

REACH SUMMARY

REACH 1

T32S-R6W-S16NE

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0	Constraining Terraces	0
Moderate V-shape	0	Multiple Terraces	100
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 4.0 range: 2.0-5.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	100	Braided Channel	0
Alt. Terrace/Hill	0		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	483	961	0
Secondary	0	0	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width 2.0	Width 3.1	5.3	5.9
Depth 0.24	Height 0.4	0.8	1.1
	W:D ratio 8.7	Entrenchment 1.7	

Stream Flow Type: MF Water Temp: 11.5-11.5°C
 Avg. Unit Gradient: 5.6% Habitat Units/100m: 12.8

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D30	D3

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	12%	Reach avg: 66%
Undercut Banks	10%	Range: 28-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	70	14.5
Volume (m^3)	78	16.1
Key pieces ($\geq 10m \times 0.6m$)	2	0.4

HABITAT UNIT SUMMARY

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
CASCADE/BOULDERS	5	64	2.0	0.17	136	31	3	8	46	26	17	0
CULVERT CROSSING	1	11	0.5	0.05	6	0	0	0	40	60	0	0
POOL-LATERAL SCOUR	13	78	2.2	0.36	169	1	8	25	46	19	2	0
POOL-PLUNGE	8	30	3.4	0.64	101	2	10	47	24	13	4	3
POOL-STRAIGHT SCOUR	2	10	2.2	0.25	22	0	3	26	41	31	0	0
RAPID/BOULDERS	12	176	2.0	0.15	350	24	3	15	32	43	7	0
RIFFLE	8	95	1.6	0.14	152	1	5	29	41	25	0	0
STEP/BEDROCK	1	2	1.5	0.10	3	0	0	0	0	0	0	100
STEP/LOG	11	17	1.4	0.06	24	0	5	26	44	23	2	0
STEP/STRUCTURE	1	0	0.5	0.05	0	0	10	10	20	60	0	0
Total:	62	483	2.0	0.24	961	59	Avg: 6	24	38	26	4	2

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	0	0	-	-	0	0.00	0	0.0
Scour Pools	23	119	2.6	0.45	291	30.29	3	1.0
Glides	0	0	-	-	0	0.00	0	0.0
Riffles	8	95	1.6	0.14	152	15.80	1	0.7
Rapids	12	176	2.0	0.15	350	36.42	24	6.9
Cascades	5	64	2.0	0.17	136	14.10	31	22.9
Step/Falls	13	18	1.4	0.06	27	2.80	0	0.0
Dry	0	0	-	-	0	0.00	0	0.0

POOL SUMMARY

	Total	#/Km
All Pools	23	47.6
Pools ≥1m deep:	2	4.1
Complex pools (LWD pieces≥3):	4	8.3
Pool Frequency (channel widths/pool):	6.8	
Residual pool depth (avg)	0.33m	

STREAM SUMMARY

DEETS CREEK

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area						Total Large Boulder
					S/O	Sand	Grvl	Cbbl	Bldr	Bdrk	
62	483	2.0	0.24	961	6	24	38	26	4	2	59

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	291	30.3
Backwater Pools	0	0.0
Glide	0	0.0
Riffle	152	15.8
Rapid	350	36.4
Cascade	136	14.1
Step	27	2.8
Dry	0	0.0

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	1,321
Total conifers/1000 ft	325
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	6.3	1.0	4.7	0.7	4.0	1.7	15.0
15-30cm	0.0	2.7	1.0	0.0	1.0	0.7	2.0	3.3
30-50cm	0.3	1.7	0.7	0.3	0.7	0.7	1.7	2.7
50-90cm	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.7
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.3	10.7	2.7	5.3	2.3	5.7	1.8	7.2

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	55		58		47	
Shrub cover	39		45		50	
Grass/forb cover	41		41		24	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	17		83		50
High terrace	50		0		0	
Low terrace	33		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		50	
Riprap	0		0		0	
Surface slope (%)	9		24		20	

Summary of Riparian Zone (0-30m) for all reaches (3 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	1,321
Total conifers/1000 ft	325
Total conifers >20" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	1.7	15.0
15-30cm	2.0	3.3
30-50cm	1.7	2.7
50-90cm	0.0	0.7
>90cm	0.0	0.0

