Appendix N

APPENDIX N:
DEA Large Woody Debris Survey Data

Stream: Little Bear Creek **Reach: 1 WOOD**
Date: 6/25/01
Crew: Scott & Joe

						Zone %								Decay	
NSO	Hab ID	STA	Bank	Length (M)	Dia (CM)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Class	Comments
1	R1	9.1	LB	3.2	22	90	10	-	-	N	N	N	Decid.	4	Under walk bridge
1	R1	11.1	LB	2.6	21	5	95	-	-	A	N	Y	Doug Fir	4	Fractured beam?
1	R1	100.8	LB	3	13	5	95	-	-	N	N	N	Decid.	3	
1	R1	102	RB	5.9	20	0	100	-	-	N	N	N	Decid.	3	Beaver chewed
6	P3	245.7	Cross	4.3 +	48	100	0	-	-	A	Y	Y	Doug Fir	3	Placed-created plunge pool
6	P3	245.7	RB	5.5	13	70	30	-	-	N	N	N	?	3	
7	R4	260.5	RB	3.5	50	100	-	-	-	A	Y	Y	Conif.	3	V-weir connected to next
7	R4	260.5	LB	3.5	50	100	-	-	-	A	Y	Y	Conif.	3	V-weir connected to previous
8	P4	288.3	Cross	4.9	50	100	-	-	-	A	Y	Y	Conif.	3	Weir
9	P5	303.5	RB	4.3	47	100	-	-	-	A	Y	Y	Conif.	3	V-weir
9	P5	303.5	LB	3.7	50	100	-	-	-	A	Y	Y	Conif.	3	V-weir
11	R6	331.4	LB	1.7	40	100	-	-	-	A	N	Y	Conif.	3	Embedded V-weir
11	R6	331.4	RB	1.7	38	100	-	-	-	A	N	Y	Conif.	3	Embedded V-weir
11	R6	354.5	Cross	5	30	100	-	-	-	A	N	Y	Conif.	3	
12	R7	370.8	RB	5	15	20	80	-	-	N	N	N	Alder	1	Recently fell into stream
12	R7	370.8	RB	5	13	20	80	-	-	N	N	N	Alder	1	Recently fell into stream
				58.5	520										

Stream: Little Bear Creek **Reach: 2. Wood**
Date: 6/26/01
Crew: Scott & Joe

				Length	Dia.	Zone %									
NSO	Hab ID	STA	Bank	(m)	(cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
3	P1	57.5	Cross	12.5	46	5	80	15	0	N	N	N	BLM	4	Crosses center of pool
3	P1	57.5	LB	2.6	22	5	95	0	0	A	N	Y		NA	Railroad Tie- on top of other LWD
4	R3	94.3	RB	6	15	3	87	10	0	N	N	N	Decid.	3	Tips in water
4	R3	94.3	RB	5.5	12	4	86	10	0	N	N	N	Decid.	3	Tips in water
4	R3	105.6	RB	5.7	15	30	70	0	0	N	N	N	Decid.	3	
5	P2	122.4	LB	13	35	5	15	40	40	N	N	N	BLM	3	Fallen Tree Cluster
5	P2	122.5	LB	13	30	5	15	40	40	N	N	N	BLM	3	Roots 1/2 in water
5	P2	122.6	LB	13	30	5	15	40	40	N	N	N	BLM	2	BLM = big-leaf maple
5	P2	122.7	LB	20	55	5	15	40	40	N	N	N	BLM	2	
7	P3	150.7	RB	15	90	30	40	30	0	N	Y	N	Cedar	2	Stump-nice-pool ~70yrs old.
9	P4	194.2	RB	3.6	37	10	20	20	50	N	N	N	Decid.	4	
				109.9	387										

Stream: Little Bear Creek
Date: 6/28/01
Crew: Scott & Joe

Reach: 2, day 2 Habitat.

				Length	Dia	Zone %									
NSO	Hab. ID	Sta.	Bank	(meter)	(cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
10	R6	231	RB	2.0	23	60	40	0	0	N	Y	N	?	3	partly visible, formed 5% Pool
11	P5	243	RB	4.0	30	100	0	0	0	N	Y+/-	N	?	4	
12	R7	248.2	LB	1.2	22	0	100	0	0	A	N	Y	?	NA	~ 1/2 length exposed railroad tie
13	R7	250.5	cross	5.5	32	90	10	0	0	N	N	N	Decid.	4	
14	R8	277	LB	1.3	22	40	60	0	0	A	N	Y	-	-	Railroad Tie fallen-part of fence.
15	P6	309.9	cross	5.5	30	95	5	0	0	N	Y	N	Decid.	4	
15	P6	315.4	middle	4	30	50	50	0	0	N	N	N	Alder	2	
15	R9	350.5	LB	4	33	5	20	50	25	N	N	N	Alder	4	Part of fallen snag
15	R9	358.9	RB	2.4	30	30	70	0	0	N	N	N	Conifer	4	Slice of stump
15	R9	377.7	LB	4	20	2	68	30	0	N	N	N	Alder	3	
16	R9	383.7	LB	4	25	5	90	5	0	N	N	N	Alder	3	
16	R9	393.9	LB	4.5	27	10	10	60	20	N	N	N	Alder	2	Fry ~ 1inch
16	P7	393.9	LB	~10	28	5	10	75	10	N	N	N	Willow	1	Still alive but fallen into pool
16	P7	395.4	LB	~10	15	10	80	10	0	N	N	N	Decid.	2	3 small stumps also
16	P7	395.4	LB	2	13	5	95	0	0	N	N	N	Decid.	3	
16	P7	395.4	LB	2	15	50	50	0	0	N	N	N	Decid.	4	
16	P7	398.7	LB	5	30	10	85	5	0	N	N	N	Decid.	3	
16	P7	398.7	LB	4	35	30	70	0	0	N	N	N	Decid.	3	
16	P7	399.6	LB	3.6	13	90	10	0	0	N	N	N	Decid.	3	
16	P7	399.6	middle	~9.5	35	40	60	0	0	N	N	N	Decid.	3	
16	P7	399.6	LB	3.5	25	10	20	70	0	N	N	N	Decid.	2	
19	R11	419.5	LB	2.1	35	5	20	75	0	A	N	Y	Decid.	-	Part of beam
21	R12	466	RB	4.5	16	20	20	60	0	N	N	N	Decid.	3	
24	P11	505.8	center	~10	17	30	70	0	0	N	N	N	Decid.	2	Rootwad persist
24	P11	505.8	center	3	12	50	50	0	0	N	N	N	Decid.	2	
24	P11	508.4	center	2+	43	50	50	0	0	N	N	N	Cedar	5	Cedar slab
24	P11	510.4	LB	6.8	15	10	80	10	0	N	N	N	Willow	1	Log-jam this station/area
24	P11	510.4	LB	6.5	12	5	75	20	0	N	N	N	Willow	1	Cluster

