

IDAHO PANHANDLE NATIONAL FORESTS

2450  
Commercial Sales - Proposed

04-2420-01

STARS # 8401

**CEDAR SIDE BOARD TIMBER SALE REPORT**  
**AND**  
**APPRAISAL**

DISTRICT

SUPERVISOR'S OFFICE

Prepared Jeanne Pedro White  
By

Reviewed for Advertisement

Date: \_\_\_\_\_

\_\_\_\_\_  
By

\_\_\_\_\_  
Date

Reviewed \_\_\_\_\_  
By

Date \_\_\_\_\_

Reviewed \_\_\_\_\_  
By

Date \_\_\_\_\_

I hereby certify that this sale meets  
the requirements of Secretary's  
Regulation 36 CFR 223.30.

\_\_\_\_\_

Staff Officer, Timber

\_\_\_\_\_  
Date

Cedar Side Board Creek  
Timber Sale Report

**NOTE: This sale was broken out from the Cedar Creek Timber Sale which did not sell in 2007. This sale features C2.11# timber subject to agreement. The timber subject to agreement is helicopter Units 15H, 16H, and 17H, these units were appraised separately.**

**I. Location**

Contained within the Sale Area Boundary are approximately 3351 acres located in all or portions of the following legal descriptions:

Sections 35,36 T43N, R1E.  
Sections 1, 2, 3. 11, 12 T42N, R1E.  
Section 6,7 T42N, R2E.  
Section 31. T43N, R2E.

All Boise Meridian, Shoshone County, Idaho.

The timber stand atlas compartment number is 4-29 of the St. Joe Ranger District, Idaho Panhandle National Forests. Timber harvest activity is planned on approximately 337 acres (includes Rd ROW). The sale area lies in the St. Maries, Emerald Creek & Cedar Creek drainages.

A. Area and Ownership

a. National Forest:

- i. Sale Area approximately 3351 acres
- ii. Net Activity approximately: 337 acres

B. Appraisal Point: St. Maries, Idaho

This sale has 3 distinct haul routes:

- 1) Rds 504G->504F->504E->504A->504->State Highway 3.
- 2) Rds 3335C->3335->State Highway 3.
- 3) Rds 3321E->3321C(Cost Share)->3321B(Cost Share->3321A(Cost Share)->3321(Cost Share)->301(County)->State Highway 3.

General access from St. Maries, Idaho to the Sale Area is provided by heading south on State Highway 3 towards Clarkia, ID. Cutting Unit access is gained via the following routes:

- 1) Units 3, 4 & 5: Rd 301 to Rd 3321
- 2) Units 15: Rd 504 to Rd 3557A to Rd 3557.
- 3) Units 6 & 18 (Northern portion): Rd 3335
- 4) Units 7, 16, 17 (portion) & 18 (Southern portion): Rd 504 to 504E.
- 5) Units 17 (portion): Rd 504 to Rd 504A.
- 6) Unit 18: Rd 504, Rd 504A Rd 504F.
- 7) Unit 2: Rd 504, 504A & Rd 504G

**II. Relationship to the Environmental Document and Other Uses**

This sale is prepared under the direction of the Hidden Cedar FSEIS, approved by the Forest Supervisor Ranotta K. McNair on 3/06/2007. The purpose of this sale is to achieve vegetative & watershed goals. This sale lies in Forest Plan Management Area 1 & 4. Refer to site specific design criteria approved in the NEPA document.

A. Relationship to Private Land/Rights-of-Way: An actual unit boundary for Unit 3 is adjacent to other land ownership. The landline adjacent to Unit 3 was "freshened" up in 2003.

B. Threatened, Endangered and Sensitive Species:

B6.24 Protection Measures Needed for Plants, Animals, Cultural Resources, & Cave Resources.

C6.316#-Limited Operating Period. (3/89)

- Operate one subdivision at a time for wildlife security.

-In Units 7, 15, 16 & 17,15H, 16H, and 17H no felling, skidding, road construction or other potentially disturbing activities may occur between March 15 and August 15 refer to Goshawk requirements in FSEIS.

-If a Goshawk nesting area is found within or adjacent to a unit, the following measures may be taken:

Included timber may be deleted in an area of approximately 30 acres around the site, as determined by Forest Service. Other activities, such as road construction, may also be suspended in this 30-acre area.

