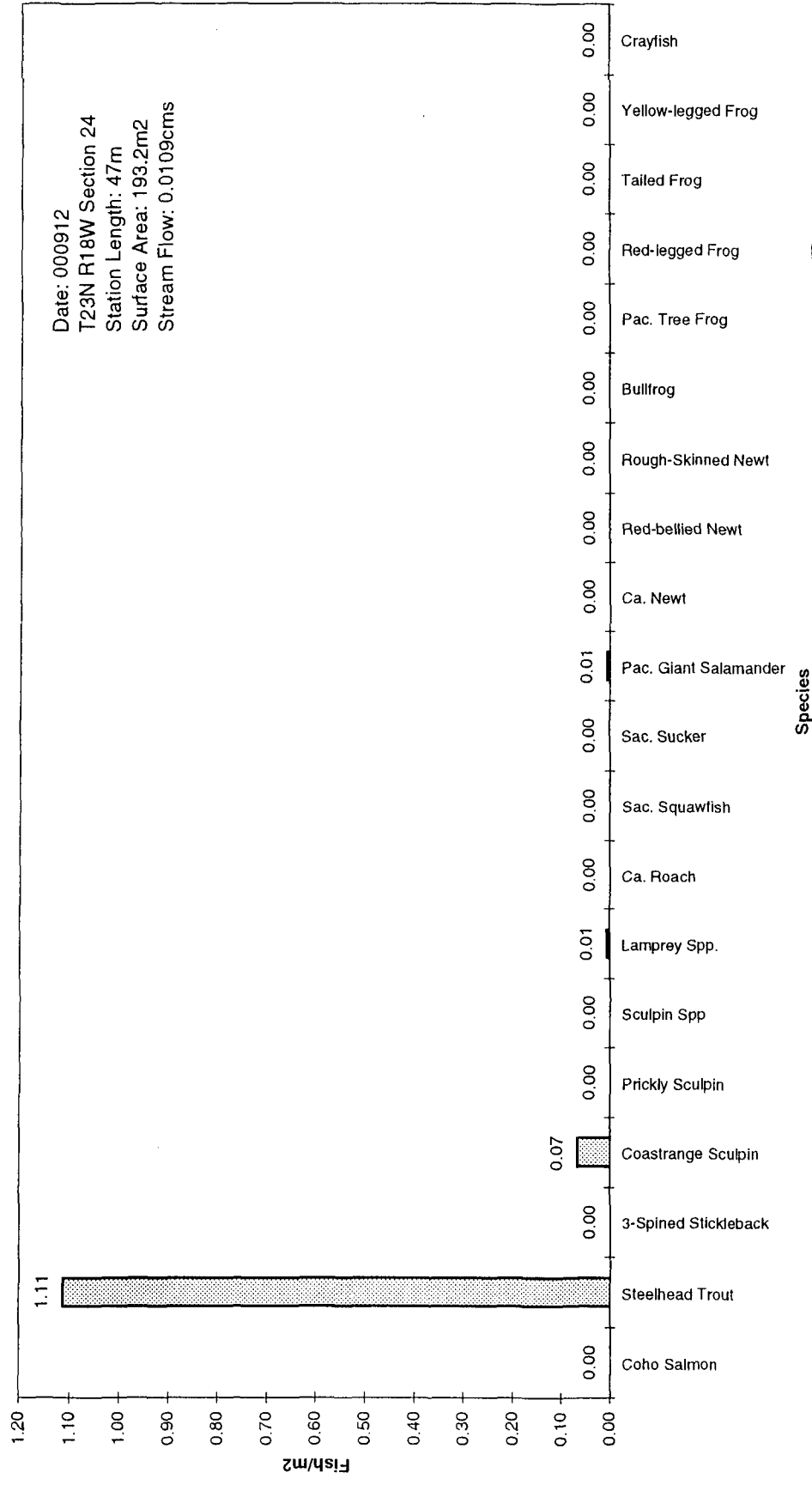


Estimated Aquatic Vertebrate Populations. Campbell Timberland Mgt., Fort Bragg, CA

Sample Location: South Fork Usal Creek (USA 1)



