5		39											
DF	Totals			251		251	41.3		80		84	87								
RA	8	4	18	5		5	8.2			5										
RA	8	4	22	6		6	10.2			6										
RA	8	4	25	6		6	9.7			6										
RA	8	4	28	10		10	16.7			4	6									
RA	8	4	30	8		8	14.6				8									
RA	8	4	34	11		11	20.1			11										
RA	8	4	38	7		7	12.5			7										
RA	8	4	40	5		5	7.9			5										
RA	Totals			57		57	9.4			43	14									
BM	8	2	14	10		10	33.3						10							
BM	8	3	26	16		16	53.3					16								
BM	9	UT	29	4		4	13.3			4										
BM	Totals			30		30	4.9			4		16		10						
Total All Species				609		609	100.0		117	53	133	166	87	39	14					

TC	TLOGSTVB										Log Stock Table - MBF																												
										Project: RUNYON																													
T01N R007 S09 TMC										T01N R007 S09 TMC																													
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1																					
01N		007		09		A2		MC		104.00		34		109		Date		8/2/2012																					
										Time 8:13:59AM																													
S				So Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																							
Spp T				rt de		Len		MBF		Def		MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
DF				8		2		20		8		30.0		6		.3								6															
DF				8		2		40		1,131		.1		1,130		50.9								449		383		298											
DF				8		3		32		74				74		3.3						63		11															
DF				8		3		37		18		5.9		17		.8								17															
DF				8		3		39		22		13.3		19		.9								19															
DF				8		3		40		705		.7		700		31.5				98		281		321															
DF				8		4		15		8				8		.3				8																			
DF				8		4		16		2				2		.1				2																			
DF				8		4		17		1				1		.1				1																			
DF				8		4		18		4				4		.2				4																			
DF				8		4		19		15				15		.7				15																			
DF				8		4		20		17				17		.8				17																			
DF				8		4		21		20				20		.9				18		2																	
DF				8		4		22		18				18		.8				9		2		7															
DF				8		4		24		3				3		.1				3																			
DF				8		4		25		16				16		.7				16																			
DF				8		4		26		11		13.0		10		.4				4				6															
DF				8		4		27		3				3		.1				3																			
DF				8		4		28		12				12		.5				10		2																	
DF				8		4		29		7				7		.3				7																			
DF				8		4		30		23				23		1.0				23																			
DF				8		4		31		11				11		.5				11																			
DF				8		4		32		22				22		1.0				22																			
DF				8		4		33		3				3		.1				3																			
DF				8		4		34		4				4		.2				4																			
DF				8		4		35		9				9		.4				9																			
DF				8		4		37		6				6		.3				6																			
DF				8		4		38		8				8		.3				8																			
DF				8		4		39		7				7		.3				7																			
DF				8		4		40		46				46		2.1				8		38																	
DF				Totals				2,235				2,221		74.1				217		142		357		368		455		383		298									
RA				8		2		40		20				20		2.8								20															
RA				8		3		23		16		10.0		15		2.0								15															
RA				8		3		28		20		10.0		18		2.5								18															
RA				8		3		32		22		7.1		20		2.8								20															
RA				8		3		40		151		1.3		149		20.5						15		96		37													
RA				8		4		13		7				7		1.0						7																	
RA				8		4		15		8				8		1.1						8																	
RA				8		4		17		4				4		.6						4																	
RA				8		4		19		5				5		.7						5																	
RA				8		4		22		17				17		2.3						17																	
RA				8		4		23		11				11		1.5						11																	
RA				8		4		24		17				17		2.4						17																	
RA				8		4		25		9				9		1.2						9																	
RA				8		4		27		20				20		2.8						5		16															
RA				8		4		29		8				8		1.1						8																	
RA				8		4		31		12				12		1.7						12																	
RA				8		4		34		14		10.0		12		1.7								12															
RA				8		4		35		60				60		8.2						60																	
RA				8		4		38		22				22		3.1						22																	

TC TLOGSTVB				Log Stock Table - MBF Project: RUNYON																
T01N R007 S09 TMC										T01N R007 S09 TMC										
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2											
01N	007	09	A2	MC	104.00	34	109	Date	8/2/2012											
										Time	8:13:59AM									
Spp	T	S	So	Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches										
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39
RA		8	4	40		293	1.1	290	40.1			111	179							
RA				Totals		736	1.6	725	24.2			295	222	149	58					
BM		8	4	25		13		13	100.0			13								
BM				Totals		13		13	.4			13								
WH		8	3	40		11		11	85.7					11						
WH		8	4	27		2		2	14.3		2									
WH				Totals		13		13	.4		2			11						
DL		8	2	40		23		23	95.9					6			17			
DL		8	4	24		1		1	4.1			1								
DL				Totals		24		24	.8			1		6			17			
Total All Species						3,022		2,996	100.0		219	452	580	529	519	383	298	17		

TC TLOGSTVB				Log Stock Table - MBF Project: RUNYON															
T01N R007 S09 TMC										T01N R007 S09 TMC									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1										
01N	007	09	A3	MC	6.00	6	38	Date	8/2/2012										
								Time	8:18:53AM										
S Spp	So	Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
RA	8	3	37	5		5	4.4					5							
RA	8	3	40	54	.4	54	51.5			1		48	4						
RA	8	4	16	1		1	.9			1									
RA	8	4	17	1		1	.5			1									
RA	8	4	18	1		1	.6			1									
RA	8	4	19	1		1	.9			1									
RA	8	4	23	1		1	1.3			1									
RA	8	4	24	1		1	.7			1									
RA	8	4	29	5		5	4.7			5									
RA	8	4	36	2		2	1.9			2									
RA	8	4	37	8		8	8.1			8									
RA	8	4	40	26	1.1	26	24.5			18	7								
RA	Totals			105		104	61.4			40	7	53	4						
DF	8	2	40	23		23	46.3					9	10	5					
DF	8	3	32	2	22.2	1	2.8			1									
DF	8	3	40	18	1.6	17	34.5			4	5	8							
DF	8	4	16	0		0	.3			0									
DF	8	4	17	1		1	1.5		1										
DF	8	4	20	0		0	.5		0										
DF	8	4	21	1		1	1.9		1										
DF	8	4	22	0		0	.7		0										
DF	8	4	29	3		3	5.4		3										
DF	8	4	38	1		1	3.0		1										
DF	8	4	40	2		2	3.0			2									
DF	Totals			51	1.4	50	29.7		7	6	7	8	9	10	5				
DL	8	2	40	15		15	97.5					3				11			
DL	8	4	13	0		0	.9			0									
DL	8	4	21	0		0	1.6			0									
DL	Totals			15		15	8.8			0		3				11			
Total All Species				171		170	100.0		7	46	14	61	16	10	5	11			

TC TLOGSTVB				Log Stock Table - MBF Project: RUNYON																	
T01N R007 S09 TMC												T01N R007 S09 TMC									
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees				Page	1								
01N	007	09	A4		MC	7.00	3	10				Date	5/23/2012								
												Time	11:32:18AM								
S Spp	So T	Gr rt	Log de Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches													
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+		
RA	8	2	27	10		10	9.1					10									
RA	8	3	33	16		16	14.7					16									
RA	8	3	40	10		10	9.5					10									
RA	8	4	16	3		3	2.6			3											
RA	8	4	19	4		4	3.5			4											
RA	8	4	21	10		10	9.4			10											
RA	8	4	22	4		4	3.4			4											
RA	8	4	38	9		9	7.8			9											
RA	8	4	40	45	2.7	44	40.0				44										
RA	Totals			111	1.1	109	81.7			29	44	26	10								
DL	8	2	40	11		11	90.0						11								
DL	8	4	40	1		1	10.0		1												
DL	Totals			12		12	8.9		1				11								
DF	8	2	40	9		9	74.6								9						
DF	8	3	32	3		3	22.5					3									
DF	8	4	21	0		0	2.8		0												
DF	Totals			13		13	9.4		0			3			9						
Total All Species				135		134	100.0		2	29	44	26	13	11	9						