				Length	Dia	Zone %									
NSO	Hab. ID	Sta.	Bank	(meter)	(cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
24	P11	510.4	LB	6.8	15	5	65	30	0	N	N	N	Willow	1	Cluster
24	P11	510.4	LB	~5	11	5	95	0	0	N	N	N	Willow	1	Cluster
24	P11	510.4	LB	4	13	0	5	95	0	N	N	N	Willow	1	Cluster
24	P11	510.4	LB	~7	13	0	50	50	0	N	N	N	Willow	1	Cluster
24	P11	510.5	LB	2.5	70	30	60	10	0	N	N	N	Cedar	5	Old part of stump
24	P11	511.5	cross	~4	20	50	50	0	0	N	N	N	Conifer	5	
24	P11	511.5	cross	2.5	60	80	20	0	0	N	N	N	Conifer	4	Stump
24	P11	511.5	cross	~4.5	14	10	5	85	0	N	N	N	Willow	1	
25	R14	518	LB	~3	30	0	80	20	0	N	N	N	-		Plank 6 x 12"
25	R14	518	LB	2.6	40	20	80	0	0	N	N	N	Decid.	5	
25	R14	519	LB	2.5	35	5	10	85	0	N	N	N	Decid.	5	
26	P12	518	cross	~3	~25	10	60	30	0	N	N	N	?	4	cluster upstream of channel
26	P12	525.9	cross	6+	14	5	90	5	0	N	N	N	Decid.	3	buried one end
26	P12	525.9	cross	5.5	13	0	95	5	0	N	N	N	Alder	3	
26	P12	525.9	cross	3	13	20	70	10	0	N	N	N	Alder	3	
26	P12	525.9	cross	2+	12	100	0	0	0	N	N	N	Decid.	3	
26	P12	525.9	LB	~6	18	40	5	55	0	N	N	N	Alder	3	
26	P12	525.9	LB	2.5	25	0	40	60	0	N	N	N	Decid.	4	
26	P12	525.9	LB	~3	14	0	25	75	0	N	N	N	Alder	3	
26	P12	525.9	LB	~6	23	0	40	60	0	N	N	N	Alder	3	
26	P12	526	LB	~4	26	20	5	75	0	N	N	N	?	5	End Day.
				117.3	1162										

Stream: Little Bear Creek **Reach: 2 Wood**
Date: 06/29/01
Crew: Scott & Joe

						Zone %									
NSO	**Hab ID**	**STA**	**Bank**	**Length**	**Dia**	**Z1**	**Z2**	**Z3**	**Z4**	**Origin**	**Pool**	**MM**	**Species**	**Decay Class**	**Comments**
27	R15	543	LB	3+	35	80	20	0	0	N	N	N	?	5	Embedded
27	R15	547.4	LB	4.4	32	5	90	5	0	N	N	N	?	5	
27	R15	556.5	LB	2.3	30	70	30	0	0	N	N	N	Conifer	5	
27	R15	556.5	LB	3.8	18	5	30	65	0	N	N	N	Alder	3	
27	R15	568	LB	2.3	14	50	50	0	0	N	N	N	?	4	
27	R15	572.3	LB	2.4	10	10	90	0	0	N	N	N	?	3	
27	R15	575.1	LB	2.4	70	5	45	50	0	N	N	N	Cedar	5	Stump
27	R15	594.8	cross	15.5	39	2	18	80	0	N	N	N	Alder	4	
27	R15	594.8	cross	4.5	12	0	100	0	0	N	N	N	Alder	2	
28	P13	608	cross	9.3	19	30	40	30	0	N	N	N	Alder	3	Rootwad attatched
28	P13	608.5	RB	2	75	20	60	20	0	N	N	N	Decid.	5	Stump
30	P14	631.4	LB	2.3	100	95	5	0	0	N	N	N	Conifer	5	Stump
30	P14	634.2	in strm	1	20	80	20	0	0	N	N	N	?	5	Stump
30	P14	634.2	in strm	0.8	40	90	10	0	0	N	N	N	?	5	Stump
30	P14	636.4	in strm	3+	15	100	0	0	0	N	N	N	?	5	
30	P14	636.4	LB	1.3	100	30	40	30	0	N	N	N	?	5	Stump
31	R17	661.8	LB	3.6	35	60	40	0	0	N	N	N	?	5	
31	R17	671	RB	4.2	13	5	45	50	0	N	N	N	Alder	2	Beaver dropped-in past
31	R17	671	RB	3.8	18	40	60	0	0	N	N	N	Alder	4	
31	R17	662	RB	4.5	24	5	95	0	0	N	N	N	Alder	2	
32	R18	663	RB	2	19	5	90	5	0	N	N	N	Alder	2	
32	P15	663	RB	4.8	41	0	60	40	0	N	N	N	Decid.	5	
33	P15	686.1	2/3cross	~20	38	40	30	30	0	N	N	N	Cedar	1	
33	P15	686.1	LB	~25	70	5	20	70	5	N	N	N	Cedar	1	
33	P15	688.4	middle	4.3	20	50	50	0	0	N	N	N	?	4	
33	P15	688.4	middle	2+	15	100	0	0	0	N	N	N	?	3	
33	P15	690.9	middle	1.5+	110	30	60	10	0	N	N	N		5	Stump- cedar
33	P15	692.6	cross	~25	80	20	60	20	0	N	N	N	Cedar	1	fell same time last year?

