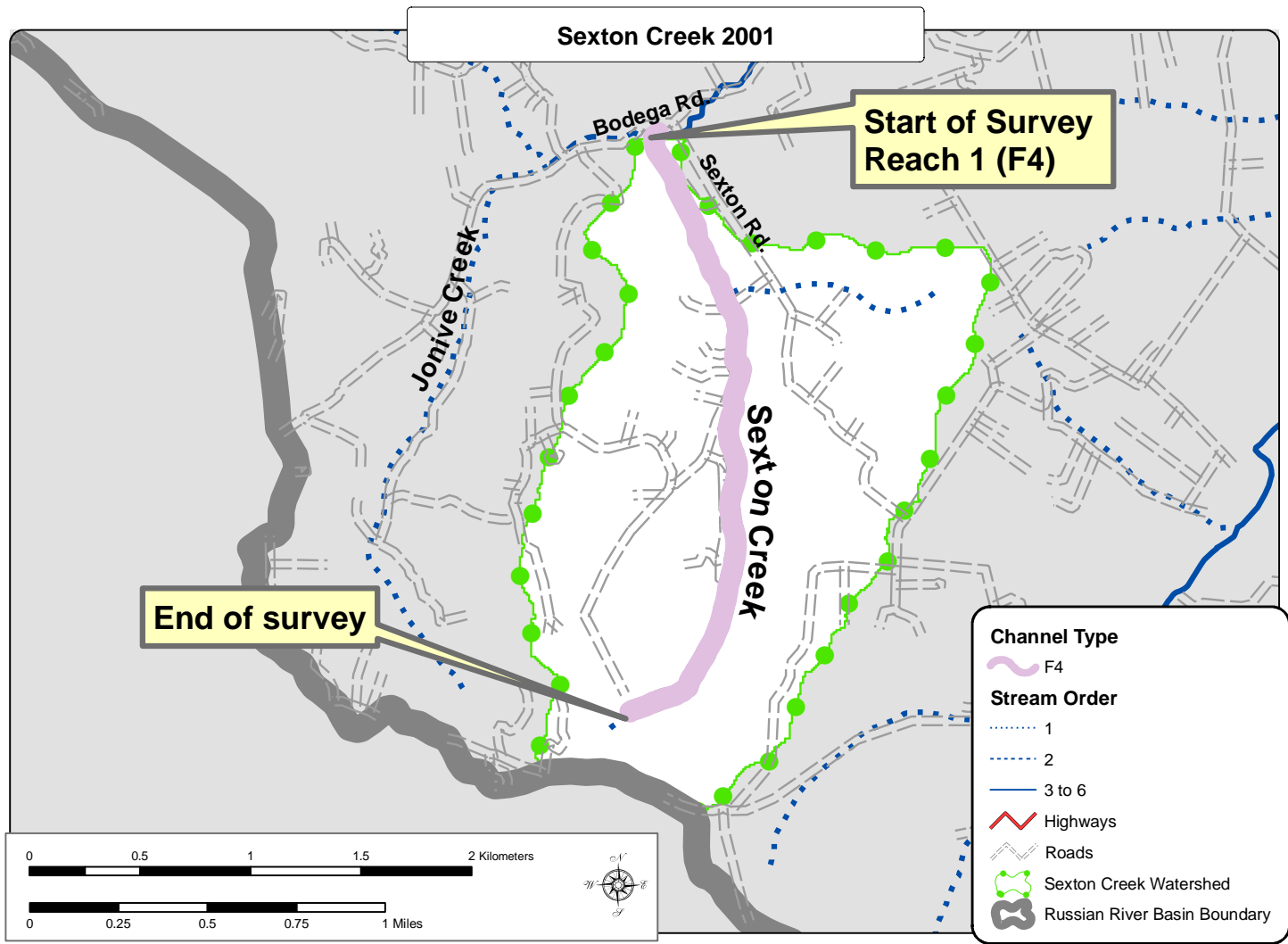


APPENDIX A: MAP



L:\mondo3\data\stream-maps\SextonCreek2001.mxd

Prepared by: Celeste Dodge and Colin Brooks, April 7, 2005

## APPENDIX B: TABLES

**Table 1 - Summary of Riffle, Flatwater, and Pool Habitat Types**

Stream Name: Sexton Creek

LLID:

1228792383911

Drainage:

Russian River - Lower

Survey Dates: 7/23/2001 to 7/24/2001

Confluence Location:

Quad: CAMP MEEKER

Legal Description: T000R000S00

Latitude: 38:23:28.0N

Longitude: 122:52:45.0W

Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Mean Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating
3	1	CULVERT	5.8	30	91	1.0	10.0	0.2	0.5	380	1140	76	228		
1	0	DRY	1.9	14	14	0.1									
28	7	FLATWATER	53.8	208	5827	62.2	6.4	0.7	1.3	593	16598	353	9876		13
2	0	NOSURVEY	3.8	1198	2395	25.6									
14	14	POOL	26.9	21	299	3.2	10.2	1.4	2.3	221	3090	292	3794	272	33
4	2	RIFFLE	7.7	186	743	7.9	4.0	0.2	0.8	338	1352	68	270		
<b>Total Units</b>	<b>Total Units Fully Measured</b>				<b>Total Length (ft.)</b>					<b>Total Area (sq.ft.)</b>			<b>Total Volume (cu.ft.)</b>		
52	24				9369					22180			14168		

**Table 2 - Summary of Habitat Types and Measured Parameters**

Stream Name: Sexton Creek

LLID:

1228792383911

Drainage: Russian River - Lower

Survey Dates: 7/23/2001 to 7/24/2001

Confluence Location:

Quad: CAMP MEEKER

Legal Description: T000R000S00

Latitude: 38:23:28.0N

Longitude: 122:52:45.0W

Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Depth (ft.)	Max Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Volume (cu.ft.)	Estimated Total Volume (cu.ft.)	Mean Residual Pool Vol (cu.ft.)	Mean Shelter Rating	Mean Canopy (%)
3	1	LGR	5.8	235	705	7.5	4	0.2	0.5	600	1800	120	360			95
1	1	BRS	1.9	38	38	0.4	4	0.2	1	76	76	15	15			90
1	0	POW	1.9	297	297	3.2										
5	3	GLD	9.6	44	222	2.4	9	1.1	2	399	1993	437	2184		20	89
22	4	RUN	42.3	241	5308	56.7	4	0.4	1.2	739	16247	290	6374		7	95
9	9	MCP	17.3	19	175	1.9	11	1.4	3.4	219	1971	272	2178	254	21	96
2	2	CRP	3.8	28	55	0.6	10	1.5	2.4	255	510	393	786	368	33	100
1	1	LSR	1.9	20	20	0.2	13	1.3	2.6	260	260	364	364	338	150	90
2	2	PLP	3.8	24	49	0.5	7	1.1	2.8	175	350	233	466	215	5	90
1	0	DRY	1.9	14	14	0.1										
3	1	CUL	5.8	30	91	1.0	10	0.2	0.5	380	1140	76	228			100
2	0	NS	3.8	1198	2395	25.6										

Total Units  
52

Total Units Fully Measured  
24

Total Length (ft.)  
9369

Total Area (sq.ft.)  
24346

Total Volume (cu.ft.)  
12954

**Table 3 - Summary of Pool Types**

Stream Name: Sexton Creek  
 LLID: 1228792383911  
 Drainage: Russian River - Lower  
 Survey Dates: 7/23/2001 to 7/24/2001  
 Confluence Location: Quad: CAMP MEEKER Legal Description: T000R000S00 Latitude: 38:23:28.0N Longitude: 122:52:45.0W

Habitat Units	Units Fully Measured	Habitat Type	Habitat Occurrence (%)	Mean Length (ft.)	Total Length (ft.)	Total Length (%)	Mean Width (ft.)	Mean Residual Depth (ft.)	Mean Area (sq.ft.)	Estimated Total Area (sq.ft.)	Mean Residual Pool Vol (cu.ft.)	Estimated Total Resid.Vol. (cu.ft.)	Mean Shelter Rating
9	9	MAIN	64	19	175	59	10.7	1.4	219	1971	254	2031	21
5	5	SCOUR	36	25	124	41	9.3	1.3	224	1120	301	1504	55
<b>Total Units</b>	<b>Total Units Fully Measured</b>				<b>Total Length (ft.)</b>					<b>Total Area (sq.ft.)</b>		<b>Total Volume (cu.ft.)</b>	
14	14				299					3090		3535	

**Table 4 - Summary of Maximum Residual Pool Depths By Pool Habitat Types**

Stream Name: Sexton Creek

LLID:

1228792383911

Drainage: Russian River - Lower

Survey Dates: 7/23/2001 to 7/24/2001

Confluence Location:

Quad: CAMP MEEKER

Legal Description:

T000R000S00

Latitude: 38:23:28.0N

Longitude: 122:52:45.0W

Habitat Units	Habitat Type	Habitat Occurrence (%)	< 1 Foot Maximum Residual Depth	< 1 Foot Percent Occurrence	1 < 2 Feet Maximum Residual Depth	1 < 2 Feet Percent Occurrence	2 < 3 Feet Maximum Residual Depth	2 < 3 Feet Percent Occurrence	3 < 4 Feet Maximum Residual Depth	3 < 4 Feet Percent Occurrence	>= 4 Feet Maximum Residual Depth	>= 4 Feet Percent Occurrence
8	MCP	62	0	0	3	38	4	50	1	13	0	0
2	CRP	15	0	0	0	0	2	100	0	0	0	0
1	LSR	8	0	0	0	0	1	100	0	0	0	0
2	PLP	15	0	0	0	0	2	100	0	0	0	0

Total Units

13	Total < 1 Foot Max Resid. Depth	0	Total < 1 Foot % Occurrence	0	Total 1 < 2 Foot Max Resid. Depth	3	Total 1 < 2 Foot % Occurrence	23	Total 2 < 3 Foot Max Resid. Depth	9	Total 2 < 3 Foot % Occurrence	69	Total 3 < 4 Foot Max Resid. Depth	1	Total 3 < 4 Foot % Occurrence	8	Total >= 4 Foot Max Resid. Depth	0	Total >= 4 Foot % Occurrence	0
----	---------------------------------	---	-----------------------------	---	-----------------------------------	---	-------------------------------	----	-----------------------------------	---	-------------------------------	----	-----------------------------------	---	-------------------------------	---	----------------------------------	---	------------------------------	---

Mean Maximum Residual Pool Depth (ft.):

2.3

**Table 5 - Summary of Mean Percent Cover By Habitat Type**

Stream Name: Sexton Creek  
 LLID: 1228792383911  
 Drainage: Russian River - Lower  
 Survey Dates: 7/23/2001 to 7/24/2001  
 Dry Units: 1  
 Confluence Location: Quad: CAMP MEEKER  
 Legal Description: T000R000S00  
 Latitude: 38:23:28.0N  
 Longitude: 122:52:45.0W