TC		TLOGSTVB		Log Stock Table - MBF																		
				Project: RUNYON																		
T01N R007 S09 TPC										T01N R007 S09 TPC												
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1													
01N	007	09	A5	PC	62.00	30	92	Date	5/23/2012													
										Time	12:50:48PM											
Spp	T	S	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
											2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		8	2	40			357	1.2	352	42.8				116		133	83	21				
DF		8	3	32			12		12	1.4				5	6							
DF		8	3	40			298		298	36.2			51	109	139							
DF		8	4	15			8		8	1.0		8										
DF		8	4	16			2		2	.3				2								
DF		8	4	20			2		2	.3		2										
DF		8	4	21			6		6	.8		6										
DF		8	4	22			3		3	.4		2	1									
DF		8	4	24			2		2	.2		2										
DF		8	4	27			20		20	2.4		20										
DF		8	4	28			13		13	1.5		13										
DF		8	4	29			3		3	.4		3										
DF		8	4	31			9		9	1.1		9										
DF		8	4	34			5		5	.6		5										
DF		8	4	38			12		12	1.4		12										
DF		8	4	40			78	2.8	76	9.3		73	3									
DF		Totals					830		823	44.6		155	55	117	145	116	133	83	21			
DL		8	2	24			7	5.9	7	.8						7						
DL		8	2	40			652	1.4	643	73.3						128	151	275	88			
DL		8	3	32			16		16	1.8				8	8							
DL		8	3	40			171	.3	171	19.5			42	58	71							
DL		8	4	15			1		1	.1			1									
DL		8	4	16			1		1	.1		1										
DL		8	4	19			14		14	1.6		1						13				
DL		8	4	20			2		2	.3		2										
DL		8	4	21			1		1	.1			1									
DL		8	4	22			2		2	.2			2									
DL		8	4	23			5		5	.6		5										
DL		8	4	25			2		2	.2			2									
DL		8	4	27			1		1	.1			1									
DL		8	4	35			3		3	.3			3									
DL		8	4	36			3		3	.4			3									
DL		8	4	40			5		5	.6		5										
DL		Totals					887	1.1	877	47.5		15	55	66	79	128	158	289	88			
BM		8	4	22			14		14	18.5			14									
BM		8	4	28			9		9	12.4			9									
BM		8	4	35			16		16	20.6			16									
BM		8	4	40			31		31	40.7			16	15								
BM		9	UT	16			6		6	7.8			6									
BM		Totals					76		76	4.1			55	21								
RA		8	3	40			17	5.6	16	22.6					16							
RA		8	4	40			55		55	77.4			40	14								
RA		Totals					72	1.3	71	3.8			40	14	16							
Total All Species							1,864		1,847	100.0		169	205	218	240	244	291	371	110			

TC TLOGSTVB				Log Stock Table - MBF Project: RUNYON																													
T01N R007 S09 TMC										T01N R007 S09 TMC																							
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		1															
01N		007		09		A6		MC		15.00		7		12		Date		5/23/2012															
																Time		12:56:26PM															
S So Gr Log				Gross		% Net		%		Net Volume by Scaling Diameter in Inches																							
Spp T rt de Len				MBF		Def MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
RA 8 3 40				15		15		21.1												15													
RA 8 4 22				1		1		1.6				1																					
RA 8 4 28				9		9		12.6				9																					
RA 8 4 34				4		4		6.3				4																					
RA 8 4 40				41		41		58.4				8 33																					
RA Totals				71		71		42.5				23 33								15													
DF 8 2 40				43		43		85.5												43													
DF 8 3 40				7		7		14.5				7																					
DF Totals				51		51		30.4				7								43													
DL 8 2 40				28		28		72.7												28													
DL 8 3 40				10		10		27.3						10																			
DL Totals				38		38		23.0						10						28													
BM 8 4 20				2		2		23.9				2																					
BM 8 4 26				2		2		27.4				2																					
BM 9 UT 18				3		3		48.7				3																					
BM Totals				7		7		4.0				7																					
Total All Species				167		167		100.0				30 40		10						86													

TC				TLOGSTVB				Log Stock Table - MBF																															
Project:																RUNYON																							
T01N R007 S09 TPC																T01N R007 S09 TPC																							
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		Page		2																					
01N		007		09		A7		PC		44.00		21		76		Date		5/23/2012																					
																Time		1:04:11PM																					
S		So Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																									
Spp		T		rt de		Len		MBF		Def		MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
RA		8		4		40		39		9.9		35		28.3						24		11																	
RA				Totals				131		6.2		123		8.1						21		51		41		11													
Total All Species								1,548		2.0		1,516		100.0				150		170		256		320		204		172		225		20							

TC		TLOGSTVB		Log Stock Table - MBF																																					
				Project:				RUNYON																																	
T01N R007 S09 TRC														T01N R007 S09 TRC																											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				Page		2																					
01N		007		09		A8		RC		98.00		36		97				Date		5/23/2012																					
														Time		1:09:34PM																									
S		So		Gr		Log		Gross		%		Net		%		Net Volume by Scaling Diameter in Inches																									
Spp		T		rt		de		Len		MBF		Def		MBF		Spc		2-3		4-5		6-7		8-9		10-11		12-13		14-15		16-19		20-23		24-29		30-39		40+	
BM				Totals				7		20.0		6		.3						6																					
Total All Species								2,000		1.1		1,979		100.0				200		386		385		377		418		170		43											

T	TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)											Page		1				
			Project: RUNYON											Date	5/23/2012					
														Time	11:00:51AM					
T01N R007 S09 TRC											T01N R007 S09 TRC									
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees				CuFt	BdFt								
01N	007	09	A1	RC	35.00	13	33				S	W								
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre Def% Gross Net		Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
			Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf							
			48	3,720	3,720	130	90 10				100				40	235	1.82	15.9		
			37	2,934	2,934	103	100				2 98				40	137	1.00	21.5		
			15	1,094	1,094	38	96	4					27	12	62	33	35	0.41	30.9	
DL	Totals		45	7,748	7,748	271	14	38	43	5	5 2 94				37	114	0.97	68.2		
			68	4,900	4,900	172	100				100				40	134	0.87	36.7		
			32	2,281	2,281	80	100					9	13 78		35	35	0.28	64.5		
DF	Totals		41	7,181	7,181	251	32	68					3	4	93	37	71	0.51	101.2	
			100	1,628	1,628	57	100				8	51	20	20	28	43	0.68	38.1		
RA	Totals		9	1,628	1,628	57	100				8	51	20	20	28	43	0.68	38.1		
			33	282	282	10	100				100				14	100	1.85	2.8		
			53	451	451	16	100				100				26	90	0.89	5.0		
			14	113	113	4	100				100				29	40	0.63	2.8		
BM	Totals		5	846	846	30	67	33					33	67			24	79	0.96	10.7
Type Totals				17,403	17,403	609	19	58	21	2	4	10	4	82	34	80	0.70	218.2		

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		1			
				Project: RUNYON												Date		8/2/2012			
																Time		8:14:00AM			
T01N R007 S09 TMC												T01N R007 S09 TMC									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees				CuFt		BdFt	
01N		007		09		A2		MC		104.00		34		109				S		W	
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
									Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf		
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF 8 2				51	.3 10,955 10,923			1,136		86	14		0			100	40	287	1.74	38.1	
DF 8 3				36	1.1 7,885 7,798			811		100				9	91		39	109	0.75	71.7	
DF 8 4				13	.5 2,647 2,632			274	79	21			17	41	18	24	27	30	0.32	89.0	
DF Totals				74	.6 21,486 21,353			2,221	10	39	44	7	2	5	6	87	34	107	0.82	198.8	
RA 8 2				2	196 196			20		100						100	40	240	1.90	.8	
RA 8 3				28	3.4 2,007 1,939			202		81	19			16	10	74	36	136	1.16	14.3	
RA 8 4				70	.9 4,877 4,834			503		100			5	16	17	62	32	55	0.55	87.4	
RA Totals				24	1.6 7,080 6,968			725	92	8			3	16	14	66	32	68	0.65	102.5	
BM 8 4				100	129 129			13		100				100			25	30	0.37	4.3	
BM Totals				0	129 129			13	100				100				25	30	0.37	4.3	
WH 8 3				85	108 108			11		100						100	40	180	1.31	.6	
WH 8 4				15	18 18			2	100					100			27	30	0.40	.6	
WH Totals				0	125 125			13	14	86			14		86		34	105	0.95	1.2	
DL 8 2				95	225 225			23		26	74					100	40	470	2.55	.5	
DL 8 4				5	10 10			1	100				100				24	40	0.59	.2	
DL Totals				1	235 235			24	4	24	71		4		96		35	327	2.10	.7	
Type Totals					.8 29,056 28,811			2,996	7	52	35	6	3	8	8	82	33	94	0.76	307.5	