						Zone %									
NSO	Hab ID	STA	Bank	Length	Dia	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
33	P15	692.6	middle	2	15	100	0	0	0	N	N	N	?	4	
33	P15	693	middle	2+	20	75	25	0	0	N	N	N	?	4	
33	P15	693	middle	2+	20	80	20	0	0	N	N	N	?	4	
33	P15	694	cross	~20	60	95	5	0	0	N	Y	N	Cedar	3	Created plunge
34	P16	710	middle	2.5	25	100	0	0	0	N	N	N	dogwood	4	Pacific Dogwood
36	P17	736.7	RB	2	12	60	40	0	0	N	N	N	?	2	Recent beaver activity
36	P17	738.1	RB	7.3	28	50	30	20	0	N	Y	N	Alder	3	Burned
39	P19	768.2	cross	~20	55	10	60	30	0	N	Y	N	Cedar	2	
39	P19	769	cross	5	130	10	90	0	0	N	Y	N	Cedar	5	
40	P20	770	RB	3.5	13	15	85	0	0	N	N	N	Alder	2	
39	P19	767	RB	~3	11	50	50	0	0	N	N	N	Decid.	4	
41	P21	788.7	LB	~15	80	20	40	40	0	N	Y	N	BLM	3	BLM = Big-leaf Maple
41	P21	788.7	LB	~10	26	10	10	80	0	N	Y	N	Alder	4	
41	P21	794	center	1.7+	50	30	70	0	0	N	N	N	?	4	Beaver using Japanese Knotweed
44	P22	845.1	cross	10	44	0	30	50	20	N	N	N	Cotton	1	
44	P2	846	LB	1.9+	30	100	0	0	0	N	N	N	?	4	
46	R24	872	RB	6.1	15	10	50	40	0	N	N	N	Alder	2	
46	R24	873	LB	2.9	29	95	5	0	0	N	N	N	?	5	
46	R24	875.6	LB	5.1	12	5	90	5	0	N	N	N	Alder	2	
46	R24	878.1	RB	2.7	17	5	95	0	0	N	N	N	Alder	3	
47	P23	889.1	LB	6	45	0	30	70	0	N	N	N	Conifer	4	On top of CMP
47	P23	890.2	LB	3.8	24	70	30	0	0	N	N	N	Conifer	5	
49	P24	897.5	LB	4.6	15	90	10	0	0	N	N	N	Decid.	4	
49	P24	898.2	LB	3.5	21	0	100	0	0	N	N	N	Decid.	4	
49	P24	898.5	RB	8	24	50	50	0	0	N	N	N	Decid.	4	
49	P24	898.5	RB	7.6	21	5	90	5	0	N	N	N	Alder	3	
49	P24	905.3	RB	3.8	23	20	70	10	0	N	N	N	DEC	4	
49	P24	905.3	RB	~6.5	14	5	30	40	25	N	N	N	ALD	3	
49	P24	910.1	CROSS	9.3	70	60	40	0	0	N	Y	N	CON	5	
49	P24	913.2	1/2 CROSS	4	30	70	30	0	0	N	Y	N	conifer	5	
49	P24	913.2	RB	3.3	20	90	10	0	0	N	N	N	conifer	5	
				184.5	2111										