No felling, skidding, road construction or other potentially disturbing activities within approximately 1/2 mile of the nest site, as determined by the Forest Service, may occur between **March 15 and August 15**.

Activity restrictions can be removed after June 30 if the District Wildlife Biologist determines that the nest site is inactive or unsuccessful.

- Culvert installation and removal shall occur from July 15<sup>th</sup> - September 1<sup>st</sup>, for Fish Habitat Protection.

B6.221 - Protection of Improvements. In Unit 5 Clearwater Power Company has an underground powerline. See Sale Area Map & Contract for details.

C. Wetlands/Streamside Habitats: Wetlands identified during field review or harvest preparation have been exclude or protected by INFISH buffers.

D. Special Uses, Mining Claims, Range Allotments:

Mining Claims: The Sale Area is open to prospecting but currently there are no known applications or active claims on file.

Range Allotment: Merry Creek Allotment is within the sale area.

E. Noxious Weeds: C6.351#-Washing Equipment. (07/07). Prior to initial and any subsequent entries into the Sale Area, Purchaser **is required** to wash all off road logging and construction equipment.

F. Cultural Resources: There are extensive sites within the Sale Area Boundary. Sites found during Sale Prep were buffered, or are not located in any proposed treatment areas. Refer to B6.24 Protection Measures Needed for Plants, Animals, Cultural Resources, & Cave Resources.

G. Site Condition -C6.406 - Unless otherwise agreed in writing, in Cutting Units 2,3,4,5,6,7,15,16,17,18 and 15H,16H,and 17H the following site condition is required:

A minimum of 17 tons and a maximum of 33 tons of woody material (> 3 inches in diameter) will be left evenly distributed on each acre.

Purchaser may be required to remove limbs and tops prior to skidding or yarding or return them to the area after skidding or yarding in order to meet the minimum requirement. If the maximum requirement is not met through normal logging operations, slash will be treated in accordance with specifications listed in the Hazard Reduction and Site Preparation Plan.

### **III. Timber Volumes**

The sale was cruised utilizing Forest Service & Bond Inc (Private Contractor) personnel. Cruising was completed during the 2003 field season. All Forest Service Cruise Assistants were under the direct supervision of Certified Cruisers.

Forest Service Personnel: Cruise design and implementation procedures adhered to the standards prescribed in the Forest Service Cruising Handbook 2409.12 and all R1 and IPNF Supplements.

Bond Inc: Marking and cruising requirements were followed as detailed in the Marking & Cruising Contract #53-0281-3-25A.

A copy of the Cruise Design and cruising specifications for Forest Service Personnel can be found in the Sale Prep folder located in the St. Maries Office of the St. Joe District. Details for Bond, Inc. Marking and Cruising Contract #53-0281-3-52A is on file @ the St. Joe District Office in St. Maries, ID.

#### **ERROR TERM, VOLUME AND CONFIDENCE INTERVAL :**

##### **A. AGGREGATED BY UNIT OF MEASURE:**

- 1. Product 01: 10.89%
- 2. Product 08: 13.02%
- 3. Combined Products: **10.19%**

B. Maximum allowable for a scaled sale is 20%.

C. Strata Error: Maximum Allowable: 40%. See table below for individual Strata Errors.

D. Confidence Interval: 95%

**Cruise ID#: 0013. Report Name: Cedar Side Boards Final 11/15/2007.**

C. Total Volume (All Products): 6959 CCF (Cruise Report CS1)

- a. Sawtimber: 6508 CCF
- b. Non Saw (Top Wood): 451 CCF

#### **Cruising - Forest Service Personnel:**

CHIEF OF PARTY: Mike Hicks (Crew Leader), William Brandt (Assistant Crew Leader).

CERTIFIED CRUISERS: Mike Hicks, William Brandt, Shanna Smith, Stephanie Thurston, Wes Case (obtained Qualified certification 3/04), Cliff Avery (Check/Advanced).

CRUISE ASSISTANTS: Wes Case (prior to obtaining Qualifed Cruiser Cert), Lindsey Boyd, Cynthia Johnston, Bevin Protas, Amy Eckert, Noah Krier, Derrick Cox, Jessica Christensen, Roy Shelby.