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)												Page		1					
				Project: RUNYON												Date		8/2/2012					
																Time		8:18:53AM					
T01N R007 S09 TMC																T01N R007 S09 TMC							
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt					
01N		007		09		A3		MC		6.00		6		38		S		W					
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre			
									Log Scale Dia.				Log Length				Ln	Bd	CF/ Lf				
RA				8	3	55	.3	9,726	9,692	58	93		7				100	40	152	1.04	63.7		
RA				8	4	45	.6	7,714	7,667	46	100				7	15	78		32	54	0.49	142.5	
RA Totals						61	.5	17,441	17,359	104	96		4		3		7	90		35	84	0.69	206.2
DF				8	2	46		3,896	3,896	23			80		20				100	40	293	1.76	13.3
DF				8	3	37	3.5	3,253	3,138	19	100						8		92	39	110	0.82	28.5
DF				8	4	17		1,375	1,375	8	79	21				15	49	37		27	30	0.36	46.5
DF Totals						30	1.4	8,524	8,408	50	13	41	37	9	2	8	3	87	33	95	0.80	88.3	
DL				8	2	97		2,436	2,436	15			23		77				100	40	491	2.72	5.0
DL				8	4	3		63	63	0	100				36	64			17	25	0.57	2.5	
DL Totals						9		2,499	2,499	15	3	22	75	1	2			97	32	336	2.33	7.4	
Type Totals							.7	28,463	28,266	170	4	71	15	9	3	7	1	90	34	94	0.76	302.0	

T	Species, Sort Grade - Board Foot Volumes (Type)													Page	1					
Project: RUNYON															Date	5/23/2012				
															Time	11:34:26AM				
T01N R007 S09 TMC															T01N R007 S09 TMC					
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt											
01N	007	09	A4	MC	7.00	3	10	S	W											
S So Gr T rt ad Spp		%	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
		Net BdFt	Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf			
		4-5	6-11	12-16	17+		12-20	21-30	31-35	36-99										
RA	8	2	9	1,431	1,431	10	100				100				27	130	1.60	11.0		
RA	8	3	24	3,785	3,785	26	100				61 39				36	137	1.08	27.6		
RA	8	4	67	1.7	10,600	10,423	100				9	19	72		28	52	0.52	200.3		
RA	Totals		82	1.1	15,815	15,639	109		91	9	6	22	15	57	29	65	0.65	238.9		
DL	8	2	90	1,528	1,528	11	100				100				40	360	2.18	4.2		
DL	8	4	10	170	170	1	100				100				40	40	0.68	4.2		
DL	Totals		9	1,698	1,698	12	10		90	100					40	200	1.43	8.5		
DF	8	2	74	1,348	1,348	9	100				100				40	530	3.85	2.5		
DF	8	3	23	407	407	3	100				100				32	160	1.28	2.5		
DF	8	4	3	51	51	0	100				100				21	20	0.46	2.5		
DF	Totals		9	1,806	1,806	13	3	23	75	3		23	75	31	237	2.20	7.6			
Type Totals				.9	19,319	19,142	134		1	74	18	7	5	18	14	63	29	75	0.73	255.0

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1					
				Project: RUNYON										Date		5/23/2012					
														Time		12:52:28PM					
T01N R007 S09 TPC										T01N R007 S09 TPC											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt			
01N		007		09		A5		PC		62.00		30		92		S		W			
S So Gr T rt ad Spp			% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre		
								Log Scale Dia.				Log Length				Ln	Bd	CF/ Lf			
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	Ft				
DF			8	2	42	1.2	5,754	5,685	352		94	6			100	40	295	1.80	19.2		
DF			8	3	38		4,998	4,998	310		100			4	96	40	112	0.74	44.8		
DF			8	4	20	1.3	2,632	2,597	161	96	4		8	29	8	55	31	33	0.31	79.1	
DF Totals					45	.8	13,384	13,280	823	19	38	40	3	2	6	3	90	35	93	0.69	143.2
DL			8	2	74	1.4	10,636	10,485	650		48	52		1	99	40	377	2.22	27.8		
DL			8	3	21	.3	3,017	3,008	186		100				8	92	39	99	0.77	30.5	
DL			8	4	5		655	655	41	36	32		33	46	27	7	20	25	42	0.45	15.6
DL Totals					47	1.1	14,308	14,148	877	2	23	35	40	2	2	2	94	36	191	1.32	74.0
BM			8	4	92		1,128	1,128	70		100			33	22	44	31	47	0.49	24.0	
BM			9	UT	8		95	95	6		100			100			16	40	0.92	2.4	
BM Totals					4		1,224	1,224	76		100			8	31	21	41	29	46	0.51	26.4
RA			8	3	22	5.6	273	258	16		100				100		40	170	1.77	1.5	
RA			8	4	78		881	881	55		100				100		40	74	0.67	11.9	
RA Totals					4	1.3	1,154	1,138	71		100				100		40	85	0.79	13.4	
Type Totals						.9	30,069	29,789	1,847	9	36	35	20	2	5	3	90	35	116	0.87	256.8

T TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page 1												
		Project: RUNYON										Date 5/23/2012												
												Time 12:58:08PM												
T01N R007 S09 TMC										T01N R007 S09 TMC														
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt															
01N	007	09	A6	MC	15.00	7	12	S	W															
S Spp		So T	Gr rt	%	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre				
				Net BdFt	Def%	Gross	Net		Log Scale Dia.				Log Length				Ln Ft	Bd Ft	CF/ Lf					
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99								
RA	8	3		21		997	997		15	100				100				40	400	3.85	2.5			
RA	8	4		79		3,723	3,723		56	100					18	8	74	35	61	0.94	60.9			
RA	Totals				43		4,720	4,720		71		79	21		14	6	79	35	74	1.07	63.4			
DF	8	2		85		2,889	2,889		43	100				100				40	530	3.68	5.5			
DF	8	3		15		491	491		7	100				100				40	90	1.06	5.5			
DF	Totals				30		3,380	3,380		51		15		85	100				40	310	2.37	10.9		
DL	8	2		72		1,860	1,860		28	100				100				40	400	2.69	4.6			
DL	8	3		28		697	697		10	100				100				40	150	0.97	4.6			
DL	Totals				23		2,557	2,557		38		27	73	100				40	275	1.83	9.3			
BM	8	4		51		230	230		3	100				47	53					23	24	0.71	9.4	
BM	9	UT		49		218	218		3	100				100				18	30	0.46	7.3			
BM	Totals				4		448	448		7	100				73	27					21	27	0.62	16.7
Type Totals						11,105	11,105		167		48	26	26		3	7	3	87	34	111	1.27	100.3		

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1					
				Project: RUNYON										Date		5/23/2012					
														Time		1:05:19PM					
T01N R007 S09 TPC												T01N R007 S09 TPC									
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt			
01N		007		09		A7		PC		44.00		21		76		S		W			
				%						Percent Net Board Foot Volume								Average Log			
S So Gr				Net		Bd. Ft. per Acre			Total	Log Scale Dia.				Log Length				Ln Bd CF/			Logs
Spp T rt ad				BdFt		Def% Gross Net			Net MBF	4-5 6-11 12-16 17+		12-20 21-30 31-35 36-99				Ft Ft Lf			Per /Acre		
DF 8 2				20		1.5 3,785 3,729			164	100				9 91				39 259 1.56			14.4
DF 8 3				55		3.7 10,646 10,251			451	100				5 95				39 102 0.67			100.4
DF 8 4				25		1.0 4,520 4,475			197	68 32				12 22 32 35				30 36 0.30			124.6
DF Totals				54		2.6 18,951 18,455			812	17 63 20				3 5 12 79				34 77 0.57			239.3
DL 8 2				76		10,143 10,143			446	58 42				8 92				39 335 1.91			30.3
DL 8 3				20		1.4 2,711 2,673			118	100				24 76				38 101 0.72			26.6
DL 8 4				4		411 411			18	83 17				32 31 16 22				24 26 0.34			15.5
DL Totals				38		.3 13,264 13,227			582	3 21 44 32				1 1 12 86				35 183 1.22			72.4
RA 8 3				50		4.1 1,474 1,414			62	100				20 80				37 125 1.05			11.3
RA 8 4				50		8.2 1,493 1,370			60	82 18				6 26 10 58				27 54 0.66			25.3
RA Totals				8		6.2 2,967 2,784			123	91 9				3 13 15 69				30 76 0.81			36.5
Type Totals						2.0 35,182 34,466			1,516	10 49 28 12				2 4 12 81				34 99 0.73			348.3