Stream: Little Bear Creek
Date: 7/02/01
Crew: Scott and Joe

Reach: 2. Wood

				Length	Dia.	Zone %									
NSO	Hab ID	STA	Bank	(m)	(cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
51	R26	915	RB	3.8	18	60	40	0	0	N	N	N	?	5	
51	R26	929.2	RB	1.4	60	10	40	50	0	N	N	N	Conifer	3	Stump
53	P26	964.8	cross	4.7	80	30	60	10	0	N	N	N	Cedar	5	Burned
53	P26	965	middle	2	20	100	0	0	0	N	N	N	?	4	
55	P27	978	RB	12.7	70	5	15	80	0	N	N	N	?	5	Log-jam
55	P27	979	RB	~7	28	5	15	30	40	N	N	N	Alder	2	"
55	P27	978	RB	2.5	20	15	85	0	0	N	N	N	?	4	"
55	P27	979	RB	3.5	13	0	20	80	0	N	N	N	Alder	3	"
55	P27	979.5	RB	3	15	10	30	60	0	N	N	N	Alder	3	"
55	P27	986	LB	2.4	14	10	90	0	0	N	N	N	Decid.	4	Spread out - shallow area
55	P27	986	LB	~7	18	60	40	0	0	N	N	N	Decid.	4	"
55	P27	986	LB	3	26	30	70	0	0	N	N	N	Cedar	5	Stump
55	P27	986	LB	4.5	22	40	60	0	0	N	N	N	Decid.	3	"
55	P27	986	LB	3	11	10	90	0	0	N	N	N	Decid.	3	"
55	P27	988.9	cross	~25	70	10	10	40	40	N	Y	N	Cedar	1	At bend in stream
55	P27	988.9	RB	~4	50	10	40	50	0	N	N	N	Conifer	4	In previous log-jam
55	P27	989	RB	~7.5	20	5	10	85	0	N	N	N	Alder	3	In previous log-jam
56	R29	1007	RB	6.1	60	40	55	5	0	N	N	N	Decid.	5	burn marks
56	R29	1013.9	RB	~5	13	10	30	30	30	N	N	N	Alder	3	
57	P28	1042.6	LB	2+	16	0	95	5	0	N	N	N	Willow	3	Embedded
57	P28	1045.2	LB	2.9	24	40	40	20	0	N	N	N	Conifer	5	Burned
57	P28	1045.2	LB+	6.5	60	60	40	0	0	N	N	N	Conifer	5	Burned
57	P28	1046.7	CROSS	6.3	50	100	0	0	0	N	~Y	N	Conifer	5	
57	P28	1050.8	MID	3.5	24	100	0	0	0	N	N	N	Conifer	5	
58	P29	1057.2	MID	2.4	15	20	70	10	0	N	N	N	?	4	
58	P29	1064	MID	3	20	100	0	0	0	N	N	N	?	5	
59	R30	1068.2	LB	4.5+	20	20	80	0	0	N	N	N	?	4	
59	R30	1069	LB	2.4	20	90	10	0	0	N	N	N	?	4	

				Length	Dia.	Zone %									
NSO	Hab ID	STA	Bank	(m)	(cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
59	R30	1071	LB	4.5	29	95	5	0	0	N	N	N	?	5	
60	R30	1079.3	LB	3.8	30	20	80	0	0	N	N	N	?	4	
60	P30	1087.4	RB	2.7+	60	100	0	0	0	N	N	N	?	5	
62	R32	1111.2	RB	3.5	13	40	60	0	0	N	N	N	Alder	3	Lots reed canary grass
62	R32	1111.2	RB	3+	25	100	0	0	0	N	N	N	?	5	RB
63	R33	1117	LB	9.1	37	5	95	0	0	N	N	N	Alder	3	
63	R33	1120	LB	7+	17	5	90	5	0	N	N	N	?	4	Beaver Chew
63	R33	1125	LB	7.5	12	5	10	85	0	N	N	N	Alder	3	
63	R33	1125	LB	8	17	10	80	10	0	N	N	N	Alder	2	
63	R33	1125	LB	2+	25	0	10	90	0	N	N	N	Decid.	4	
63	R33	1125	RB	2.3	10	100	0	0	0	N	N	N	Conifer	5	
63	R33	1125	LB	2.2	20	0	50	50	0	N	N	N	Decid.	3	
63	R33	1126.4	LB	1.6+	40	95	5	0	0	N	Y	N	Conifer	5	Pocket pool
63	R33	1127	cross	4.5+	13	40	40	20	0	N	N	N	Decid.	4	
64	P31	1133.3	LB	2+	40	95	5	0	0	N	N	N	Conifer	5	Buried stump next to this
64	P31	1138.5	middle	4	15	90	5	5	0	N	N	N	Decid.	4	Nice pool
64	P31	1140.8	cross	12.5+	70	100	0	0	0	N	Y	N	Conifer	5	Embedded
65	P32	1148	LB	3.5+	27	65	25	10	0	N	N?	N	Conifer	5	Embedded
65	P32	1157	cross	5.8	16	50	45	5	0	N	N	N	Alder	3	
65	P32	1157	RB	2	35	10	85	5	0	N	N	N	Conifer	5	Raccoon tracks
65	P32	1158.5	cross	7.6	14	5	30	65	0	N	N	N	Alder	1	
67	P33	1165.5	cross	~30	70	5	10	30	55	N	N	N	Conifer	1	Cluster.
				139.9											