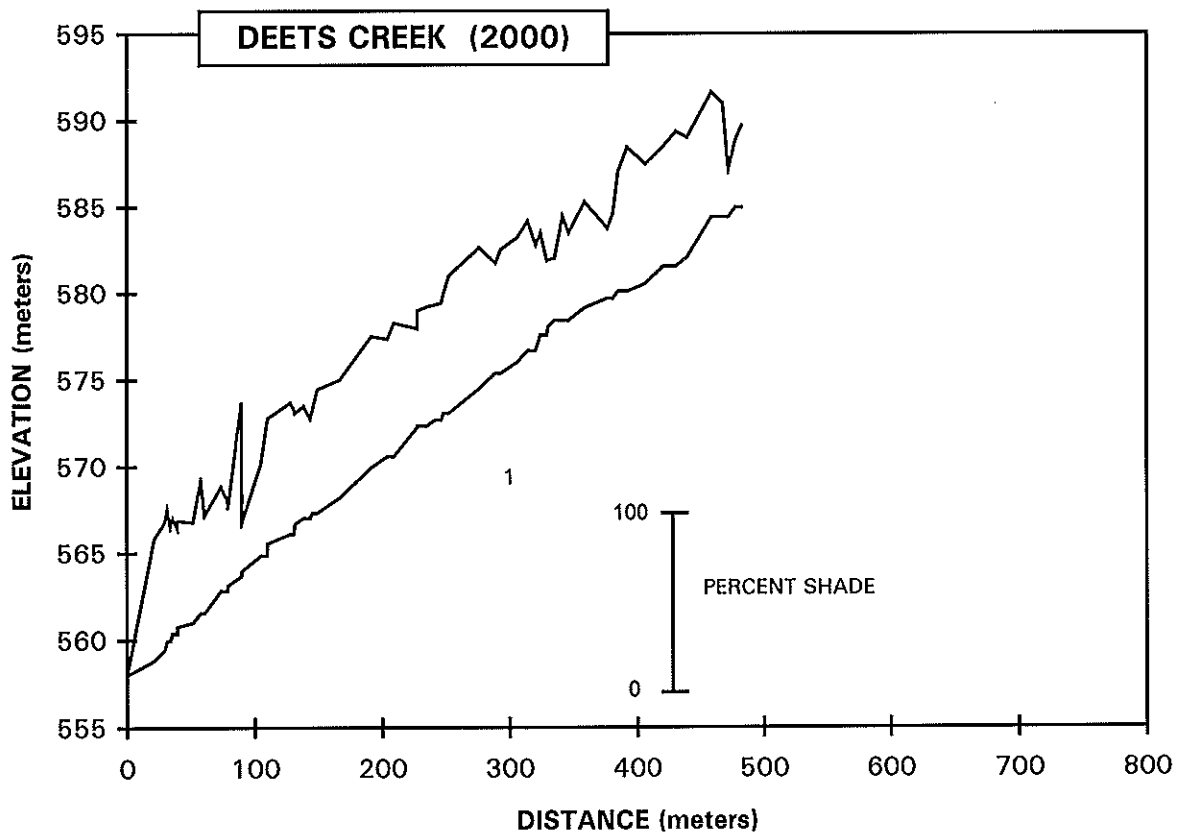
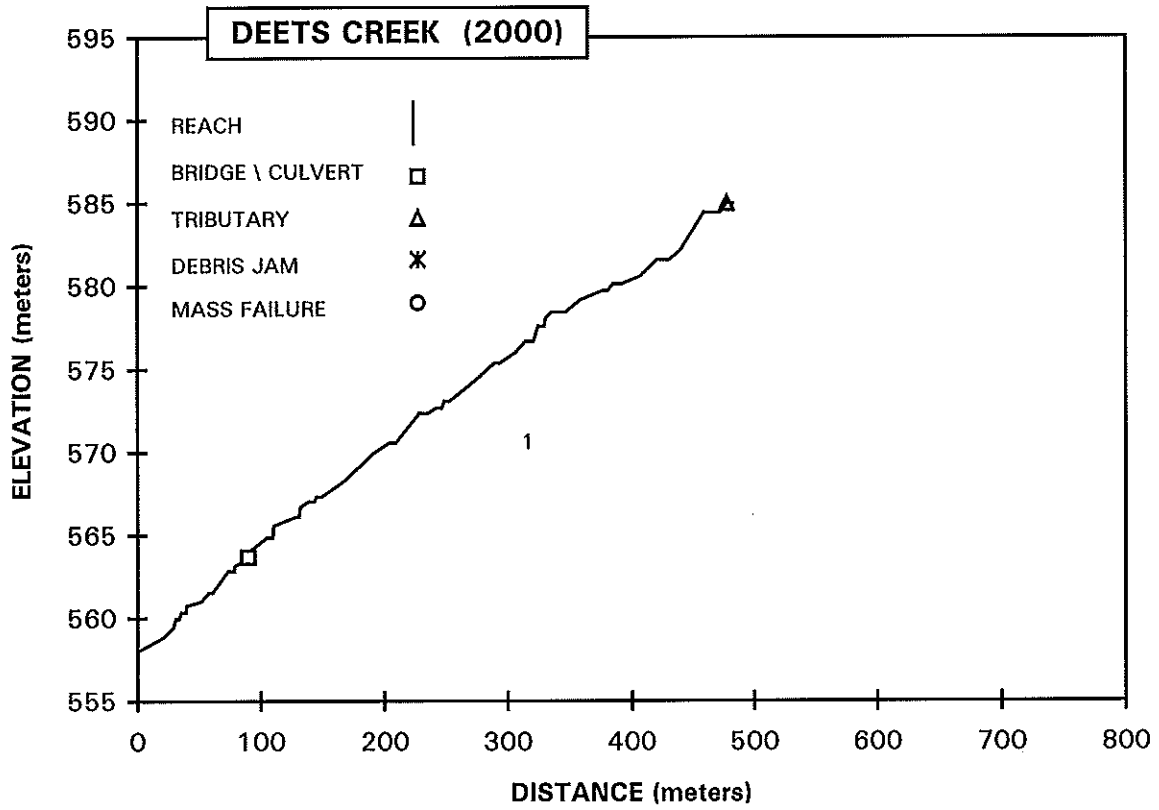
RIPARIAN ZONE VEGETATION