T		TSPCSTGR										Species, Sort Grade - Board Foot Volumes (Type)										Page		1						
												Project: RUNYON										Date		5/23/2012						
																						Time		1:11:05PM						
T01N R007 S09 TRC														T01N R007 S09 TRC																
Twp		Rgc		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt												
01N		007		09		A8		RC		98.00		36		97		S		W												
S So Gr T rt ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre										
									Log Scale Dia.				Log Length				Ln	Bd	CF/ Lf											
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	Ft												
DF		8		2		18		.6		1,636		1,626		159		100				100				40	226	1.51	7.2			
DF		8		3		62		.3		5,269		5,250		515		100				15				85	38	103	0.69	50.7		
DF		8		4		20		3.1		1,758		1,702		167		83	17	8				28	10	54	30	31	0.33	54.2		
DF		Totals				42		1.0		8,662		8,578		841		16	65	19	2				6	11	82	34	76	0.60	112.2	
DL		8		2		54		1.2		4,874		4,818		472		96				4	100				40	248	1.64	19.4		
DL		8		3		37				3,330		3,330		326		100				10				90	39	106	0.74	31.5		
DL		8		4		9		2.3		765		747		73		84	16	10				34	15	42	28	30	0.35	25.0		
DL		Totals				44		.8		8,969		8,895		872		7	39	52	2	1				3	5	91	36	117	0.90	76.0
RA		8		3		6				171		171		17		100				100				40	150	1.26	1.1			
RA		8		4		94		1.8		2,539		2,494		244		100				8				16	19	57	32	48	0.58	52.2
RA		Totals				13		1.6		2,710		2,666		261		100				8				15	18	60	32	50	0.60	53.4
BM		8		4		100		20.0		71		57		6		100				100				30				40	0.19	1.4
BM		Totals				0		20.0		71		57		6		100				100				30				40	0.19	1.4
Type Totals						1.1		20,412		20,195		1,979		10	58	31	1	2				6	9	83	34	83	0.70	242.9		

TC		TSTNDSUM															Stand Table Summary														
Project																	RUNYON														
T01N R007 S09 TRC																	T01N R007 S09 TRC														
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1											
01N		007		09		A1		RC			35.00		13		33			Date:		05/23/2011											
																	Time:		10:58:31AM												
Spc	T	S	Sample		FF 16'	Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals																
			DBH	Trees						Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF														
DL		15	2	82	99	7.689	9.44	15.38	21.2	77.5	8.95	326	1,192	313	114	42															
DL		17	2	83	105	5.986	9.44	11.97	29.0	102.5	9.55	347	1,227	334	122	43															
DL		19	2	82	98	4.792	9.44	9.58	34.6	117.5	9.12	332	1,126	319	116	39															
DL		20	3	83	86	6.488	14.15	12.98	35.6	111.7	12.72	463	1,449	445	162	51															
DL		21	1	79	97	1.961	4.72	3.92	40.7	120.0	4.39	160	471	154	56	16															
DL		22	1	78	96	1.787	4.72	3.57	45.5	120.0	4.47	163	429	156	57	15															
DL		23	2	80	94	3.270	9.44	6.54	50.8	152.5	9.14	332	997	320	116	35															
DL		26	1	80	77	1.280	4.72	2.56	54.6	160.0	3.84	140	409	134	49	14															
DL		32	1	76	88	.845	4.72	1.69	92.9	265.0	4.32	157	448	151	55	16															
DL		Totals	15	82	95	34.099	70.77	68.20	35.5	113.6	66.50	2,418	7,748	2,327	846	271															
DF		9	1	88	76	27.859	12.31	27.86	9.7	40.0	7.71	270	1,114	270	95	39															
DF		15	2	83	91	20.058	24.62	40.12	19.6	72.5	22.39	786	2,908	784	275	102															
DF		16	1	85	104	8.815	12.31	17.63	24.2	95.0	12.16	427	1,675	426	149	59															
DF		17	1	81	100	7.808	12.31	15.62	27.4	95.0	12.17	427	1,484	426	150	52															
DF		Totals	5	85	87	64.540	61.54	101.22	18.9	70.9	54.43	1,910	7,181	1,905	668	251															
RA		10	1	78	25	6.667	3.64	6.67	6.7	20.0	1.22	45	133	43	16	5															
RA		11	1	77	33	5.510	3.64	5.51	9.4	30.0	1.43	52	165	50	18	6															
RA		13	2	73	53	7.890	7.27	7.89	19.1	45.0	4.15	151	355	145	53	12															
RA		14	4	76	52	13.606	14.55	13.61	22.2	52.5	8.31	302	714	291	106	25															
RA		16	1	75	47	2.604	3.64	2.60	30.1	50.0	2.16	78	130	76	27	5															
RA		17	1	76	19	2.307	3.64																								
RA		19	1	77	52	1.847	3.64	1.85	49.0	70.0	2.49	90	129	87	32	5															
RA		Totals	11	76	43	40.432	40.00	38.12	18.8	42.7	19.76	718	1,628	691	251	57															
BM		15	1	83	54	5.015	6.15	5.01	23.0	90.0	3.06	116	451	107	40	16															
BM		20	1	73	57	2.821	6.15	5.64	22.2	70.0	3.31	125	395	116	44	14															
BM		Totals	2	79	55	7.835	12.31	10.66	22.6	79.4	6.37	241	846	223	84	30															
Totals			33	81	75	146.906	184.62	218.20	24.2	79.8	147.06	5287	17,403	5,147	1,850	609															