Stream: Little Bear Creek **Reach: 2 WOOD**
Date: 7/06/01
Crew: Scott & Joe

						Zone %								Decay	
NSO	Hab ID	STA	Bank	Length	Dia	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Class	Comments
70	R36	1184	LB	2	21	5	95	0	0	N	N	N		5	
71	R37	1187	RB	2.9	210	5	10	75	10	N	N	N	Conifer	4	Giant Stump
71	R37	1187	RB	2.4+	18	30	70	0	0	N	N	N		5	
71	R37	1189.3	LB	5.2	25	5	80	15	0	N	N	N	Decid.	4	
71	R37	1191.8	LB	3.1	19	0	95	5	0	N	N	N	Decid.	4	
71	R37	1191.8	cross	7	12	5	5	80	10	N	N	N	Alder	1	
71	R37	1191.8	LB	4.1	17	0	5	10	85	N	N	N	Alder	3	
75	P37	1235.6	LB	5.4	19	5	95	0	0	N	N	N	Alder	3	Photo 4, Roll 3
80	R43	1294.3	LB	3.5	33+	50	50	0	0	N	Y	N		4	Photo 3, Roll 3
80	R43	1296.8	LB	6.2	23	5	10	85	0	N	N	N	Alder	3	
81	P39	1302.7	cross	11.5	30	10	80	10	0	N	N	N	Alder	1	
81	P39	1303	LB	7.1	26	15	85	0	0	N	N	N	Alder	3	
81	P39	1302.7	RB	5.2+	13	0	20	80	0	N	N	N	Alder		
82	P40	1315.9	cross	3+	65+	100	0	0	0	N	N	N	Conifer	5	
84	R44	1322.7	LB	2.7	40	20	80	0	0	N	N	N	Conifer	5	
84	R44	1325.5	LB	4.7+	15+	5	45	50	0	N	N	N	Alder	3	Little salmonids
84	R44	1328.9	RB	6.5	20	90	10	0	0	N	N	N	Alder	3	
84	R44	1328.9	RB	3.2+	~40	10	90	0	0	N	N	N	Decid.	5	Embedded
85	P42	1346.1	cross	2.8	39	95	5	0	0	N	N	N	Decid.	4	Embedded
86	R45	1349	RB	6+	16	20	60	20	0	N	N	N	Alder	3	
88	P43	1361.3	cross	7.9	21	5	95	0	0	N	N	N	Alder	3	Lots of little fish~ 1.25"
88	P43	1362.3	RB	2.7	13	0	60	40	0	N	N	N	Alder	3	
88	P43	1363.6	center	2.5+	~26	90	10	0	0	N	N	N	Alder	3	
88	P43	1366.9	center	7.5	18	5	75	20	0	N	N	N	Alder	1	Beaver chew
88	P43	1370.6	RB	7.8	23	0	100	0	0	N	N	N	Alder	3	
88	P43	1370.6	RB	4.3	15	0	100	0	0	N	N	N	Alder	3	
89	P44	1373.2	LB	2+	45	100	0	0	0	N	N	N	Conifer	5	
89	P44	1373.2	LB	2+	~45	40	60	0	0	N	N	N	Conifer	5	Embedded

						Zone %								Decay	
NSO	Hab ID	STA	Bank	Length	Dia	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Class	Comments
89	P44	1373.2	LB	6.5	20	10	10	10	70	N	N	N	Alder	3	
89	P44	1373.2	LB	5	11	5	85	10	0	N	N	N	Alder	3	
91	P45	1391.2	LB	3	22	100	0	0	0	N	N	N	Alder	3	
91	P45	1395.2	cross	~12+	31	40	60	0	0	N	N	N	Alder	3	End in blackberries
91	P45	1398.1	cross	~10	33	10	70	20	0	N	N	N	Willow	1	Pacific willow
91	P45	1403.3	LB	6.4	16	5	80	15	0	N	N	N	Alder	3	
93	P46	1411.6	RB	2+	35	5	10	85	0	N	N	N	Alder	3	
93	P46	1413.3	CROSS	5.7	18	5	90	5	0	N	N	N	Alder	3	
93	P46	1413.3	RB	2+	18	30	40	30	0	N	N	N	Alder	3	
93	P46	1414	RB	3+	12	20	70	10	0	N	N	N	Alder	3	
94	P49	1417	center	5.2	60	0	100	0	0	N	N	N	Alder	3	Part of jam
94	P49	1417	LB	7	~25	80	20	0	0	N	Y	N	?	4	"
94	P49	1419.4	center	5.8	25	0	100	0	0	N	N	N	Alder	3	"
94	P49	1421	center	~4	32	40	50	10	0	N	N	N	Alder	4	"
94	R49	1421.9	cross	~5	14	95	5	0	0	N	N	N	Alder	3	"
95	R50	1470.8	center	2.6	16	0	100	0	0	N	N	N	Decid.	4	
95	R50	1771.1	center	7	20	40	60	0	0	N	N	N	Decid.	4	
95	R50	1488.2	LB	~7	25	10	10	80	0	N	N	N	Decid.	3	
96	R51	1507.9	LB	4+	13	40	60	0	0	N	N	N	Alder	3	
97	R52	1542.6	center	2.4	15	60	40	0	0	N	N	N	Decid.	4	
100	R55	1580.1	LB	5.1	22	50	50	0	0	N	N	N	Alder	3	4 spawning Lampreys digging a nest
103	R58	1642	RB	4.4	18	10	70	20	0	N	N	N	Alder	3	LB rip/rap 1651.7 - 1666.7
				166.3	1159										