Habitat Units	Units Fully Measured	Habitat Type	Mean % Undercut Banks	Mean % SWD	Mean % LWD	Mean % Root Mass	Mean % Terr. Vegetation	Mean % Aquatic Vegetation	Mean % White Water	Mean % Boulders	Mean % Bedrock Ledges
3	0	LGR									
1	0	BRS									
4	0	TOTAL RIFFLE									
1	0	POW									
5	3	GLD	87	0	0	0	13	0	0	0	0
22	3	RUN	50	0	0	0	17	0	0	0	33
28	6	TOTAL FLAT	68	0	0	0	15	0	0	0	17
9	7	MCP	43	4	12	0	2	0	4	4	32
2	2	CRP	25	0	0	13	38	0	0	25	0
1	1	LSR	25	0	75	0	0	0	0	0	0
2	1	PLP	100	0	0	0	0	0	0	0	0
14	11	TOTAL POOL	43	2	15	2	8	0	2	7	20
3	0	CUL									
2	0	NS									
52	17	TOTAL	52	1	9	1	11	0	1	4	19

**Table 6 - Summary of Dominant Substrates By Habitat Type**

Stream Name: Sexton Creek

LLID:

1228792383911

Drainage: Russian River - Lower

Survey Dates: 7/23/2001 to 7/24/2001

Dry Units: 1

Confluence Location: Quad: CAMP MEEKER

Legal Description: T000R000S00

Latitude: 38:23:28.0N

Longitude: 122:52:45.0W

Habitat Units	Units Fully Measured	Habitat Type	% Total Silt/Clay Dominant	% Total Sand Dominant	% Total Gravel Dominant	% Total Small Cobble Dominant	% Total Large Cobble Dominant	% Total Boulder Dominant	% Total Bedrock Dominant
3	1	LGR	0	0	0	0	100	0	0
1	1	BRS	0	0	0	0	0	0	100
1	0	POW	0	0	0	0	0	0	0
5	3	GLD	100	0	0	0	0	0	0
22	4	RUN	0	0	25	50	0	0	25
9	1	MCP	0	100	0	0	0	0	0
2	1	CRP	0	100	0	0	0	0	0
1	1	LSR	0	100	0	0	0	0	0
2	1	PLP	100	0	0	0	0	0	0

**Table 7 - Summary of Mean Percent Canopy for Entire Stream**

Stream Name: Sexton Creek  
 LLID: 1228792383911  
 Drainage: Russian River - Lower  
 Survey Dates: 7/23/2001 to 7/24/2001  
 Confluence Location: Quad: CAMP MEEKER  
 Legal Description: T000R000S00  
 Latitude: 38:23:28.0N  
 Longitude: 122:52:45.0W

Mean Percent Canopy	Mean Percent Conifer	Mean Percent Hardwood	Mean Percent Open Units	Mean Right Bank % Cover	Mean Left Bank % Cover
94	49	51	0	55	57

Note: Mean percent conifer and hardwood for the entire reach are means of canopy components from units with canopy values greater than zero.

Open units represent habitat units with zero canopy cover.

**Table 9 - Mean Percentage of Dominant Substrate and Vegetation**

Stream Name: Sexton Creek LLID: 1228792383911 Drainage: Russian River - Lower  
 Survey Dates: 7/23/2001 to 7/24/2001  
 Confluence Location: Quad: CAMP MEEKER Legal Description: T000R000S00 Latitude: 38:23:28.0N Longitude: 122:52:45.0W

**Mean Percentage of Dominant Stream Bank Substrate**

Dominant Class of Substrate	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percent (%)
Bedrock	3	3	21.4
Boulder	0	0	0.0
Cobble / Gravel	0	0	0.0
Sand / Silt / Clay	11	11	78.6

**Mean Percentage of Dominant Stream Bank Vegetation**

Dominant Class of Vegetation	Number of Units Right Bank	Number of Units Left Bank	Total Mean Percent (%)
Grass	0	1	3.6
Brush	4	3	25.0
Hardwood Trees	4	4	28.6
Coniferous Trees	5	5	35.7
No Vegetation	1	1	7.1

**Total Stream Cobble Embeddedness Values:** 1

**Table 10 - Mean Percent of Shelter Cover Types For Entire Stream**

StreamName: Sexton Creek LLID: 1228792383911 Drainage: Russian River - Lower  
 Survey Dates: 7/23/2001 to 7/24/2001  
 Confluence Location: Quad: CAMP MEEKER Legal Description: T000R000S00 Latitude: 38:23:28.0N Longitude: 122:52:45.0W

	Riffles	Flatwater	Pools
UNDERCUT BANKS (%)		68	43
SMALL WOODY DEBRIS (%)		0	2
LARGE WOODY DEBRIS (%)		0	15
ROOT MASS (%)		0	2
TERRESTRIAL VEGETATION (%)		15	8
AQUATIC VEGETATION (%)		0	0
WHITEWATER (%)		0	2
BOULDERS (%)		0	7
BEDROCK LEDGES (%)		17	20

### Appendix C - Fish Habitat Inventory Data Summary

Stream Name: Sexton Creek LLID: 1228792383911 Drainage: Russian River - Lower

Survey Dates: 7/23/2001 to 7/24/2001 Survey Length (ft.): 9369 Main Channel (ft.): 9369 Side Channel (ft.): 0

Confluence Location: Quad: CAMP MEEKER Legal Description: T000R000S00 Latitude: 38:23:28.0N Longitude: 122:52:45.0W