TC		Stand Table Summary														
Project RUNYON																
T01N R007 S09 TMC													T01N R007 S09 TMC			
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page: 1		
01N	007	09	A2		MC			104.00		34	109			Date: 08/02/2011		
													Time: 8:14:01AM			
Spc	S T	Av			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		Sample DBH	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF	
DF		9	3	85	42	15.262	6.74	15.26	6.0	26.7	2.60	91	407	271	95	42
DF		10	1	80	29	4.121	2.25	4.12	6.1	20.0	.71	25	82	74	26	9
DF		11	1	91	70	3.406	2.25	3.41	14.8	60.0	1.44	51	204	150	53	21
DF		12	2	87	64	5.723	4.50	8.59	11.4	40.0	2.80	98	343	291	102	36
DF		13	5	84	84	12.192	11.24	21.95	14.4	53.3	9.03	317	1,170	939	330	122
DF		14	2	81	107	4.205	4.50	8.41	19.0	67.5	4.57	159	568	475	166	59
DF		15	4	83	93	7.326	8.99	12.82	22.2	78.6	8.10	284	1,007	843	296	105
DF		16	3	84	113	4.829	6.74	11.27	21.9	85.7	7.02	246	966	730	256	100
DF		17	4	83	118	5.704	8.99	14.26	24.4	91.0	9.93	349	1,298	1,033	362	135
DF		18	4	86	114	5.087	8.99	11.45	30.5	121.1	9.95	349	1,386	1,035	363	144
DF		19	5	87	121	5.708	11.24	14.84	31.1	122.3	13.13	461	1,815	1,366	479	189
DF		20	8	85	108	8.242	17.98	20.60	32.6	119.5	19.12	671	2,462	1,988	698	256
DF		21	2	86	126	1.869	4.50	4.67	41.0	168.0	5.46	192	785	568	199	82
DF		22	6	83	121	5.109	13.49	14.47	38.5	151.2	15.90	558	2,188	1,654	580	228
DF		23	4	83	121	3.116	8.99	9.35	40.8	169.2	10.87	381	1,581	1,131	397	164
DF		24	4	84	127	2.862	8.99	7.15	50.5	213.0	10.29	361	1,524	1,070	376	158
DF		25	5	83	115	3.297	11.24	9.23	49.0	194.3	12.90	453	1,793	1,341	471	187
DF		26	3	83	141	1.829	6.74	5.49	58.0	248.9	9.06	318	1,365	943	331	142
DF		29	1	84	122	.490	2.25	1.47	65.7	276.7	2.75	97	407	286	100	42
DF		Totals	67	84	91	100.376	150.59	198.80	27.5	107.4	155.66	5,461	21,353	16,189	5,680	2,221
RA		9	1	84	46	5.326	2.35	5.33	7.0	30.0	1.03	37	160	107	39	17
RA		10	1	85	72	4.314	2.35	4.31	13.0	50.0	1.54	56	216	160	58	22
RA		11	4	80	63	14.261	9.41	14.26	14.4	47.5	5.64	205	677	587	213	70
RA		12	9	83	63	26.865	21.18	23.87	18.6	59.9	12.19	443	1,429	1,267	461	149
RA		13	2	84	88	5.105	4.71	7.66	18.1	66.7	3.82	139	511	397	144	53
RA		14	2	85	71	4.402	4.71	4.40	27.5	80.0	3.33	121	352	347	126	37
RA		15	7	83	77	13.421	16.47	21.09	23.1	75.5	13.39	487	1,591	1,392	506	166
RA		16	1	81	93	1.685	2.35	3.37	24.1	90.0	2.23	81	303	232	84	32
RA		17	3	83	74	4.570	7.06	9.14	22.1	74.7	5.54	202	683	576	210	71
RA		18	1	84	51	1.331	2.35	1.33	37.6	90.0	1.38	50	120	143	52	12
RA		19	1	80	62	1.195	2.35	1.20	52.5	120.0	1.72	63	143	179	65	15
RA		20	2	82	72	2.157	4.71	3.24	43.5	123.3	3.87	141	399	403	147	42
RA		23	2	84	69	1.631	4.71	3.26	41.6	117.5	3.74	136	383	388	141	40
RA		Totals	36	83	68	86.265	84.71	102.46	21.1	68.0	59.41	2,161	6,968	6,179	2,247	725
DL		30	1	85	126	.240	1.18	.72	72.7	326.7	1.44	52	235	150	54	24
DL		Totals	1	85	126	.240	1.18	.72	72.7	326.7	1.44	52	235	150	54	24
BM		10	1	85	41	4.314	2.35	4.31	9.3	30.0	1.06	40	129	110	42	13
BM		Totals	1	85	41	4.314	2.35	4.31	9.3	30.0	1.06	40	129	110	42	13
WH		19	1	81	84	.598	1.18	1.20	31.7	105.0	1.21	38	125	126	39	13
WH		Totals	1	81	84	.598	1.18	1.20	31.7	105.0	1.21	38	125	126	39	13
OC		10	1	86	69	2.157	1.18									
OC		14	1	86	81	2.201	2.35									
OC		Totals	2	86	75	4.358	3.53									
Totals		108		84	80	196.150	243.53	307.49	25.2	93.7	218.78	7752	28,811	22,753	8,062	2,996

Stand Table Summary																
TC		TSTNDSUM														
Project RUNYON																
T01N R007 S09 TMC													T01N R007 S09 TMC			
Twp	Rge	Sec	Tract	Type				Acres		Plots	Sample Trees			Page: 1		
01N	007	09	A3	MC				6.00		6	38			Date: 08/02/2017		
													Time: 8:18:54AM			
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
RA		9	2	86	68	30.181	13.33	30.18	10.5	50.0	8.74	318	1,509	52	19	9
RA		12	3	82	78	25.465	20.00	25.46	20.1	66.7	14.07	512	1,698	84	31	10
RA		13	3	83	80	21.698	20.00	21.70	24.3	76.7	14.51	528	1,664	87	32	10
RA		14	2	83	65	12.473	13.33	12.47	26.7	70.0	9.17	333	873	55	20	5
RA		15	3	87	95	16.297	20.00	32.59	22.4	93.3	20.09	731	3,042	121	44	18
RA		16	2	85	84	9.549	13.33	9.55	37.8	130.0	9.93	361	1,241	60	22	7
RA		17	5	84	78	21.147	33.33	38.07	26.7	93.3	27.94	1,016	3,553	168	61	21
RA		18	3	83	78	11.318	20.00	22.64	28.6	96.7	17.81	648	2,188	107	39	13
RA		19	2	83	102	6.772	13.33	13.54	33.7	117.5	12.57	457	1,591	75	27	10
RA		Totals	25	84	79	154.899	166.67	206.20	23.8	84.2	134.82	4,903	17,359	809	294	104
DF		9	1	77	60	15.090	6.67	15.09	8.4	30.0	3.61	127	453	22	8	3
DF		14	2	80	67	12.473	13.33	18.71	17.7	43.3	9.43	331	811	57	20	5
DF		16	1	84	81	4.775	6.67	9.55	21.4	65.0	5.83	205	621	35	12	4
DF		17	1	82	120	4.229	6.67	8.46	30.9	120.0	7.46	262	1,015	45	16	6
DF		19	2	84	118	6.772	13.33	16.93	31.6	120.0	15.23	534	2,032	91	32	12
DF		21	1	84	127	2.772	6.67	8.32	35.4	143.3	8.38	294	1,192	50	18	7
DF		23	1	86	121	2.311	6.67	6.93	41.5	176.7	8.20	288	1,225	49	17	7
DF		29	1	81	116	1.453	6.67	4.36	60.8	243.3	7.56	265	1,061	45	16	6
DF		Totals	10	81	85	49.874	66.67	88.34	26.1	95.2	65.68	2,305	8,408	394	138	50
DL		30	1	87	122	1.358	6.67	4.07	73.0	343.3	8.17	297	1,399	49	18	8
DL		33	1	84	112	1.122	6.67	3.37	79.2	326.7	7.33	267	1,100	44	16	7
DL		Totals	2	86	117	2.481	13.33	7.44	75.8	335.8	15.51	564	2,499	93	34	15
OC		20	1	89	134	3.056	6.67									
OC		Totals	1	89	134	3.056	6.67									
Totals			38	83	81	210.310	253.33	301.99	25.7	93.6	216.02	7771	28,266	1,296	466	170

TC TSTNDSUM				Stand Table Summary													
Project RUNYON																	
T01N R007 S09 TMC													T01N R007 S09 TMC				
Twp	Rge	Sec	Tract	Type				Acres		Plots	Sample Trees			Page: 1			
01N	007	09	A4	MC				7.00		3	10			Date: 05/23/2017			
Time: 11:30:26AM																	
Spc	S T	Sample			Av			Average Log			Net		Net	Totals			
		DBH	Trees	FF 16'	Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
RA		9	1	79	44	49.043	21.67	49.04	6.7	30.0	9.04	329	1,471	63	23	10	
RA		12	1	84	107	27.587	21.67	55.17	13.9	55.0	21.14	769	3,035	148	54	21	
RA		14	2	82	71	40.536	43.33	60.80	18.9	56.7	31.64	1,151	3,446	221	81	24	
RA		15	2	82	79	35.311	43.33	52.97	23.2	90.0	33.82	1,230	4,767	237	86	33	
RA		19	1	74	54	11.004	21.67	11.00	43.1	130.0	13.03	474	1,431	91	33	10	
RA		20	1	84	63	9.931	21.67	9.93	54.5	150.0	14.90	542	1,490	104	38	10	
RA		Totals	8	81	69	173.413	173.33	238.92	18.8	65.5	123.57	4,493	15,639	865	315	109	
DF		31	1	75	109	2.544	13.33	7.63	68.2	236.7	14.84	521	1,806	104	36	13	
DF		Totals	1	75	109	2.544	13.33	7.63	68.2	236.7	14.84	521	1,806	104	36	13	
DL		24	1	83	95	4.244	13.33	8.49	57.3	200.0	13.38	487	1,698	94	34	12	
DL		Totals	1	83	95	4.244	13.33	8.49	57.3	200.0	13.38	487	1,698	94	34	12	
Totals		10			81	70	180.201	200.00	255.04	21.6	75.1	151.79	5501	19,142	1,062	385	134