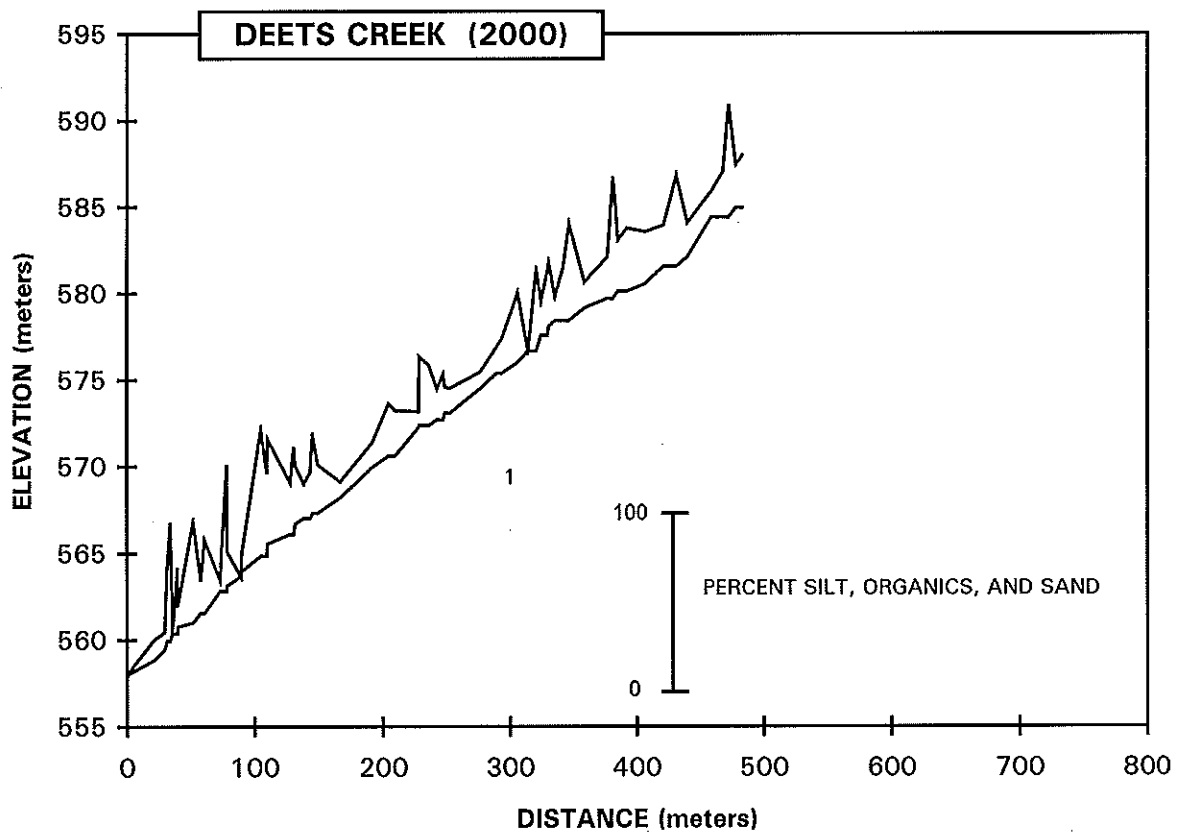
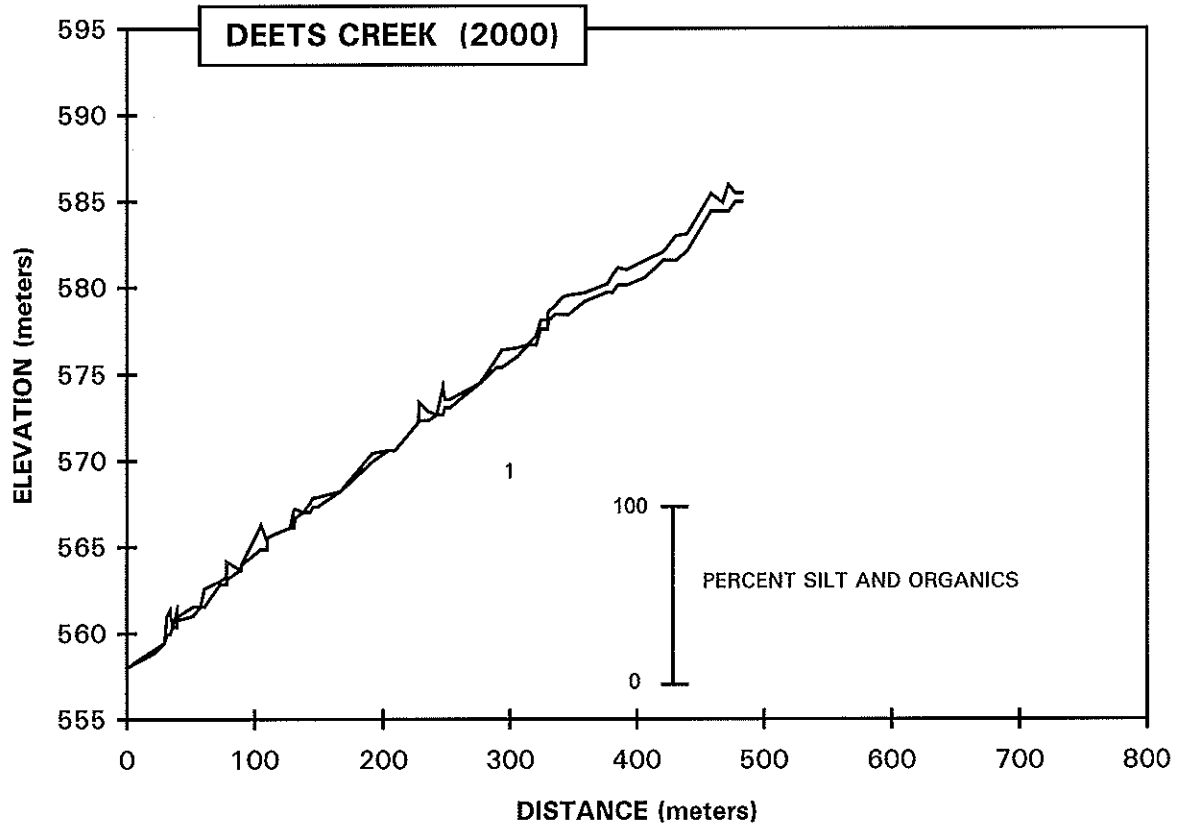
Reach 1