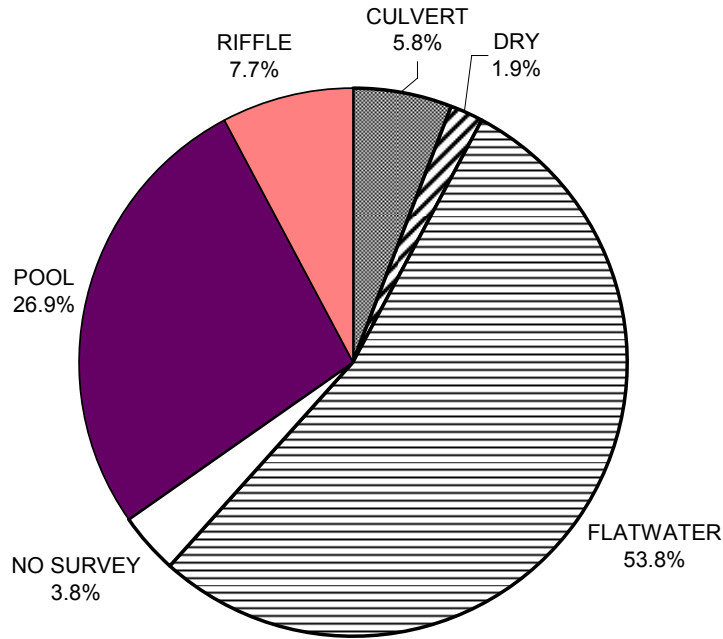
#### Summary of Fish Habitat Elements By Stream Reach

**STREAM REACH: 1**

Channel Type:	F4	Canopy Density (%):	94.0	Pools by Stream Length (%):	3.2
Reach Length (ft.):	9369	Coniferous Component (%):	49.2	Pool Frequency (%):	26.9
Riffle/Flatwater Mean Width	5.8	Hardwood Component (%):	50.8	Residual Pool Depth (%):	
BFW:		Dominant Bank Vegetation:	Coniferous Trees	< 2 Feet Deep:	23
Range (ft.):	to	Vegetative Cover (%):	55.7	2 to 2.9 Feet Deep:	69
Mean (ft.):		Dominant Shelter:	Undercut Banks	3 to 3.9 Feet Deep:	8
Std. Dev.:		Dominant Bank Substrate Type:	Sand/Silt/Clay	>= 4 Feet Deep:	0
Base Flow (cfs.):	0.0	Occurrence of LWD (%):	9	Mean Max Residual Pool Depth (ft.):	2.3
Water (F):	55 - 59	Air (F):	60 - 73	LWD per 100 ft.:	Mean Pool Shelter Rating: 33
Dry Channel (ft):	14	Riffles:			
		Pools:			
		Flat:			
Pool Tail Substrate (%):	Silt/Clay	Sand:	Gravel:	Sm Cobble:	Lg Cobble:
		Boulder:	Bedrock:		
Embeddedness Values (%):	1.				
		66.7	2.	25.0	3.
			0.0	4.	8.3
				5.	0.0