TC		Stand Table Summary														
TSTNDSUM		Project RUNYON														
T01N R007 S09 TPC												T01N R007 S09 TPC				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page: 1								
01N	007	09	A5	PC	62.00	30	92	Date: 05/23/2017								
								Time: 12:35:33PM								
S SpC	T	Av						Average Log		Net		Net	Totals			
		Sample DBH	FF Trees	Ht 16' Tot	Trees/ Acre	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF	
DL		14	2	80	80	5.880	6.29	8.82	20.2	60.0	4.91	178	529	304	111	33
DL		15	1	84	119	2.561	3.14	5.12	25.1	105.0	3.54	129	538	220	80	33
DL		17	1	82	105	1.994	3.14	3.99	28.0	95.0	3.07	112	379	191	69	23
DL		18	1	85	119	1.778	3.14	5.34	24.7	96.7	3.62	132	516	225	82	32
DL		20	1	77	112	1.441	3.14	2.88	41.7	130.0	3.31	120	375	205	75	23
DL		21	1	85	110	1.307	3.14	2.61	45.2	155.0	3.25	118	405	201	73	25
DL		22	2	82	108	2.381	6.29	4.76	49.0	155.0	6.42	233	738	398	145	46
DL		23	4	83	113	4.357	12.57	9.80	51.0	195.6	13.74	500	1,917	852	310	119
DL		24	1	81	116	1.000	3.14	3.00	41.8	166.7	3.45	125	500	214	78	31
DL		25	2	80	110	1.844	6.29	4.61	53.2	192.0	6.76	245	885	419	152	55
DL		26	2	86	172	1.705	6.29	5.11	69.8	396.7	9.82	357	2,029	609	221	126
DL		27	2	84	123	1.581	6.29	3.95	66.6	276.0	7.23	263	1,091	448	163	68
DL		28	3	85	128	2.205	9.43	6.61	62.6	271.1	11.38	414	1,793	706	257	111
DL		29	2	83	109	1.370	6.29	3.43	71.6	294.0	6.75	245	1,007	418	152	62
DL		31	1	80	101	.600	3.14	1.20	94.7	310.0	3.12	114	372	194	70	23
DL		32	1	83	110	.563	3.14	1.13	110.6	470.0	3.42	124	529	212	77	33
DL		33	1	82	122	.529	3.14	1.59	84.4	343.3	3.68	134	545	228	83	34
DL		Totals	28	82	111	33.096	88.00	73.96	47.9	191.3	97.47	3,544	14,148	6,043	2,197	877
DF		8	1	85	104	7.353	2.57	7.35	9.7	40.0	2.03	71	294	126	44	18
DF		9	1	86	48	5.810	2.57	5.81	6.6	30.0	1.09	38	174	67	24	11
DF		10	5	86	62	23.529	12.83	23.53	11.2	38.0	7.49	263	894	464	163	55
DF		11	3	84	68	11.668	7.70	15.56	11.5	40.0	5.06	179	622	314	111	39
DF		14	2	85	76	4.802	5.13	9.60	14.5	55.0	3.98	140	528	247	87	33
DF		15	5	85	106	10.458	12.83	20.92	22.5	86.0	13.41	471	1,799	831	292	112
DF		16	3	85	101	5.515	7.70	11.03	24.9	96.7	7.83	275	1,066	485	170	66
DF		18	1	84	90	1.452	2.57	2.90	30.4	105.0	2.52	88	305	156	55	19
DF		19	1	84	111	1.304	2.57	2.61	38.1	135.0	2.83	99	352	175	62	22
DF		20	5	86	104	5.882	12.83	14.12	33.6	122.5	13.52	475	1,729	838	294	107
DF		21	3	83	117	3.201	7.70	6.40	46.7	171.7	8.53	299	1,099	529	185	68
DF		22	2	83	109	1.945	5.13	4.86	41.0	150.0	5.68	199	729	352	124	45
DF		23	3	88	125	2.669	7.70	8.01	41.6	182.2	9.49	333	1,459	589	207	90
DF		24	4	84	118	3.268	10.27	8.99	47.2	194.5	12.10	425	1,748	750	263	108
DF		31	1	84	123	.490	2.57	1.47	74.5	326.7	3.12	109	480	193	68	30
DF		Totals	40	85	85	89.345	102.67	143.15	24.2	92.8	98.68	3,464	13,280	6,118	2,148	823
BM		9	1	79	46	7.545	3.33	7.55	7.0	30.0	1.40	53	226	87	33	14
BM		11	2	81	58	10.102	6.67	10.10	13.5	40.0	3.61	136	404	224	84	25
BM		13	1	81	77	3.616	3.33	3.62	23.8	70.0	2.28	86	253	141	53	16
BM		15	1	87	65	2.716	3.33	2.72	31.5	90.0	2.27	86	244	141	53	15
BM		16	1	70	20	2.387	3.33	2.39	14.7	40.0	.93	35	95	58	22	6
BM		Totals	6	80	54	26.367	20.00	26.37	15.0	46.4	10.49	396	1,224	651	245	76
RA		11	1	81	92	6.061	4.00	6.06	18.5	70.0	3.09	112	424	192	70	26
RA		15	1	83	57	3.259	4.00	3.26	29.9	70.0	2.68	97	228	166	60	14
RA		17	1	76	65	2.538	4.00	2.54	42.3	90.0	2.95	107	228	183	67	14
RA		22	1	78	65	1.515	4.00	1.52	70.9	170.0	2.95	107	258	183	67	16
RA		Totals	4	80	75	13.373	16.00	13.37	31.8	85.1	11.68	425	1,138	724	263	71
OC		18	1	98	36	.755	1.33									
OC		32	1	98	22	.259	1.44									
OC		36	2	98	20	.409	2.89									
OC		38	1	98	20	.183	1.44									

Stand Table Summary																
Project RUNYON																
T01N R007 S09 TPC										T01N R007 S09 TPC						
Twp	Rge	Sec	Tract	Type			Acres	Plots	Sample Trees	Page:	2					
01N	007	09	A5	PC			62.00	30	92	Date:	05/23/2011					
										Time:	12:35:33PM					
Spc	S T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net	Net	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.		Net Bd.Ft.	Tons	Cunits	MBF		
OC		40	1	98	20	.166	1.44									
OC		45	1	99	25	.121	1.33									
OC		48	1	98	18	.115	1.44									
OC		54	2	98	33	.182	2.89									
OC		72	3	55	50	.153	4.33									
OC		84	1	36	20	.038	1.44									
OC		Totals		14	94	28	2.379	20.00								
Totals			92	84	84	164.559	246.67	256.85	30.5	116.0	218.31	7829	29,789	13,535	4,854	1,847

Stand Table Summary																
TC		TSTNDSUM														
Project RUNYON																
T01N R007 S09 TMC													T01N R007 S09 TMC			
Twp	Rge	Sec	Tract		Type			Acres		Plots	Sample Trees			Page:	1	
01N	007	09	A6		MC			15.00		7	12			Date:	05/23/2017	
													Time:	12:54:05PM		
S Spec	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
RA		11	1	83	44	19.791	13.06	19.79	12.0	30.0	6.52	237	594	98	36	9
RA		15	1	74	75	10.643	13.06	10.64	34.9	90.0	10.22	372	958	153	56	14
RA		16	2	78	60	18.709	26.12	18.71	37.0	75.0	19.03	692	1,403	285	104	21
RA		20	1	73	42	5.987	13.06	5.99	44.2	50.0	7.28	265	299	109	40	4
RA		27	1	67	55	3.285	13.06	3.28	113.7	120.0	10.27	373	394	154	56	6
RA		31	1	76	73	2.492	13.06	4.98	85.8	215.0	11.76	427	1,072	176	64	16
RA		Totals	7	78	56	60.907	91.43	63.40	37.3	74.4	65.07	2,366	4,720	976	355	71
DF		31	1	80	101	5.451	28.57	10.90	94.7	310.0	29.42	1,032	3,380	441	155	51
DF		Totals	1	80	101	5.451	28.57	10.90	94.7	310.0	29.42	1,032	3,380	441	155	51
DL		26	1	77	123	4.650	17.14	9.30	73.1	275.0	18.70	680	2,557	281	102	38
DL		Totals	1	77	123	4.650	17.14	9.30	73.1	275.0	18.70	680	2,557	281	102	38
BM		12	1	86	22	7.276	5.71	7.28	8.3	30.0	1.61	61	218	24	9	3
BM		14	1	84	23	5.345	5.71	5.35	12.7	20.0	1.79	68	107	27	10	2
BM		16	1	83	32	4.093	5.71	4.09	20.7	30.0	2.25	85	123	34	13	2
BM		Totals	3	85	25	16.714	17.14	16.71	12.7	26.8	5.65	213	448	85	32	7
Totals		12		79	56	87.721	154.29	100.31	42.8	110.7	118.84	4292	11,105	1,783	644	167