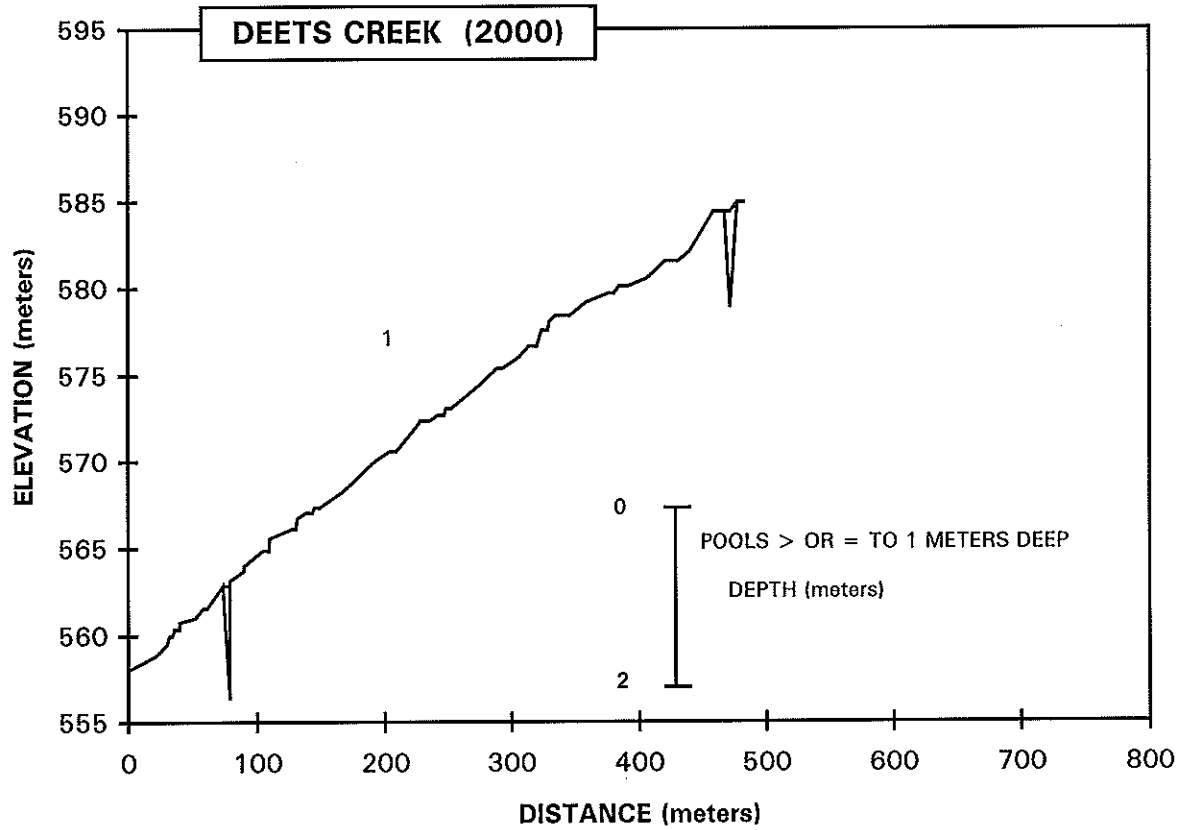
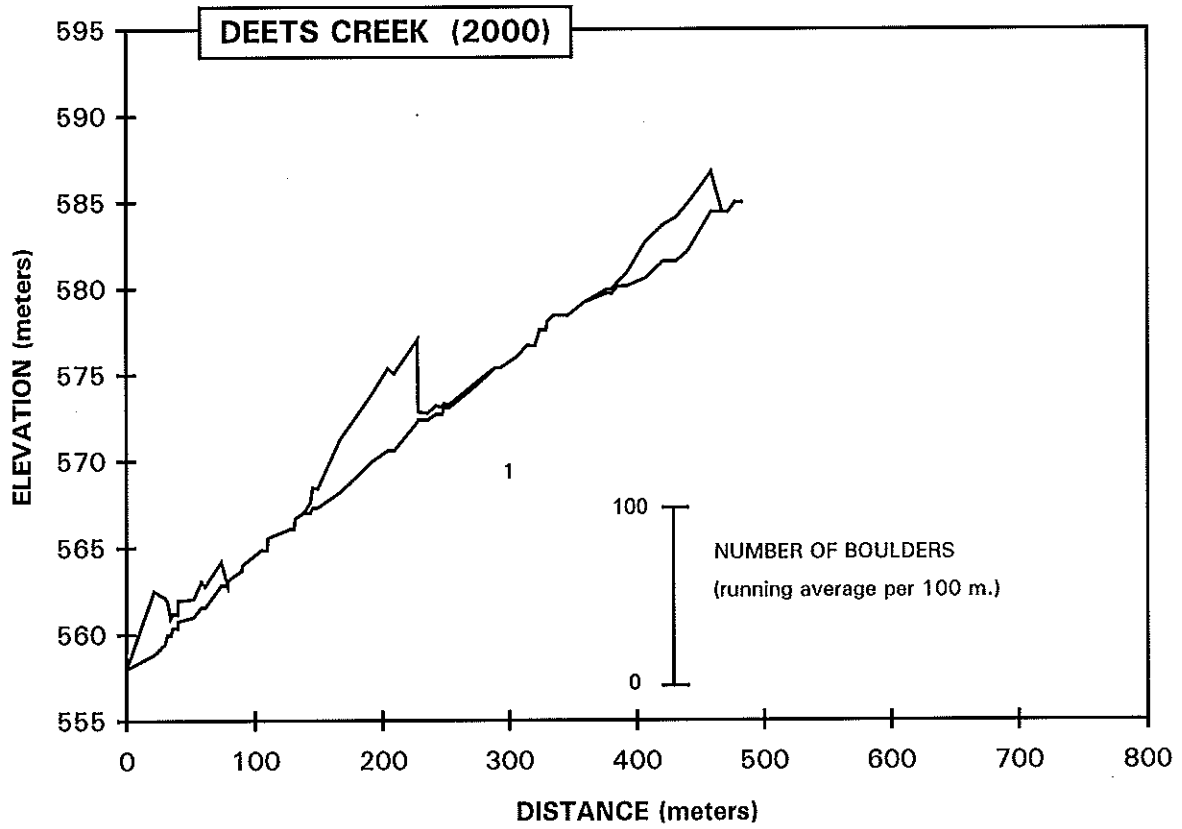