Cruising - Bond Inc Personnel: Joe Vairus

Units Cruised by Forest Service Personnel: 2, 7, 15, 16, 17, and all ROW.

Units Cruised by Bond Inc. Personnel: 3, 4, 5, 6, 18.

I certify that this sale was cruised by competent cruisers as determined by adequate testing. In my opinion, the cruise estimates of the volume to be cut are within acceptable limits (FSH 2409.12) as required for Scaled sales. The Check Cruise Report #16 is on file at the St. Joe Ranger District, St. Maries, ID and the Forest Supervisor Office, Coeur d'Alene, ID.

By: Cliff Avery  
Title: Zone Check Cruiser

Date: 5-2007

CCF Volume

CCF Volume

CCF Volume

Unit	Acres	Logging System	Silv Rx	GF	AF	LP	H	DF	L	S	WP	PP	C	Unit Sawlog Totals	Top wood	Small Sawlog	Pulp	Cedar Prod	Non Sawlog
2	24.1	Skyline	SW1	97	5	37	39	18	93	3	3	0	7	302	21	0	0	0	21
3	35.7	GB/Skylin	SW1	144	7	54	57	27	136	4	4	0	11	444	32	0	0	0	32
4	19.9	GB/TLM	SW1	80	4	31	32	15	76	2	2	0	6	248	18	0	0	0	18
5	30.0	GB/TLM/SKY	CT	104	0	90	106	75	30	2	5	0	14	426	27	0	0	0	27
17	89.0	GB/Sky/TLM	CT	309	0	268	318	223	90	7	16	0	37	1268	79	0	0	0	79
18	19.0	GB/Sky//TLM	CT	66	0	57	68	47	19	2	3	0	8	270	17	0	0	0	17
7	21.4	Skyline	SW1	159	0	93	108	119	8	0	2	0	34	523	48	0	0	0	48
15	12.0	Skyline	CT	91	0	53	61	68	5	0	1	0	19	298	28	0	0	0	28
16	47.0	Skyline	CT	347	0	204	235	260	18	0	4	0	73	1141	105	0	0	0	105
6	19.4	GB/Skyline	SW	144	0	85	98	108	7	0	2	0	30	474	44	0	0	0	44
99	5.5	ROW	ROW	120	0	19	7	88	46	0	8	3	26	317	10	0	0	0	10
102	2.3	ROW	ROW	50	0	8	3	37	19	0	3	2	11	133	4	0	0	0	4
103	2.8	ROW	ROW	61	0	10	3	45	24	0	4	2	13	162	5	0	0	0	5
104	3.0	ROW	ROW	65	0	11	4	48	25	0	4	2	14	173	5	0	0	0	5
105	1.3	ROW	ROW	28	0	5	2	21	11	0	2	1	6	76	2	0	0	0	2
106	2.5	ROW	ROW	54	0	9	3	40	21	0	4	2	12	145	5	0	0	0	5
100	1.0	ROW	ROW	23	0	8	2	17	0	0	0	0	8	58	0	0	0	0	0
101	1.4	ROW	ROW	27	0	0	0	14	5	0	1	0	3	50	1	0	0	0	1
Totals	337.3			1969	16	1041	1145	1270	634	20	68	11	334	6508	451	0	0	0	451

Units having TLM, loggin method could be substituted for Skyline with multi spans  
**Conversion to ccf to tons = 3.09**

Timber Subject to Agreement (C2.11#)

Unit	Acres	Logging System	Silv Rx	GF	AF	LP	H	DF	L	S	WP	PP	C	Unit Sawlog Totals	Top wood	Small Sawlog	Pulp	Cedar Prod	Non Sawlog
17H	35	Helicopter	CT	120	0	104	123	86	35	3	6	0	15	492	31	0	0	0	31
15H	43	Helicopter	CT	321	0	189	218	241	16	0	4	0	68	1057	97	0	0	0	97
16H	27	Helicopter	CT	203	0	119	138	153	10	0	2	0	43	668	62	0	0	0	62
Totals	105			644	0	412	479	480	61	3	12	0	126	2217	190	0	0	0	190

#### IV. Marking Plan

Standard Unit Boundaries: Three vertical stripes of ORANGE paint approximately 3'- 4' in length with the mid-point of each vertical stripe is to be roughly at "eye-height" or higher if brush conditions warrant. The center vertical stripe shall face into the area to be treated. Each painted boundary tree shall have an adequate "stump" mark located on the downhill side of the tree as close to the ground line as practical, with more paint applied horizontally, not vertically..