TC		TSTNDSUM															Stand Table Summary														
Project																	RUNYON														
T01N R007 S09 TPC																	T01N R007 S09 TPC														
Twp		Rge		Sec		Tract		Type			Acres		Plots		Sample Trees			Page:		1											
01N		007		09		A7		PC			44.00		21		76			Date:		05/23/2011											
																		Time:		1:01:25PM											
Spc	S T	Sample		Av		Trees/			Average Log			Net		Net		Totals															
		DBH	Trees	FF 16'	Ht Tot	BA/ Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF																
DF		8	1	82	66	8.488	2.96	8.49	7.8	30.0	1.88	66	255	83	29	11															
DF		9	2	86	40	13.414	5.93	13.41	5.8	25.0	2.23	78	335	98	34	15															
DF		10	5	88	77	27.162	14.81	38.03	9.0	37.1	9.71	342	1,412	427	151	62															
DF		11	4	86	84	17.959	11.85	22.45	13.3	50.0	8.54	300	1,122	376	132	49															
DF		12	2	92	109	7.545	5.93	15.09	14.1	65.0	6.06	213	981	267	94	43															
DF		13	1	84	121	3.214	2.96	6.43	17.6	65.0	3.22	113	418	142	50	18															
DF		14	4	85	109	11.087	11.85	22.17	19.6	70.0	12.42	435	1,552	547	192	68															
DF		15	5	86	120	12.072	14.81	26.56	21.1	90.0	15.99	560	2,390	704	246	105															
DF		16	5	86	105	10.610	14.81	21.22	24.6	96.0	14.88	522	2,037	655	230	90															
DF		17	5	86	123	9.399	14.81	28.20	22.0	87.3	17.69	621	2,462	778	273	108															
DF		18	3	83	117	5.030	8.89	11.74	30.1	112.9	10.07	353	1,325	443	155	58															
DF		19	1	85	119	1.505	2.96	3.01	38.1	135.0	3.27	115	406	144	50	18															
DF		20	2	85	116	2.716	5.93	6.79	35.9	140.0	6.94	244	951	305	107	42															
DF		21	2	84	114	2.464	5.93	6.16	38.0	134.0	6.68	234	825	294	103	36															
DF		22	2	87	145	2.245	5.93	6.73	43.9	203.3	8.42	296	1,369	371	130	60															
DF		24	1	82	147	.943	2.96	2.83	50.8	216.7	4.10	144	613	180	63	27															
DF	Totals		45	86	93	135.853	133.33	239.31	19.4	77.1	132.11	4,636	18,455	5,813	2,040	812															
DL		16	1	85	114	2.524	3.52	5.05	26.9	100.0	3.72	136	505	164	60	22															
DL		17	1	84	105	2.236	3.52	4.47	30.3	110.0	3.73	136	492	164	60	22															
DL		19	1	82	128	1.790	3.52	5.37	27.5	103.3	4.05	147	555	178	65	24															
DL		20	2	83	131	3.230	7.05	9.69	32.2	130.0	8.57	312	1,260	377	137	55															
DL		21	3	84	117	4.395	10.57	11.72	36.8	138.7	11.85	431	1,626	521	190	72															
DL		23	2	83	123	2.443	7.05	7.33	40.8	171.7	8.23	299	1,258	362	131	55															
DL		24	1	88	120	1.122	3.52	3.36	43.2	196.7	4.00	145	662	176	64	29															
DL		25	1	84	142	1.034	3.52	3.10	54.7	236.7	4.67	170	734	205	75	32															
DL		26	4	86	146	3.823	14.10	12.42	55.5	265.4	18.96	689	3,297	834	303	145															
DL		27	2	81	148	1.773	7.05	5.32	63.1	266.7	9.22	335	1,418	406	148	62															
DL		28	1	81	160	.824	3.52	3.30	54.3	257.5	4.92	179	849	217	79	37															
DL		32	1	82	115	.635	3.52	1.27	107.3	450.0	3.75	136	571	165	60	25															
DL	Totals		20	84	128	25.827	70.48	72.40	43.0	182.7	85.67	3,115	13,227	3,769	1,371	582															
RA		13	1	83	139	3.616	3.33	10.85	12.7	46.7	3.79	137	506	167	60	22															
RA		16	3	82	83	7.162	10.00	14.32	22.5	75.0	8.86	322	1,074	390	142	47															
RA		18	1	81	72	1.886	3.33	3.77	25.7	85.0	2.67	97	321	117	43	14															
RA		19	2	77	83	3.386	6.67	5.08	41.0	116.7	5.73	208	593	252	92	26															
RA		22	1	77	90	1.263	3.33	2.53	49.2	115.0	3.42	124	290	151	55	13															
RA	Totals		8	81	94	17.313	26.67	36.55	24.3	76.2	24.47	889	2,784	1,077	391	123															
OC		38	1	79	42	.242	1.90																								
OC		42	1	77	38	.198	1.90																								
OC		53	1	89	30	.746	11.43																								
OC	Totals		3	85	34	1.186	15.24																								
Totals			76	85	98	180.179	245.71	348.26	24.8	99.0	242.24	8639	34,466	10,659	3,801	1,516															

TC		TSTNDSUM														
Stand Table Summary																
Project RUNYON																
T01N R007 S09 TRC													T01N R007 S09 TRC			
Twp	Rge	Sec	Tract	Type				Acres		Plots	Sample Trees			Page: 1		
01N	007	09	A8	RC				98.00		36	97			Date: 05/23/2017		
													Time: 1:07:42PM			
Spc	S T	Sample		Av		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
		DBH	Trees	FF 16'	Ht Tot				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DL		11	1	86	64	3.311	2.19	3.31	13.6	40.0	1.24	45	132	122	44	13
DL		16	6	85	94	9.390	13.11	18.78	22.9	87.5	11.84	431	1,643	1,161	422	161
DL		17	2	89	131	2.773	4.37	8.32	23.8	103.3	5.45	198	860	534	194	84
DL		18	2	82	111	2.473	4.37	4.95	32.8	120.0	4.47	162	594	438	159	58
DL		19	2	83	125	2.220	4.37	6.66	27.8	106.7	5.09	185	710	499	182	70
DL		20	5	82	117	5.008	10.93	12.02	35.7	128.3	11.82	430	1,542	1,158	421	151
DL		21	3	85	111	2.725	6.56	7.27	36.4	143.8	7.28	265	1,045	713	259	102
DL		22	5	82	106	4.139	10.93	9.11	44.2	147.3	11.07	402	1,341	1,085	394	131
DL		23	2	78	103	1.515	4.37	3.03	52.0	162.5	4.33	158	492	425	154	48
DL		26	1	82	97	.593	2.19	1.19	66.8	215.0	2.18	79	255	213	78	25
DL		30	1	72	115	.445	2.19	1.34	63.7	210.0	2.34	85	280	229	83	27
DL		Totals	30	84	104	34.592	65.56	75.96	32.1	117.1	67.11	2,440	8,895	6,576	2,391	872
DF		10	2	87	49	8.280	4.52	8.28	9.3	35.0	2.18	77	290	214	75	28
DF		11	2	82	78	6.843	4.52	10.26	11.1	40.0	3.23	113	411	317	111	40
DF		12	3	87	82	8.625	6.77	14.38	12.8	52.0	5.26	185	748	516	181	73
DF		13	3	87	95	7.349	6.77	14.70	15.1	60.0	6.31	221	882	618	217	86
DF		14	1	85	87	2.112	2.26	4.22	15.0	55.0	1.84	64	232	180	62	23
DF		15	6	85	99	11.040	13.55	23.92	18.9	72.3	12.91	453	1,730	1,265	444	170
DF		16	4	85	115	6.469	9.03	14.55	24.2	97.8	10.04	352	1,423	984	345	139
DF		17	1	84	107	1.433	2.26	2.87	30.3	110.0	2.48	87	315	243	85	31
DF		19	4	83	104	4.587	9.03	9.17	35.1	120.0	9.17	322	1,101	899	315	108
DF		20	3	83	107	3.105	6.77	6.21	39.9	138.3	7.07	248	859	693	243	84
DF		21	1	81	98	.939	2.26	1.88	43.6	140.0	2.33	82	263	229	80	26
DF		22	1	80	113	.855	2.26	1.71	51.3	190.0	2.50	88	325	245	86	32
DF		Totals	31	85	89	61.638	70.00	112.16	20.4	76.5	65.32	2,291	8,578	6,401	2,245	841
RA		10	4	76	49	14.816	8.08	14.82	9.4	27.5	3.78	139	407	370	136	40
RA		11	2	85	60	6.122	4.04	6.12	16.1	55.0	2.70	98	337	265	96	33
RA		12	5	78	60	12.861	10.10	12.86	17.7	50.0	6.27	228	643	614	223	63
RA		13	1	76	54	2.192	2.02	2.19	22.1	50.0	1.33	49	110	131	48	11
RA		14	2	81	74	3.780	4.04	5.67	20.7	60.0	3.23	117	340	316	115	33
RA		15	3	84	61	4.939	6.06	4.94	30.0	73.3	4.07	148	362	399	145	35
RA		17	2	73	49	2.563	4.04	2.56	38.1	60.0	2.69	98	154	263	96	15
RA		18	2	77	59	2.286	4.04	3.43	29.7	73.3	2.80	102	252	274	100	25
RA		22	1	76	54	.765	2.02	.77	64.7	80.0	1.36	50	61	133	49	6
RA		Totals	22	79	57	50.324	44.44	53.36	19.3	50.0	28.23	1,028	2,666	2,766	1,007	261
BM		12	1	76	60	1.415	1.11	1.41	5.6	40.0	.67	8	57	66	8	6
BM		Totals	1	76	60	1.415	1.11	1.41	5.6	40.0	0.67	8	57	66	8	6
OC		9	1	99	126	2.515	1.11									
OC		10	1	99	111	2.037	1.11									
OC		30	4	69	23	1.811	8.89									
OC		32	1	58	18	.398	2.22									
OC		38	3	83	19	.846	6.67									
OC		Totals	10	88	80	7.607	20.00									
Totals			94	83	81	155.576	201.11	242.89	23.7	83.1	161.32	5766	20,195	15,809	5,651	1,979