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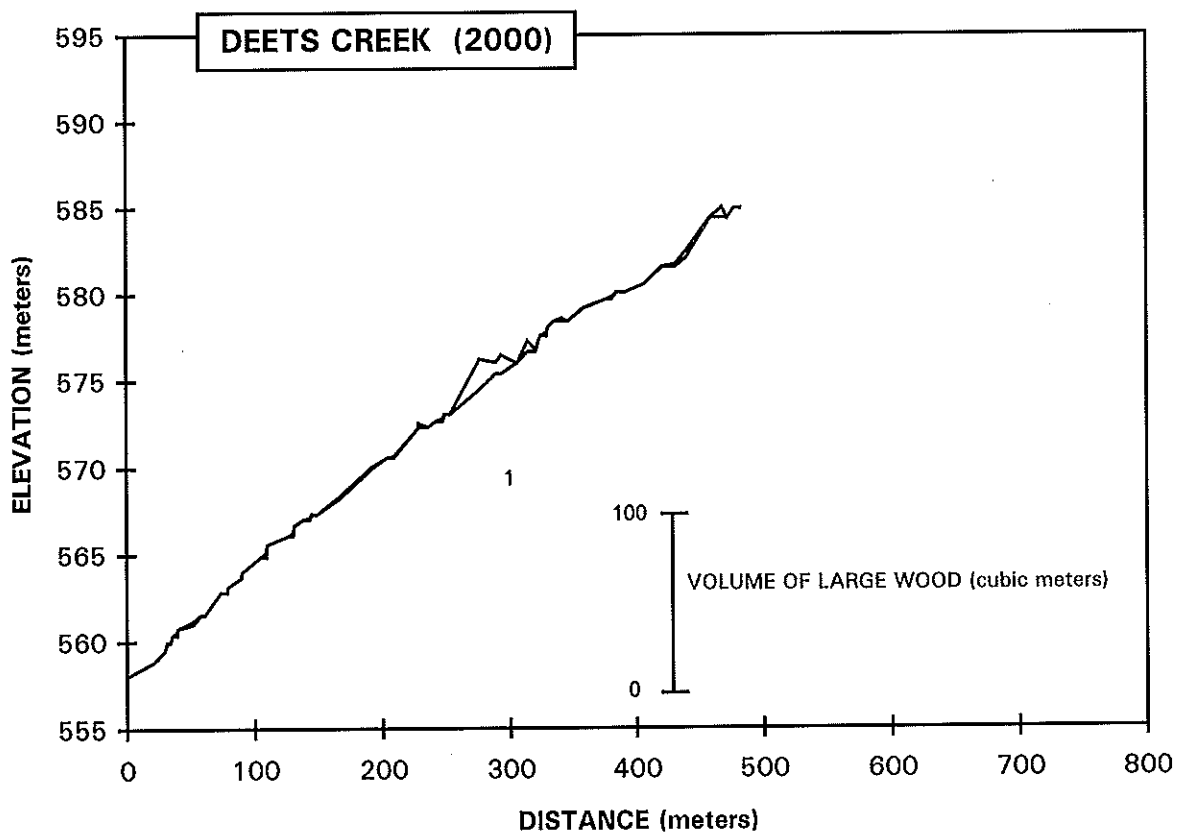