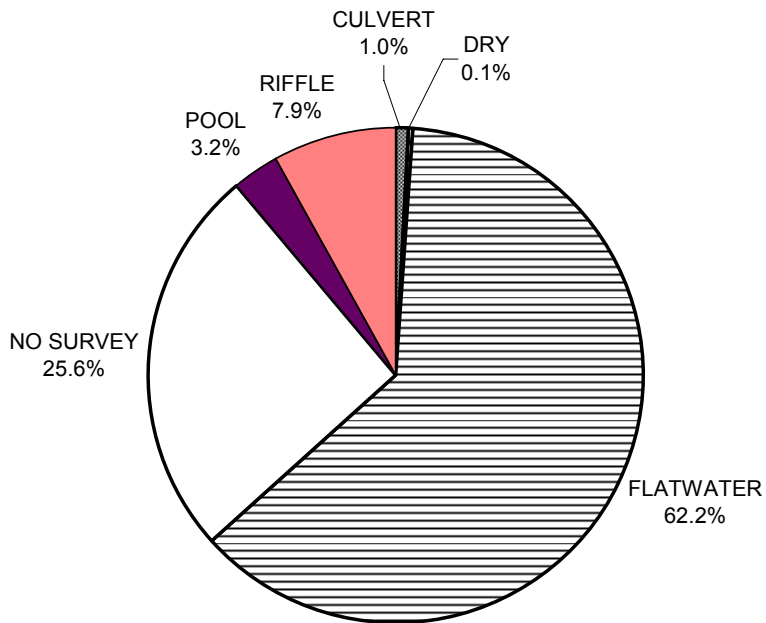
APPENDIX D: GRAPHS

**Sexton Creek 2001  
HABITAT TYPES BY PERCENT OCCURRENCE**



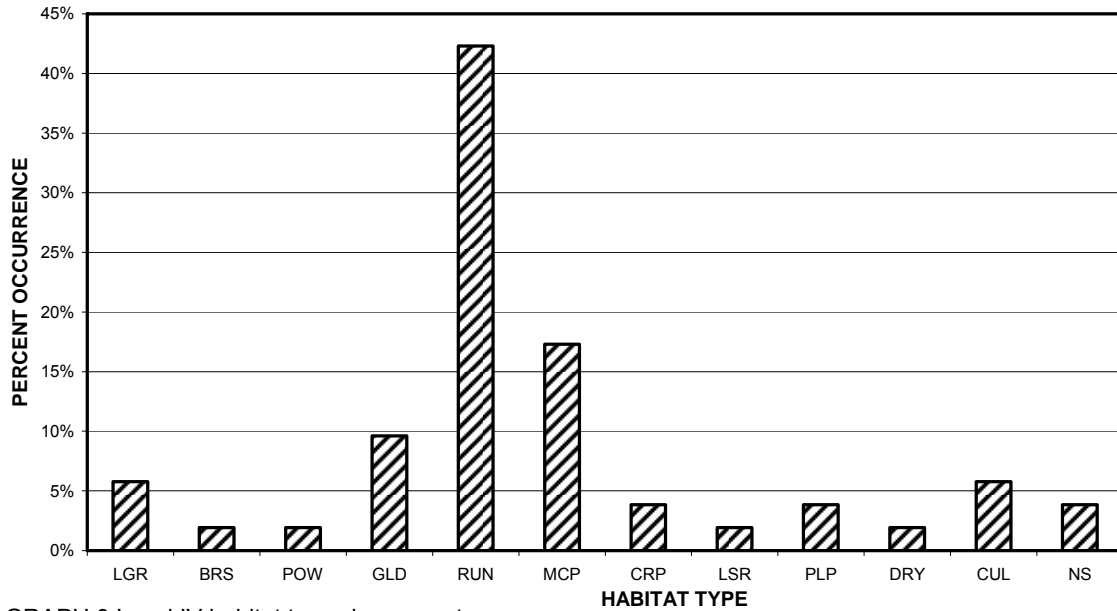
GRAPH 1 Level II habitat types by percent occurrence

**Sexton Creek 2001  
HABITAT TYPES BY PERCENT TOTAL LENGTH**



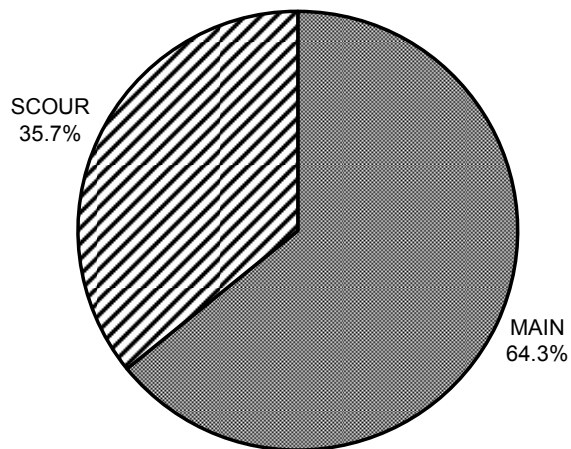
GRAPH 2 Level II habitat types by percent total length

**Sexton Creek 2001  
HABITAT TYPES BY PERCENT OCCURRENCE**



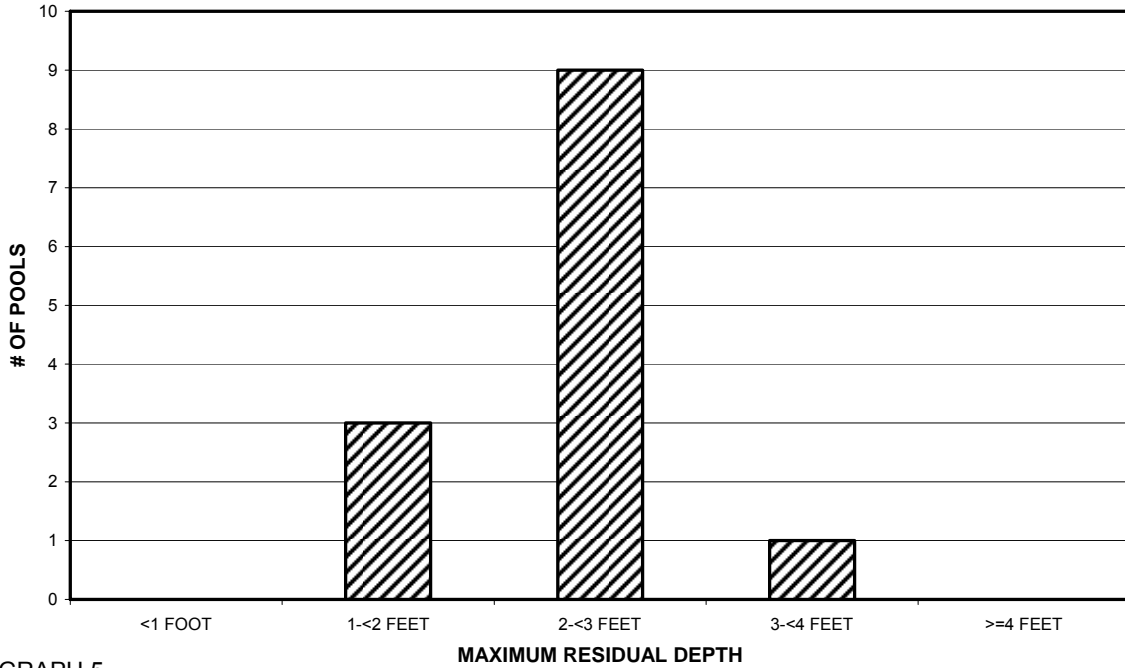
GRAPH 3 Level IV habitat types by percent occurrence