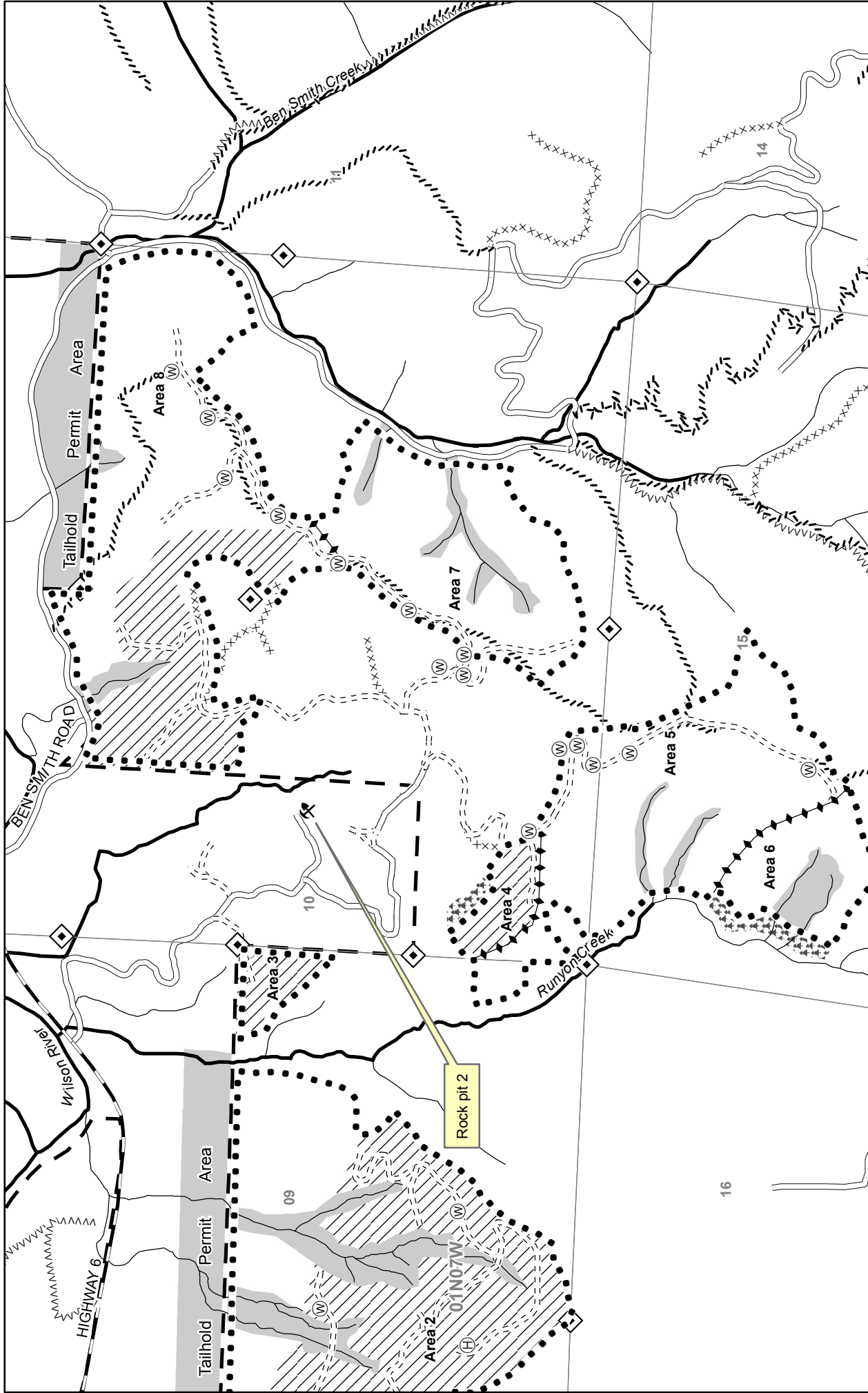


LOGGING PLAN

Timber Sale Contract No. 341-13-070
RUNYON EX
Portions of Sections 9, 10, 11, 15 and 16
T1N, R7W, W.M.,
Tillamook County, Oregon

Tillamook District GIS
09-20-2012
This product is for informational use and may not have been prepared or suitable for legal, engineering, or surveying purposes.

Area	Type of Operation	Gross Net Acres
1	Retention cut	36
2	Modified clearcut	125
3	Modified clearcut	7
4	Modified clearcut	9
5	Partial cut	65
6	Modified clearcut	22
7	Retention cut	51
8	Retention cut	104
Total		419



LOGGING PLAN

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Portions of Sections 9, 10, 11, 15 and 16
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Rock source

- ⊗ Stock pile
- Ⓢ Waste area
- ⌵ Bridge
- ⬮ Gate
- ⬮ Survey corner
- ⬮ Domestic water supply intake
- ⬮ Truck turn-around
- ⬮ Helicopter landing zone
- ⬮ Cultural site

Landing

- Buffer
- ⊗ Non-required thinning
- ⊗ Cable yarding
- ⊗ Ground yarding
- ⊗ Helicopter yarding
- ⊗ Downhill yarding
- ⊗ Green tree retention area

Restricted area

- ⊗ Area boundary
- ⊗ Sale boundary
- ⊗ Ownership boundary
- ⊗ Perennial Type-F stream
- ⊗ Perennial Type-N stream
- ⊗ Unsurfaced road
- ⊗ Surfaced road
- ⊗ Paved road
- ⊗ Abandoned road

Swing road

- ⊗ Non-project road
- ⊗ Blocked road
- ⊗ OHV trail
- ⊗ Non-motorized trail
- ⊗ Transmission line
- ⊗ Railroad
- ⊗ Helicopter landing

Scale

1,000 Feet

0 1,000

Area	Type of Operation	Gross Net Acres
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