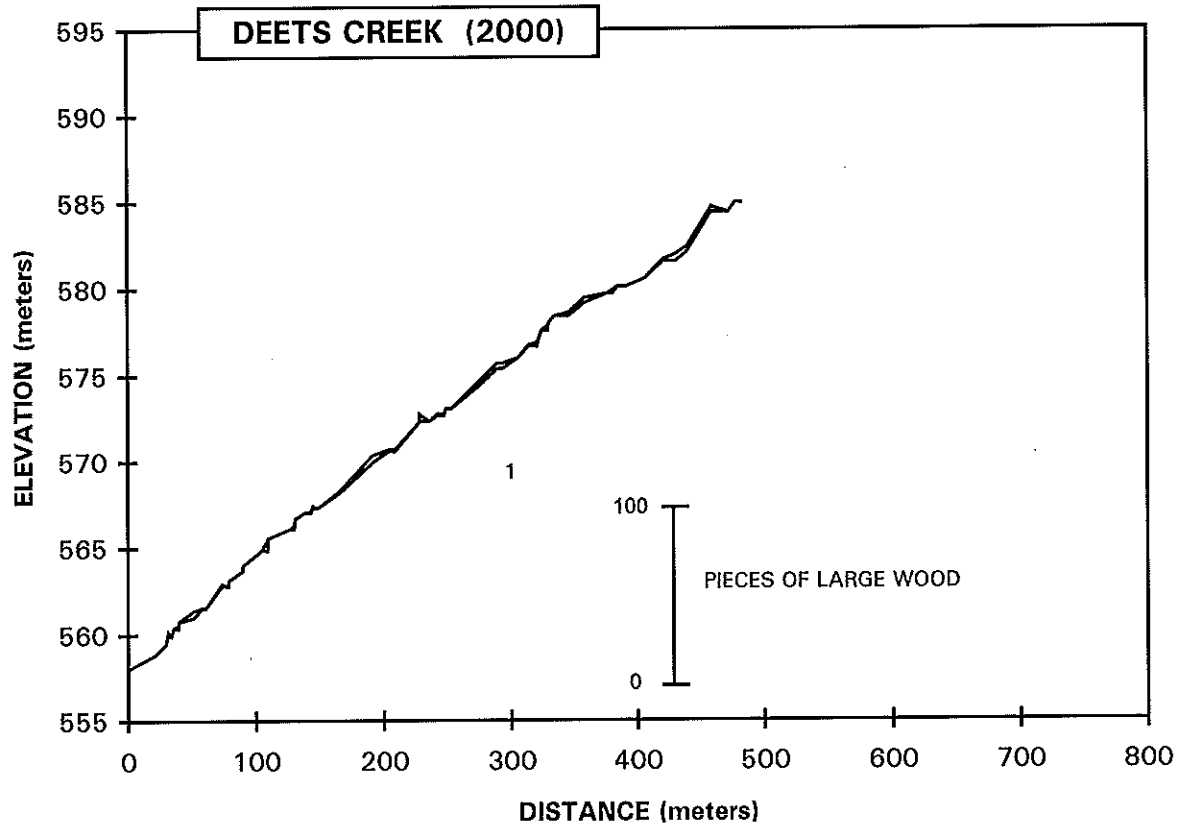
VEGETATION DETAIL