"Tyvek" Tag Unit Boundaries: BLUE Tyvek "BOUNDARY PARTIAL CUT" Tags are placed roughly at "eye-height" facing into the area to be treated. Tagged trees have an accompanying ORANGE painted "stump" mark located on the downhill side of the tree as close to the ground line as practical, with more paint applied horizontally, not vertically. The Unit number is written on the tag.

Cut Tree Mark (CTM): A horizontal line approximately 5 feet above ground level, or higher if brush conditions warrant on both the up and downhill side of the tree with BLUE paint. In addition, a BLUE mark shall be painted on the "stump" on the downhill side as close to the ground line as practical, with more paint applied horizontally, not vertically. The boundary tags in the units state Cedar Creek instead of Cedar side Boards but they are one and the same.

Leave Tree Mark (LTM): A horizontal line approximately 5 feet above ground level, or higher if brush conditions warrant, on both the up and downhill side of the tree with ORANGE paint. In addition, a ORANGE mark shall be painted on the "stump" as close to the ground line as practical, with more paint applied horizontally, not vertically.

Wildlife Trees (WT): Are designated with a ORANGE "X" approximately 5 feet above ground level, or higher if brush conditions warrant, on both the up and downhill side of the tree. In addition, a ORANGE mark shall be painted on the "stump" on the downhill side as close to the ground line as practical, with more paint applied horizontally, not vertically.

White Pine Plus Trees: These White Pines **may be** identified by various methods which include; a ORANGE "diamond shaped" aluminum tag and an Orange painted band around the stem or a small aluminum rectangular tag approximately 1 inch x 2 - 4 inch. These trees have a liquidated damage fine of \$5,000. Prior to any logging activity the Purchaser should meet with the Sale Administrator to determine the location of White Pine Plus trees and discuss protection measures.

See Appendix A for unit by unit descriptions of Silv & Marking Rx's, Cruise & Boundary Method.

#### V. Logging System Summary

This sale contains a mix of logging systems. The following table is a summary of type of system, approx. acres & volumes as well as average yarding distances. This is based on **SawLog only**.

<b>System</b>	<b>% Acres</b>	<b>% Volume</b>	<b>Volume</b>	<b>Vol Wtd Yard Dist</b>
Ground Base	28	33	2122	200

Skyline & TLM	72	67	4386	1200
Totals:	100	100	6508	-

For Appraisal purposes, the values in Skyline include all TLM (Tracked Line Machine) volumes. See C6.4# for description and Sale Area Map for locations for of areas designated for TLM.

System	% Acres	% Volume	Volume	Vol Wtd Yard Dist
Helicopter (Timber Subject to Agreement C2.11#)	100	100	4319	2200

### V. Transportation System

#### Specified Roads Construction/Reconstruction

Rd #	Name	Const	Reconstruction
504A	Clarkia Peak		1.20
504E	Parallel	1.13	
504F	Cedar Shake	0.57	
504G	Clarkia Overlook		0.75
3321A	Christmas Time		0.36
3321B.1	Christmas Carole		0.95
3321B.2	Christmas Carole	0.60	
3321C.1	Christmas Jingle		0.44
3321C.2	Christmas Jingle	0.52	
3335C	Misfire	0.50	
3321E	Christmas Bell	0.27	
3557A	Cedar Butte Spur A		.25
3557	Cedar Butte		.33
Total		3.59	4.28

#### Existing Roads utilized for the Timber Sale

Rd #	Name
504	Clarkia - Emerald Creek
301	Fishhook - Gold Center
447	Emerald Creek
3335	Poacher

#### Temporary Roads & Cost

Unit 7: This existing road was decommissioned around 2000. The basic prism is still there and would require some cat or excavator work to get into suitable shape for logging. An allowance has been made to reconstruct it and return it to same condition prior to opening the road, seeding costs included.