Stream: Little Bear Creek **Reach: 3. Wood.**
Date: 7/19/01
Crew: Scott & Amy

						Zone %									
NSO	Hab ID	Station	Bank	Length (m)	Dia (cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
1	R1	0	middle	3.38	12	2	48	50	0	N	N	N	Alder	2	Jammed up against culvert
1	R1	0	middle	3.45	16	50	50	0	0	N	N	N	Alder	2	Jammed up against culvert
2	P1	5.5	RB	8.48	22	5	30	65	0	N	N	N	Alder	2	
2	P1	6.1	center	2.84	17	100	0	0	0	N	N	N	Alder	2	Embedded
2	P1	7.6	LB	9.3	17	0	15	20	65	N	N	N	Alder	2	Attached rootwad
2	P1	7.6	LB	13.64	26	2	38	20	40	N	N	N	Alder	2	Attached rootwad
2	P1	8.5	LB	2.92	19	100	0	0	0	N	N	N	Alder	3	Attached rootwad
3	R2	21.3	LB	1.9	17	0	100	0	0	N	N	N	Decid.	5	
3	R2	22.3	LB	2.2	16	80	20	0	0	N	N	N	Alder	3	
3	R2	23.8	RB	7.6	21	40	60	0	0	N	N	N	Alder	3	
3	R2	27.4	RB	4	20	10	80	10	0	N	N	N	Alder	1	Recently fell into stream
3	R2	34.4	LB	1.8	18	5	95	0	0	N	N	N	Alder	4	
3	R2	36.3	LB	6.1	19	0	100	0	0	N	N	N	Alder	2	
4	R3	53	RB	4.5	13	5	92	0	0	N	N	N	Alder	3	
4	R3	61.6	LB	3.8	18	80	20	0	0	N	N	N	Alder	3	
5	R4	67.7	middle	2.8	13	20	80	0	0	N	N	N	Decid.	4	Embedded
6	R5	85.5	center	5	20	90	10	0	0	N	N	N	Alder	3	Rootwad
6	R5	89.6	center	3.5	17	10	90	0	0	N	N	N	Alder	3	Rootwad
6	R5	95.4	LB	~3.7	13	5	20	75	0	N	N	N	Alder	2	
7	R6	100.3	RB	~15.2	~25	5	15	30	50	N	N	N	Alder	3	
7	R6	104.5	RB	7.6	26	50	50	0	0	N	N	N	Alder	3	
7	R6	121	LB	~5.2	16	5	20	50	25	N	N	N	Alder	2	
12	R9	194.4	cross	~6.1	28	0	5	65	30	N	N	N	Decid.	5	
12	R9	194.4	RB	4.5	30	0	100	0	0	N	N	N	Alder	3	
13	P4	210.3	RB	6.1	27	20	75	5	0	N	N	N	Decid.	4	
16	R11	252.1	LB	1.8	~75	75	25	0	0	N	N	N	Cedar	5	chunk of cedar stump
				107.21	461										

Stream:Little Bear Creek
Date:7/20/01

Reach: 3. Wood.
Crew:Scott & Amy

					Zone %										
NSO	Hab ID	STA	Bank	Length (m)	Dia. (cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
26	R16	349.3	cross	4.1	18	50	50	0	0	N	N	N	Alder	2	
26	R16	357.5	LB	4.7	20	40	60	0	0	N	N	N	Alder	2	
30	R19	383.4	RB	10.1	38	30	70	0	0	N	Y	N	Alder	3	Giant rootwad
30	R19	383.4	RB	9.0	32	0	20	70	10	N	Y	N	Alder	3	
31	P16	388.9	LB	7.6	33	20	60	20	0	N	Y	N	Alder	2	Giant rootwad
31	P16	390.8	LB	4.1	14	100	0	0	0	N	N	N	Alder	3	
31	P16	400.5	LB	8.3	25	20	80	0	0	N	Y	N	Alder	3	
31	P16	400.5	center	2.1	150	10	70	20	0	N	Y	N	Cedar	3	Giant cedar stump
32	P17	400.5	LB	3.6	33	80	20	0	0	N	Y	N	Alder	2	
32	P17	400.5	LB	4.8	24	10	90	0	0	N	Y	N	Alder	2	
32	P17	400.5	LB	7.2	22	0	100	0	0	N	N	N	Alder	3	
32	P17	400.5	LB	2.4	15	10	60	30	0	N	N	N	Decid.	4	
32	P17	400.5	LB	3.7	16	70	30	0	0	N	N	N	Decid.	4	
32	P17	400.5	RB	1.8	24	90	10	0	0	N	Y	N	Decid.	4	
32	P17	400.5	RB	4.6	14	5	75	20	0	N	N	N	Alder	3	
32	P17	400.5	RB	2.4	16	20	70	10	0	N	N	N	Alder	3	
32	P17	407.8	center	4.4	22	95	5	0	0	N	N	N	?	4	
32	P17	411.5	LB	4.5	14	100	0	0	0	N	N	N	Alder	3	
33	R20	413.3	RB	3.0	33	60	40	0	0	N	Y	N	Alder	4	
33	R20	413.3	RB	1.8	50	95	5	0	0	N	Y	N	Alder	5	
34	P18	424.3	cross	6.7	29	50	40	10	0	N	Y	N	Alder	1	
34	P18	424.3	cross	7.6	26	15	35	50	0	N	Y	N	Alder	2	
35	R21	429.8	LB	1.8	19	20	20	60	0	N	N	N	Alder	2	
35	R21	429.8	LB	2.1	24	10	30	60	0	N	N	N	Alder	2	
37	P19	459.6	LB	3.4	22	40	60	0	0	N	N	N	Decid.	4	
37	P19	459.6	LB	3.0	26	50	50	0	0	N	N	N	Decid.	4	
37	P19	463.9	center	4.7	16	100	10	0	0	N	N	N	Decid.	4	
37	P19	463.9	RB	5.5	25	20	30	50	0	N	N	N	Alder	3	
37	P19	463.9	RB	~3.7	~20	100	0	0	0	N	N	N	?	4	