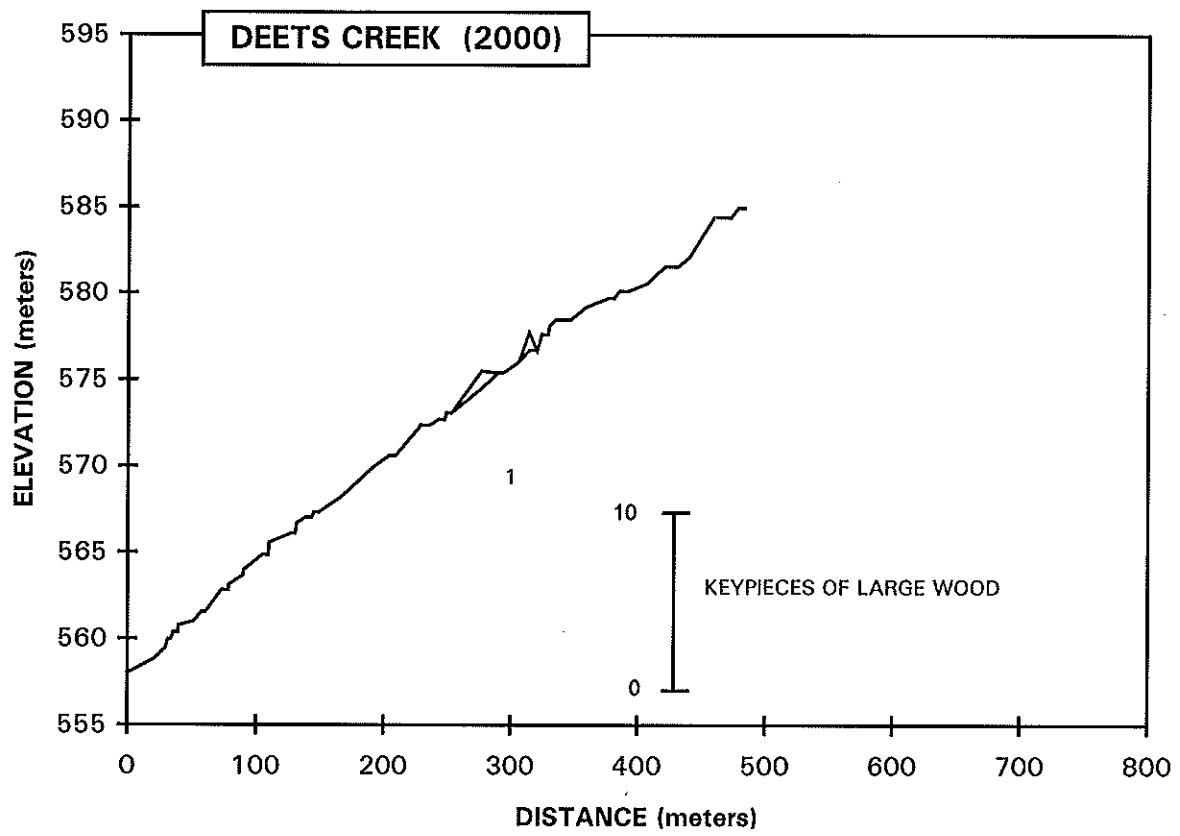
Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
20	LF	1	HS	55.0	85	50	40	Conifer	0	0	1	0	0	
								Hardwood	1	0	1	0	0	
20	LF	2	HS	69.0	85	30	40	Conifer	0	1	0	0	0	
								Hardwood	0	0	0	0	0	
20	LF	3	HS	71.0	85	60	15	Conifer	0	2	1	0	0	
								Hardwood	1	0	0	0	0	
20	RT	1	HT	0.0	85	20	80	Conifer	0	0	0	0	0	
								Hardwood	2	4	1	0	0	
20	RT	2	HS	5.0	90	35	20	Conifer	3	2	2	0	0	
								Hardwood	1	0	0	0	0	
20	RT	3	RB	0.0	25	20	20	Conifer	0	1	0	0	0	
								Hardwood	3	0	0	0	0	
36	LF	1	HT	0.0	50	50	50	Conifer	0	0	0	0	0	
								Hardwood	7	1	0	0	0	
36	LF	2	HS	54.0	75	60	40	Conifer	0	0	0	0	0	
								Hardwood	1	0	1	1	0	BL MAPLE
36	LF	3	HS	35.0	75	60	30	Conifer	2	0	1	0	0	
								Hardwood	0	0	1	1	0	
36	RT	1	HT	0.0	85	25	40	Conifer	0	0	0	0	0	
								Hardwood	3	3	3	0	0	
36	RT	2	HS	7.0	30	50	45	Conifer	0	0	0	0	0	
								Hardwood	2	0	0	0	0	
36	RT	3	RB	0.0	10	40	25	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
50	LF	1	LT	0.0	10	70	30	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
50	LF	2	HS	8.0	20	60	40	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
50	LF	3	HS	12.0	50	70	25	Conifer	0	0	0	0	0	
								Hardwood	3	2	1	0	0	
50	RT	1	LT	0.0	15	20	8	Conifer	0	0	0	0	0	
								Hardwood	3	0	0	0	0	
50	RT	2	LT	0.0	50	35	60	Conifer	0	0	0	0	0	
								Hardwood	7	0	0	0	0	
50	RT	3	RB	0.0	35	50	30	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	0	0	