Length: 0.13 mi. Total Cost: \$530.00

Unit 17: New construction temp road to access a segment of skyline.  
 Length: 0.1 mi. Total Cost: \$650.00

Total Temporary Road Costs	\$1,180
<b>Cost/CCF</b>	<b>\$ .18</b>

**VI. Erosion Control**

Application shall be during the period **May 15 to June 30 to September 1 to October 31.** Seed shall be applied evenly at the rate of **23 pounds per acre** and **300 pounds of fertilizer per acre.**

**Seed Mix & Quantity**

Species	PLS lbs/acre
Slender Wheatgrass "Highlander" or "Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" (Festuca ovina)	5
White Dutch Glover or Alsike Clover (Tirfolium hybridum)	3
Annual rye (Lolium multiflorum)	4
<b>Total</b>	<b>23</b>

Fertilizer Mix	16-16-16
Application Rate / acre	300

Labor : \$/hr (AD-3)	\$13.24
Seed \$/lb	\$ 4.00
Fertilizer \$/lb	\$ 0.45

Acres to be seeded	3
Total Seed lbs & \$/lb	69lbs/\$4.00/LB = \$276
Total Fertilizer lbs & cost	900lbs/\$0.45= \$405
Total Cost (seed & fert)	\$681
Labor Cost (1 person @ 3 ac/day)	\$105.92
Total seed & labor cost	\$786.92
<b>Cost/CCF</b>	<b>\$ .12</b>

**VII. Hazard Reduction**

The sequence of activities and activity costs are attached. Costs are generated through the FACTS program.

**Purchaser requirements:**

- ◆ Grapple Pile landings in all cutting units.
- ◆ Lopping in units 3,4,5,6,7,15,16,17,and 18. (15H,16H, and 17H optional)
- ◆ Grapple piling in units 5, 7,15,16,17, and 18. (15H,16H, optional)
- ◆ Construct Hand fireline in Unit 2.

**Forest Service requirements:**

- ◆ Burning all piles.
- ◆ Construct fireline along the eastern boundary of unit 2.
- ◆ Jackpot burn unit 2

Attach FACTS data for forest service requirements.

SAI Requirements Non-Essential:

- ◆ Noxious Weeds Treatment and Monitoring
- ◆ Watershed Protection and Improvement

**X. Other Provisions**

A. Period of contract:

1. Normal operating season: **June 1 through October 15**
2. Termination date: **October 31, 2013**
3. Road Completion Date: **October 15, 2010**

B. Purchaser Fire Liability:

1. Personnel and Equipment

Items	# Items	# Personnel
Skyline Crew	2	6
Groundbase Crew (GB)	2	13
Sawyers - Skyline & GB	2	4
Mech Felling	1	1
Loader	2	2
Log Trucks	6	6
Woods Boss	1	1
Totals	--	33

2. Cost Calculations

Total number of personnel	33
Number of hours per day	12
Total hours per crew day	396
Hourly rate for AD-C firefighter	\$13.24
Average daily cost	\$5,243.00
Average fire length	5
Purchaser obligation for operation fire	\$26,215.20
<b>Rounded up to nearest \$100</b>	<b>\$26,300.00</b>

3. Other unique requirements:

C6.41# - Special Felling Requirements (10/01). Requirements in this provision are to protect the soil resource as well as reduce the activity fuel loading. Requirements listed as "Soil (Slash Reduction)" in "Item or Area to be Protected" deal with regeneration units that will be broadcast burned which are adjacent to commercial thin units. No cost adjustment was made. This applies to groundbase units 3,4,5,6,7,15,16,17,18 and Timber Subject to Agreement Units 15H, 16H and 17A.

C6.4#- Units 15, 16, 17, 4, and 5 were designed to have Track Line Machine skid/yard the wood. This is still an option for purchaser to use. Otherwise the purchaser will need to use multi-spans to log the units.

C6.41# - In the helicopter portions of Units 15H, 16H, 17H, a processor head can cut and bunch the timber as long as the machine runs over slash or frozen ground conditions, as long as there is no compaction to the soils. If these conditions do not exist the purchaser will not be allowed to use the machine in these helicopter units.

B6.33 - Safety. Due to Unit's 2 proximity to State Highway 3, an allowance was developed based on Certified Highway Flagger's during the felling phase of purchaser's operations. See Allowance Summary for cost.

Purchaser Grapple Piling Machine Mobilization. Due to the fragmentation of the timber sale units and the requirement to have slash cycle through at least 1 wet period, an adjustment has been made for equipment mobilization.