**Sexton Creek 2001  
POOL TYPES BY PERCENT OCCURRENCE**



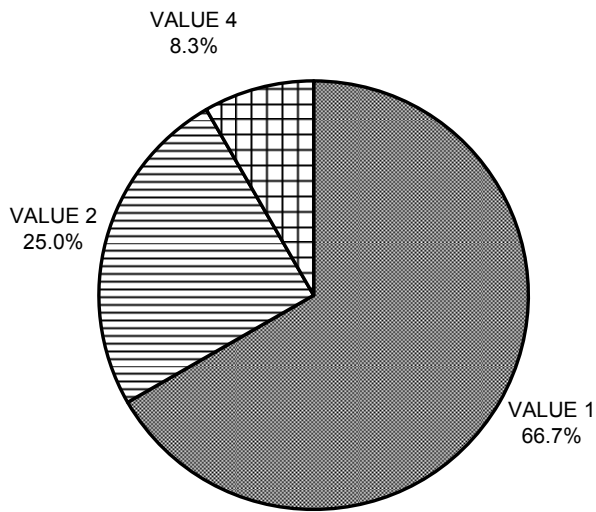
GRAPH 4 Level I pool types by percent occurrence

**Sexton Creek 2001  
MAXIMUM DEPTH IN POOLS**



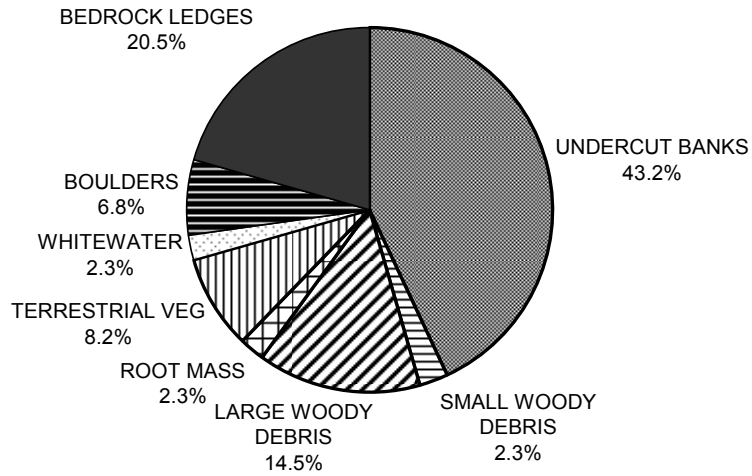
GRAPH 5

**Sexton Creek 2001  
PERCENT EMBEDDEDNESS**



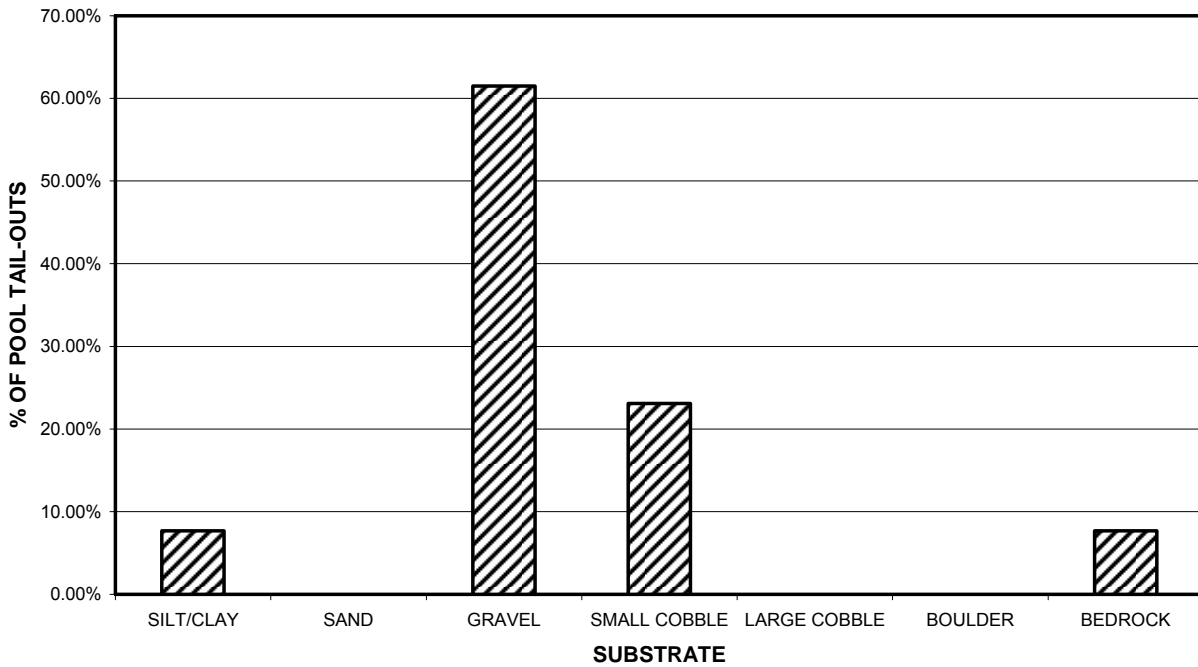
GRAPH 6

**Sexton Creek 2001  
MEAN PERCENT COVER TYPES IN POOLS**