					Zone %										
NSO	Hab ID	STA	Bank	Length (m)	Dia. (cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
37	P19	466	RB	~4.2	130	20	40	40	0	N	N	N	Conifer	4	Giant stump.
38	R23	500.8	LB	~4.6	19	40	60	0	0	N	N	N	Decid.	5	
38	R23	502.9	LB	2.6	15	5	25	70	0	N	N	N	Decid.	4	
38	R23	504.4	LB	2.8	45	40	60	0	0	N	N	N	Conifer	5	
38	R23	527.9	RB	2.4	29	50	50	0	0	N	N	N	Alder	3	
38	R23	542.8	LB	2.6	27	5	95	0	0	N	N	N	Alder	4	
38	R23	544.1	LB	3.0	17	60	40	0	0	N	N	N	Alder	3	
39	P20	545	LB	3.0	20	50	50	0	0	N	N	N	Decid.	3	
39	P20	546.5	LB	2.0	14	70	30	0	0	N	N	N	Decid.	2	
39	P20	549.6	RB	~4.6	12	5	95	0	0	N	N	N	Decid.	3	
39	P20	551.7	LB	~3.0	25	5	70	25	0	N	N	N	Decid.	4	
42	R26	584.6	LB	1.8	~80	40	60	0	0	N	N	N	Cedar	5	
42	R26	591	LB	3.1	31	70	30	0	0	N	N	N	Alder	2	
43	P21	598.6	RL	4.6	15	60	40	0	0	N	y	N	Willow	3	Rootwad attached plus
44	R27	604.4	LB	2.8	22	40	50	10	0	N	N	N	Decid.	4	
45	P22	604.4	center	3.0	25	20	40	40	0	N	N	N	Alder	2	
45	P22	625.1	center	~7.6	25	50	20	20	0	N	Y	N	Conifer	4	Jam, LWD from here down.
45	P22	630.6	center	~4.6	15	80	20	0	0	N	Y	N	Alder	2	
45	P22	630.6	center	~6.1	22	30	30	40	0	N	Y	N	Alder	3	
45	P22	630.6	center	~6.1	18	25	75	0	0	N	Y	N	Alder	2	
45	P22	630.6	center	~4.6	22	20	40	40	0	N	Y	N	Alder	2	Snags
45	P22	630.6	center	~4.6	17	20	40	40	0	N	Y	N	Alder	3	Snags
45	P22	630.6	center	~9.1	20	20	30	25	25	N	Y	N	Alder	3	Snags
45	P22	630.6	center	~6.1	15	25	25	25	25	N	Y	N	Alder	3	Snags
45	P22	630.6	center	~10.7	32	40	60	0	0	N	Y	N	Alder	2	
45	P23	630.6	center	~7.6	16	20	10	10	0	N	Y	N	Alder	2	
45	P24	630.6	center	~6.1	21	0	10	90	0	N	Y	N	Alder	2	
45	P25	630.6	center	~6.1	26	0	100	0	0	N	Y	N	Alder	3	
				162.7	1495										

Stream: Little Bear Creek
Date: 7/31/01

Reach: 3. Wood.
Crew:

					Zone %										
NSO	Hab ID	STA	Bank	Length (m)	Dia (cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
49	P24	694.3	LB	2.9	21	50	50	0	0	N	N	N	Alder	3	
49	P24	694.3	RB	6.3	15	5	30	65	0	N	N	N	Decid.	1	
49	P24	694.3	RB	5.8	28	50	25	25	0	N	N	N	Alder	2	
49	P24	694.3	cross	15.5	100	30	40	10	20	N	Y	N	FIR	2	Doug-fir
49	P24	694.3	RB	3.4	~30	50	40	10	0	N	N	N	?	2	
49	P24	694.3	RB	4.6	32	50	50	0	0	N	N	N	Cedar	2	
51	R31	706.8	RB	5.2	16	75	25	0	0	N	N	N	Alder	2	
54	R33	766.6	cross	~10.7	37	5	70	20	5	N	N	N	Cedar	1	
54	R33	768.1	cross	~6.1	20	5	70	20	5	N	N	N	Cedar	1	
54	R33	768.4	cross	~12.2	42	5	70	20	5	N	N	N	Cedar	1	
54	R33	780.3	LB	2.3	35	100	0	0	0	N	N	N	Cedar	4	
57	P27	806.8	center	7.3	40	20	80	0	0	N	Y	N	Alder	3	
57	P27	806.8	RB	4.0	30	30	70	0	0	N	N	N	Alder	3	
58	R35	811.1	LB	4.7	27	10	80	10	0	N	N	N	Alder	3	
58	R35	811.1	LB	1.7	24	40	60	0	0	N	N	N	Cherry?	3	
58	R35	811.1	LB	2.4	120	90	10	0	0	N	N	N	Cedar	5	Chunk of stump
59	R36	816.9	LB	10.9	35	0	100	0	0	N	N	N	Alder	2	
60	P28	827.5	LB	3.8	26	95	5	0	0	N	N	N	Alder	3	
60	P28	839.4	center	1.8+	34	99	1	0	0	N	N	N	Decid.	4	Embedded, raccoon tracks.
60	P28	839.4	center	1.8+	26	99	1	0	0	N	N	N	Decid.	4	Embedded, pileated woodpecker
60	P28	847.6	cross	5.8	25	60	40	0	0	N	Y	N	Alder?	4	
60	P28	847.6	cross	5.1	36	75	25	0	0	N	Y	N	Alder?	4	
64	R39	877.5	RB	6.4	21	80	20	0	0	N	N	N	Alder	2	
64	R39	892.8	RB	3.6	35	0	40	60	0	N	N	N	Alder	4	
64	R39	891.5	RB	4.8	17	5	95	0	0	N	N	N	Alder	2	
65	R40	905	RB	4.7	29	10	80	10	0	N	N	N	Alder	2	
65	R40	909.5	LB	4.7	28	10	90	0	0	N	N	N	Alder	3	
67	P30	915.9	LB	4.6	90	20	80	0	0	N	N	N	Cedar	5	
67	P30	919.6	cross	6.1	22	0	60	20	20	N	N	N	Cherry	1	House LB
67	P30	920.5	cross	6.1	28	0	60	20	20	N	N	N	Cherry	1	
67	P30	922.3	cross	6.1	22	5	20	75	0	N	N	N	Cherry	1	
				138.7											