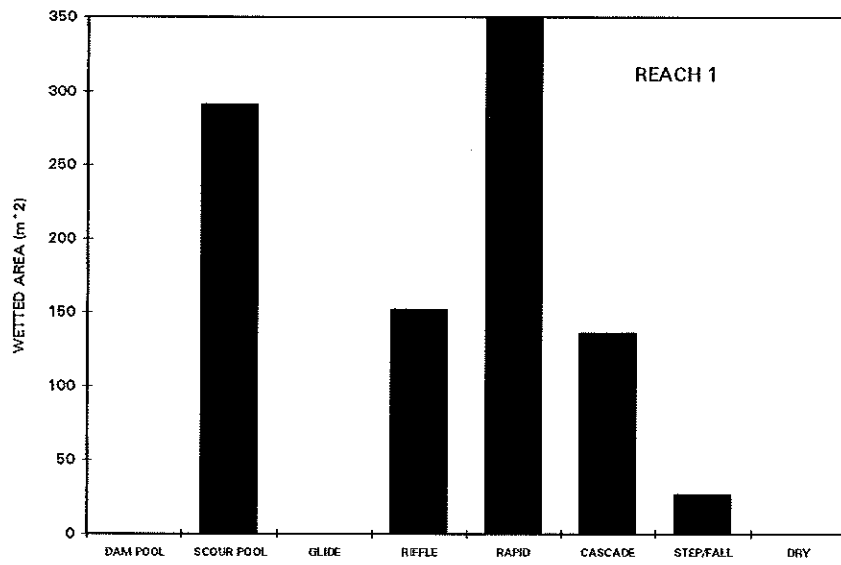






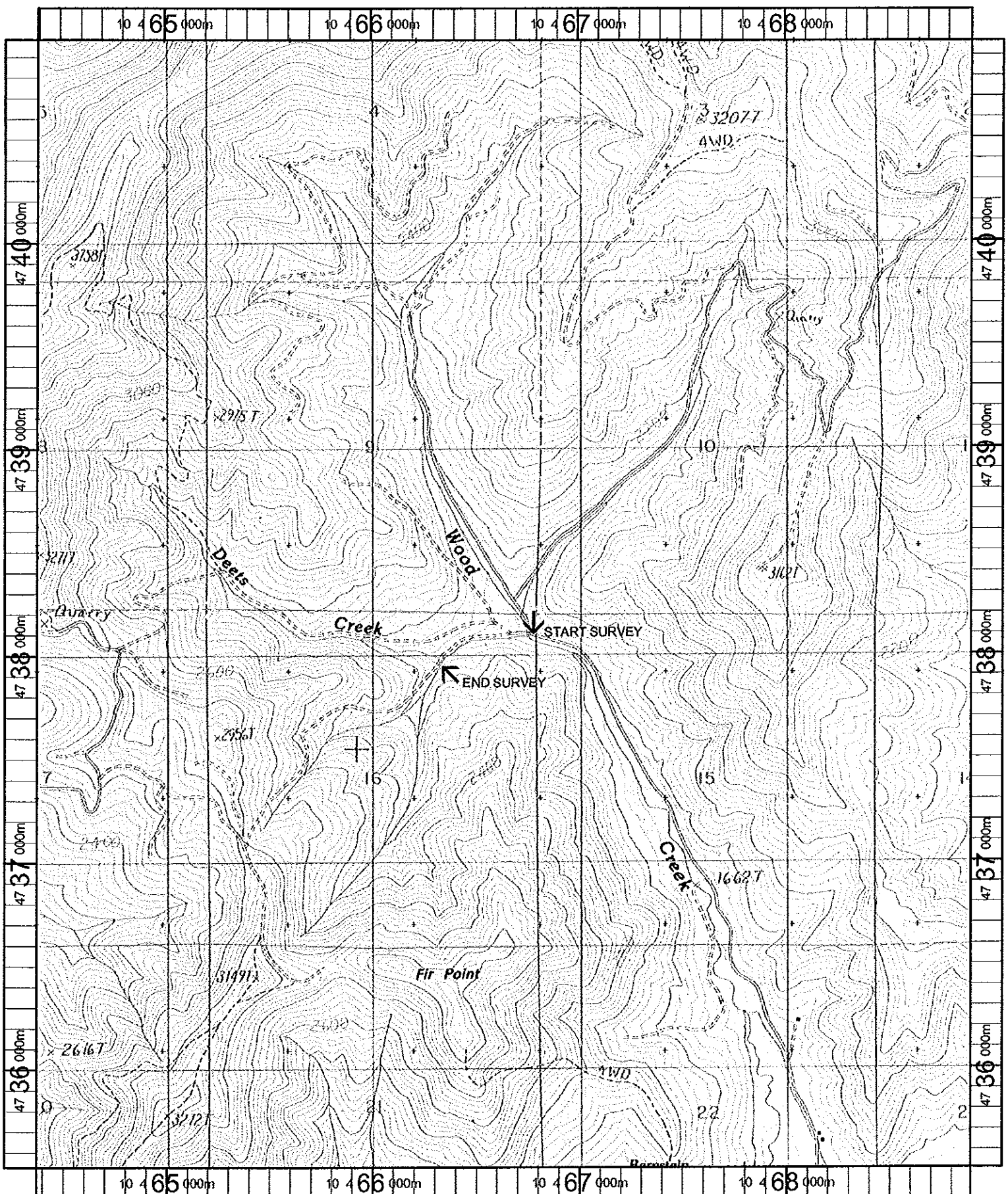


DEETS CREEK (2000): HABITAT DISTRIBUTION



DEETS CREEK (2000)

REACH	UNIT#	TYPE	CHAN	DIST.(m)	COMMENTS	NOTE_ESTIMATOR	NOTE_NUMERATOR
1	1	RB	00	21			START AT TJ OF WOODS CREEK
1	2	RB	00	29			1ST MATRIX
1	5	SR	00	36		H=.4	
1	7	SL	00	40		H=.4	
1	13	SS	00	79		H=.3	D=1.5M METAL
1	14	CC	00	90	CC		LOW FLOW BARRIER
1	15	SL	00	90	PN	H=.3, LOGS IN FRONT CULVERT	
1	18	SL	00	110		H=.7	
1	20	PP	00	131		RIP	1ST RIP
1	21	SL	00	132		H=.6	
1	24	SL	00	145		H=.3	
1	30	CB	00	228			T=11.5C/1339
1	31	SL	00	228		H=1	
1	35	SL	00	249		H=.4	
1	36	LP	00	253		RIP	
1	42	LP	00	321	/CE		D=.5, H=.5
1	43	SL	00	325		H=.9	
1	45	SL	00	331		H=.5	
1	48	LP	00	347			FRY
1	50	RI	00	377		RIP	
1	52	SL	00	385		H=.4	FRY
1	54	RI	00	407	SS/	SS/	
1	55	RB	00	421	SS/	LOGGING CABLE IN STREAM	OLD VEG SIDE CHNL/
1	56	LP	00	431		OLD VEG SIDE SS/	
1	60	PP	00	472			10T0466343 UTM 4738006
1	61	CB	00	478	TJ		EOS @ UNNAMED TJ



Name: MC CULLOUGH CREEK
 Date: 11/7/100
 Scale: 1 inch equals 2000 feet

Location: 10 466542 E 4738233 N
 Caption: DEETS CREEK RESTORATION SITE - UMPQUA BASIN