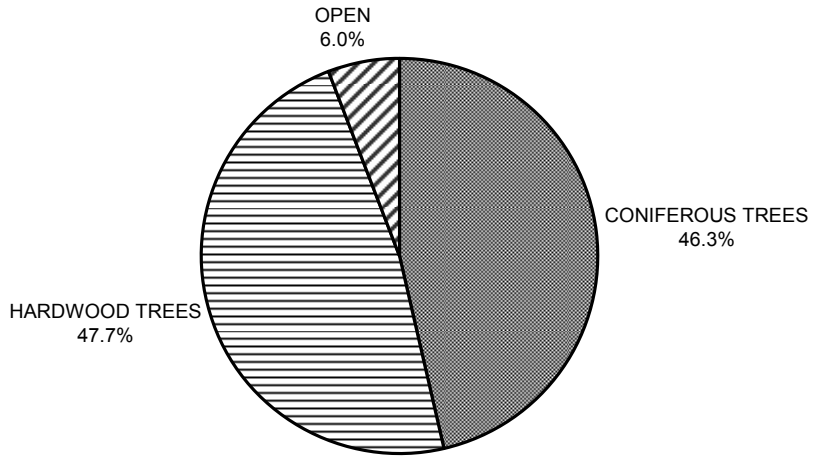
GRAPH 7

**Sexton Creek 2001  
SUBSTRATE COMPOSITION IN POOL TAIL-OUTS**



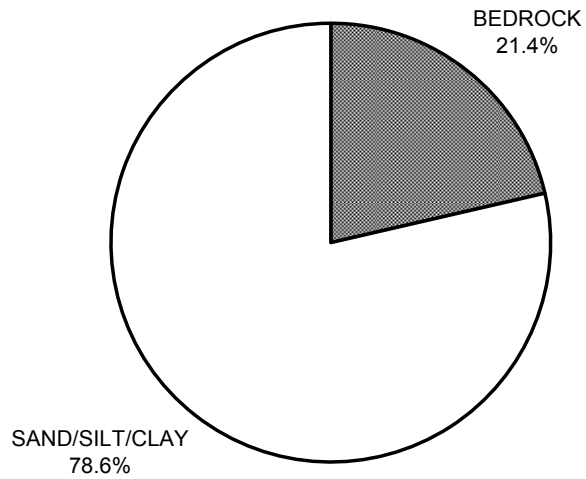
GRAPH 8

**Sexton Creek 2001  
MEAN PERCENT CANOPY**



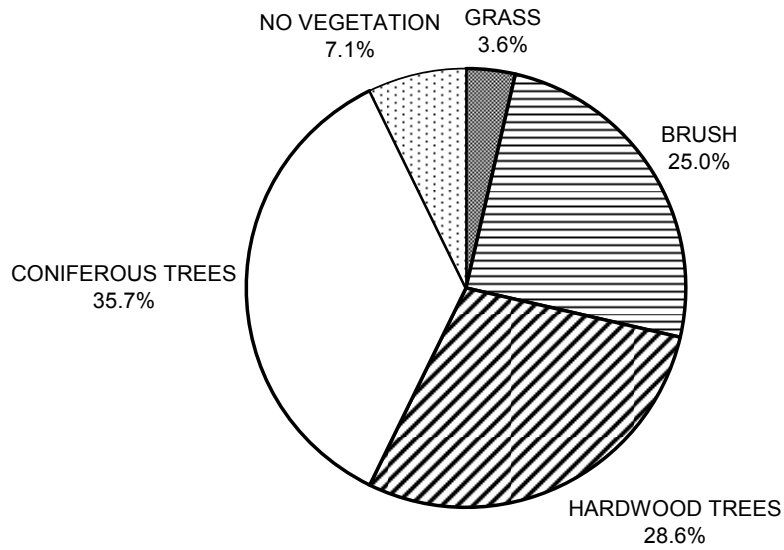
GRAPH 9

**Sexton Creek 2001  
DOMINANT BANK COMPOSITION**



GRAPH 10

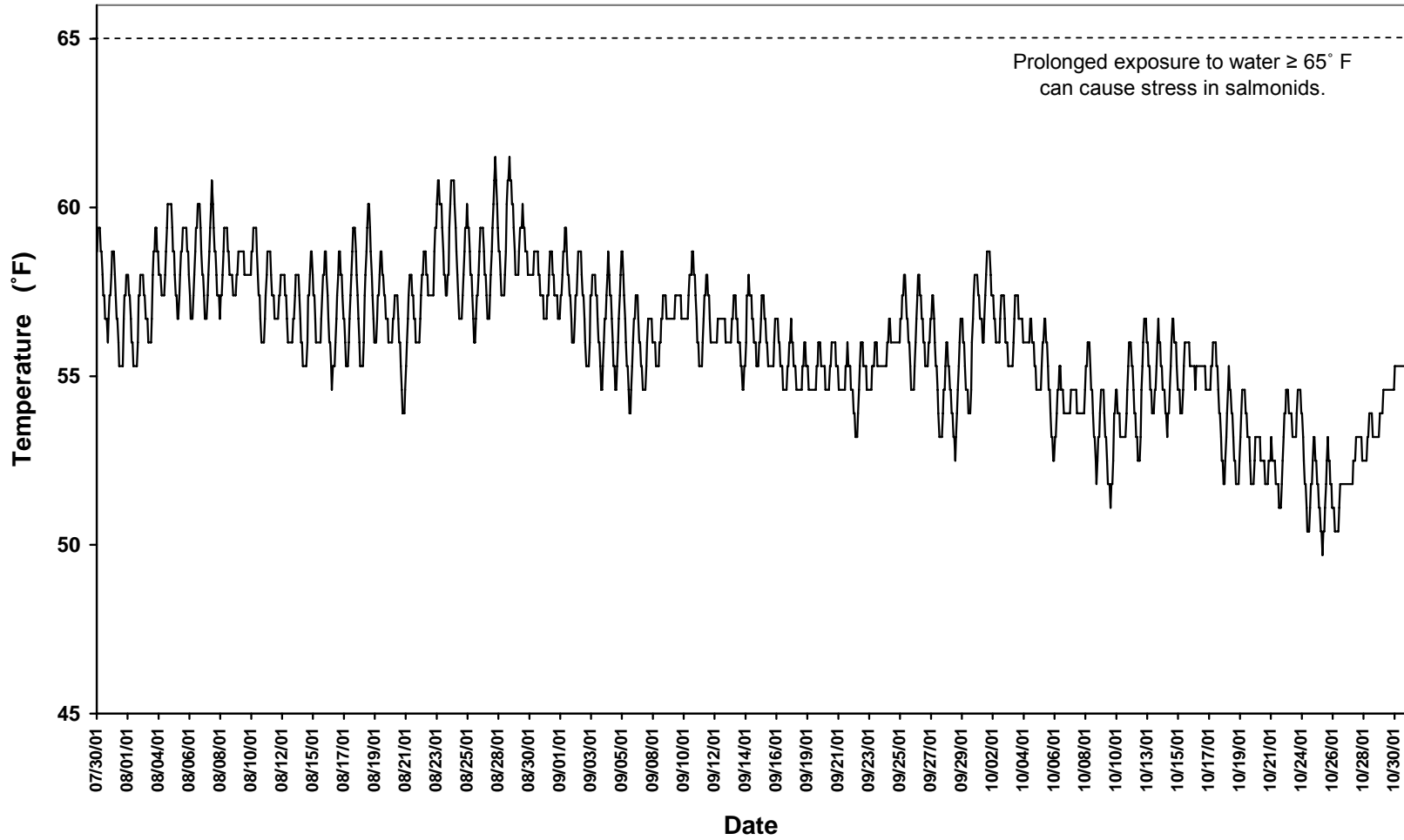
# Sexton Creek 2001 DOMINANT BANK VEGETATION