This was based on 1 initial mobilization to a point within the project area with a cost of \$750. It will be necessary to low boy the grapple machine 2 more times to other areas within the Sale Area with a cost of \$350 ea.

Initial Mobilization	\$750
2 Additional Mobilization @ \$350 ea	\$700
<b>Total</b>	<b>\$1450</b>

**XI. Notification of Forest Practices**

(Check appropriate box)

X	Harvest of forest tree species.
X	Road construction associated with harvesting of trees.
	Reforestation.
	Use of chemicals or fertilizers for the purpose of growing or managing forest tree species..
X	Slashing or use of fire resulting from harvest or other management activities.
	Site specific BMP's
	Lake Present?
X	Class I stream present?
	Steep Slopes?
X	Unstable or erodible soils present?
	Stream crossings anticipated?

**XII. Sale Objective Code**

PURPOSE	ACTIVITY	PERCENTAGE

TC	10	100

**VALID PURPOSE CODES:**

TC -- Timber Commodity Purpose  
 FS -- Forest Stewardship Purpose  
 PP -- Personal Use

**VALID ACTIVITY CODES:**

TC 01 -- Timber Purpose  
 FS 10 -- Forest and Ecosystem Health  
 FS 20 -- Recreation/Visual/Cultural Resource Enhancements  
 FS 30 -- Wildlife Habitat Management  
 FS 40 -- Fisheries Habitat Management and Watershed Improvement  
 FS 50 -- T&E Species Habitat Management  
 FS 60 -- Range Resource Enhancements  
 FS 70 -- Non-Timber Products  
 FS 90 -- Other  
 PP 80 -- Personal Use Products

**XIII. Allowances Summary**

B6.33 - Safety. Due to Unit's 2 proximity to State Highway 3, an allowance was developed based on Certified Highway Flagger's during the felling phase of purchaser's operations.

Highway Flaggers		\$1350.00
	<b>Cost/CCF</b>	<b>\$.21</b>

Temporary Road Development:

Total Temporary Road Costs		\$ 1180
	<b>Cost/CCF</b>	<b>\$.18</b>

Erosion Control:

Total Seeding, Fertilizing & Labor		\$785.00
	<b>Cost/CCF</b>	<b>\$.12</b>

Purchaser Grapple Piling Machine Mobilization:

Total Mobilization		\$1450
	<b>Cost/CCF</b>	<b>\$.22</b>

C5.419 - System Road Stabilization

<b>Total \$ System Road Stabilization</b>		\$23,500
	<b>Cost/CCF</b>	<b>\$3.61</b>

**Costs developed for C2.11# units:**

Helicopter Landing Development (Optional)

Costs for Helicopter Landings were based on a total of 3 landings @ approximately 0.4 acre each. The method of cost development was Time & Equipment using the Engrg Cost Guide. See TSR & Appraisal Appendix Allowances Spreadsheet for Details.

Total \$ for Construction & Decommission	\$8,358.43
<b>Total CCF</b>	<b>\$3.77</b>
<b>Total Tons</b>	<b>\$1.12</b>

**Note:** Landings will be decommissioned at the same Decommission Rx as the adjacent road.

**VII. Erosion Control (Optional)**

Application shall be during the period **May 15 to June 30 to September 1 to October 31**. Seed shall be applied evenly at the rate of **23** pounds per acre and **300** pounds of fertilizer per acre.

**Seed Mix & Quantity**

Species	PLS lbs/acre
Slender Wheatgrass "Highlander" or "Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" (Festuca ovina)	5
White Dutch Glover or Alsike Clover (Tirfolium hybridum)	3
Annual rye (Lolium multiflorum)	4
<b>Total</b>	<b>23</b>

Fertilizer Mix	16-16-16
Application Rate / acre	300

Labor : \$/hr (AD-3)	\$13.24
Seed \$/lb	\$ 4.00
Fertilizer \$/lb	\$ 0.45

Acres to be seeded	5
Total Seed lbs & \$/lb	115 lbs/\$4.00= \$460
Total Fertilizer lbs & cost	1500 lbs/\$0.45 =675
Total Cost (seed & fert)	\$1,135.00
Labor Cost (1 person @ 3 ac/day)	\$176.54
Total seed & labor cost	\$1,311.54
<b>Total CCF</b>	<b>.59</b>