Stream: Little Bear Creek
Date: 8/01/01

Reach: 3. Wood.
Crew: Scott & Dan

					Zone %										
NSO	Hab ID	STA	Bank	Length (m)	Dia (cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
71	R44	1008	RB	3.4	30	40	60	0	0	N	N	N	Alder	3	
72	P32	1015	LB	6.8	28	50	50	0	0	N	N	N	Alder	4	
75	P34	1054	cross	12.2	37	30	20	25	25	N	Y	N	Cedar	3	
75	P34	1055	cross	4.8	19	90	10	0	0	N	Y	N	Decid.	4	
75	P34	1054	cross	10.7+	32	25	25	25	25	N	Y	N	Cedar	3	
75	P34	1053	LB	2.4	40	10	90	0	0	N	N	N	Cedar	3	Broken, large alive cedar, not counted.
75	P34	1054	LB	2.4	30	5	95	0	0	N	N	N	Alder	3	Broken, see photo 8
76	P35	1059	center	6.6	20	5	80	15	0	N	N	N	Cedar	2	
76	P35	1142	LB	5.5	25	10	90	0	0	N	N	N	Cedar	3	
77	R47	1061	LB	5.5	42	15	85	0	0	N	N	N	Alder	2	
77	R47	1061	LB	4.7	15	40	60	0	0	N	N	N	Cedar	3	
78	P35	1076	cross	12.2+	50	10	30	30	30	N	Y	N	BLM	1	Giant big-leaf maple
80	P36	1109	RB	6.8	30	15	85	0	0	N	?Y	N	Cedar	3	
80	P36	1109	RB	7.0	25	10	90	0	0	N	?Y	N	Cedar	3	
82	P37	1125	cross	7.0	60	5	45	50	0	N	N	N	Alder	2	Old, big, rotten.
83	R50	1140	cross	7.6	29	5	55	40	0	N	N	N	Alder	3	
84	R51	1167	cross	6.1	20	10	90	0	0	N	N	N	Cedar	3	
84	R51	1167	LB+	4.6+	20	100	0	0	0	N	N	N	Cedar	3	
84	R51	1170	cross	5.5	19	5	95	0	0	N	N	N	Cedar	4	
84	R51	1170	LB+	1.8+	21	60	40	0	0	N	N	N	Cedar	4	
84	R51	1170	LB+	2.9	24	15	85	0	0	N	N	N	Cedar	4	
84	R51	1170	RB	3.7	30	5	95	0	0	N	N	N	Cedar	4	
84	R52	1181	RB	2.1	60	10	90	0	0	N	N	N	Cedar	5	
85	R52	1185	RB	4.9	18	40	60	0	0	N	N	N	Cedar	4	
86	P38	1187	LB	9.0	25	5	95	0	0	N	N	N	Cedar	1	
86	P38	1199	LB	2.1+	19	25	75	0	0	N	N	N	Decid.	4	
87	R53	1202	RB	6.7	20	5	45	30	20	N	N	N	Cedar	4	
87	R53	1202	RB	10.7+	40	0	5	45	50	N	N	N	Cedar	3	
87	R53	1204	LB	4.0	32	5	90	5	0	N	N	N	Fir	3	Doug-fir, broken.

					Zone %										
NSO	Hab ID	STA	Bank	Length (m)	Dia (cm)	Z1	Z2	Z3	Z4	Origin	Pool	MM	Species	Decay Class	Comments
87	R53	1205	LB	3.4	22	0	100	0	0	N	N	N	Decid.	4	
87	R54	1216	cross	12.2+	22	5	25	25	45	N	Y	N	Spruce	1	Pocket pool.
87	R54	1223	cross	6.1	29	50	50	0	0	N	Y	N	Cedar	4	
87	R54	1223	RB	3.0	35	0	100	0	0	N	N	N	Fir		
91	R57	1279	LB	5.2	22	10	90	0	0	N	N	N	Cedar	4	
92	R58	1288	center	4.2	32	0	95	5	0	N	N	N	BLM	4	
92	R58	1291	RB	4.9	35	10	65	10	15	N	N	N	Alder	1	
93	R59	1306	RB	2.1	35	40	60	0	0	N	N	N	Conifer	5	
94	P39	1310	RB	3.7	25	0	100	0	0	N	N	N	Alder	2	
				160.3	1117										