GRAPH 11

APPENDIX E

Sexton Creek Water Temperatures



Hydrologic Sub-Areas covered by the watershed:

<b>Name:</b>	<b>LLId: (1:24k)</b>	<b>County:</b>	<b>Tributary to</b>	Atascadero Creek
Sexton Creek	1228792383911	Sonoma	<b>Tributary to</b>	Green Valley Creek
			<b>Tributary to</b>	Russian River
<b>Location:</b>	<b>T:</b> 6N	<b>R:</b> 9W	<b>S:</b> 5	<b>Latitude:</b> 38.3911758215893
				<b>Longitude</b> 122.879230095337

Hydrologic Boundary Delineation: Watershed boundaries were delineated using the Watershed Point tool in ArcHydro, running under ArcMap 8.3 (ArcInfo version). A 1:24k stream network was "burned" into the underlying DEM to enforce hydrologic routing.

Aerial Photos (Source): For Mendocino County watersheds, 1993 USGS DOQQs are available in the Teale Albers, NAD27 projection. For Sonoma County watersheds, 2000 County-created orthophotos in the State Plane, NAD83 projection are also available.

<b>Stream Order:</b> <u>2</u>	<b>Total Length:</b>	1.92 Miles	Note: Length is for the USGS blue-line 1:24,000 stream.
Note: Stream order is by Strahler method, recorded in CDF-NCWAP "nhydro1" 1:24k streams layer.		3.10 Km	

<b>Drainage Area:</b>	385 Hectares
	951 Acres
	1.48 sq. mi.

<b>Elevations:</b>	Mouth:	<u>157</u> feet
	Headwaters:	<u>646</u> feet
	Note: Headwaters elevation is the highest elevation found in the watershed.	

**Lakes in Watershed:** Number: 0 Surface area: 0 sq. mi.  
 Note: Source for lakes data is the USGS-DFG 1:100k lakes layer "lakes.shp"

**Fish Species (as indicated by historical salmonid streams layer created by Bob Coey):** None

**Ownership, for the watershed, in acres (and % of total watershed):**

Federal:	State:	Local:	Private:
0.0 acres	0.0	0.0	951.1
0.00 %	0.00 %	0.00 %	100.00 %

Note: Source for ownership data is 2002 DFG-CCR "ccr\_public\_lands.shp" GIS layer.

**Major Land Uses in the Watershed, in acres (and % of total watershed)**

<b>Mixed hardwood/conifer:</b>	<b>Hardwood:</b>	<b>Conifer:</b>	<b>Agriculture:</b>	<b>Urban:</b>
61.93 acres	385.32	0.00	409.11	0.00
6.5 %	40.5 %	0.0 %	43.1 %	0.0 %
<b>Shrub:</b>	<b>Herbaceous:</b>	<b>Barren/rock:</b>	<b>Water:</b>	
0.00	93.59	0.00	0.00	
0.0 %	9.8 %	0.0 %	0.0 %	

Note: Land use areas were calculated using the 1994 CDF-USFS "Calveg" GIS layer.

## USGS 7.5' Topographic Quads completely or partially in the watershed:

Quad Name	USGS Code
TWO ROCK	38122C7
VALLEY FORD	38122C8
SEBASTOPOL	38122D7
CAMP MEEKER	38122D8

## Endangered/Threatened/Sensitive Species: (California Natural Diversity Database, May 5, 2003 version )

Scientific Name	Common Name
<i>Syncaris pacifica</i>	California freshwater shrimp

## Hydrologic Sub-Areas covered by the watershed

Hydrologic Sub-Area Name:	ID code (RBUAS)	Hydrologic Area Name	% of watershed in this HSA
Guerneville	111411	Lower Russian River	99.96
Estero Americano	111530	Estero Americano	0.04