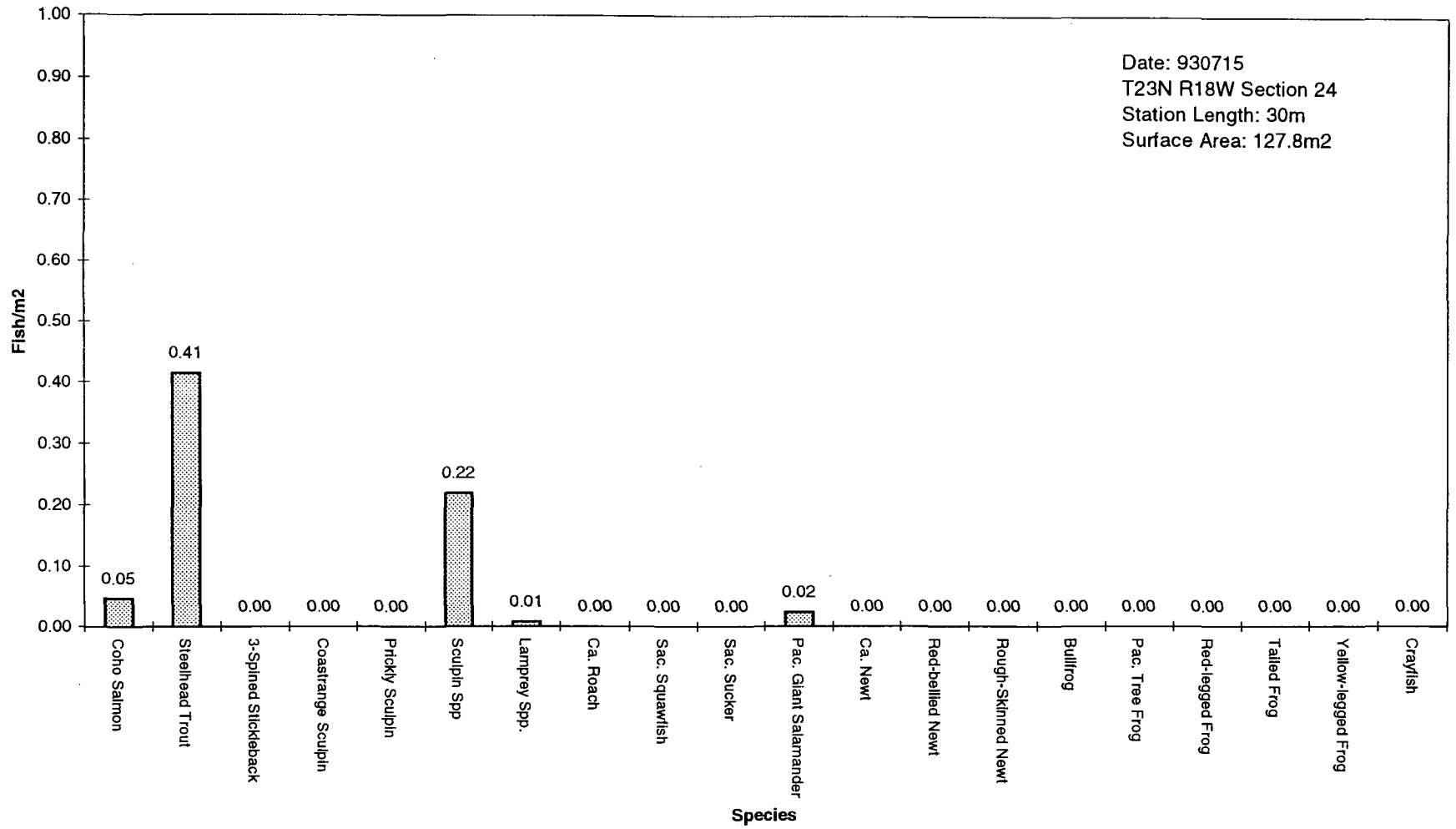
R W Q C B  
 REGION 1

AUG 10 2001

- LAM
- RL
- FCR
- CRJ
- SAW
- RSG
- SWG
- KAD
- ST JOHN
- CELAND

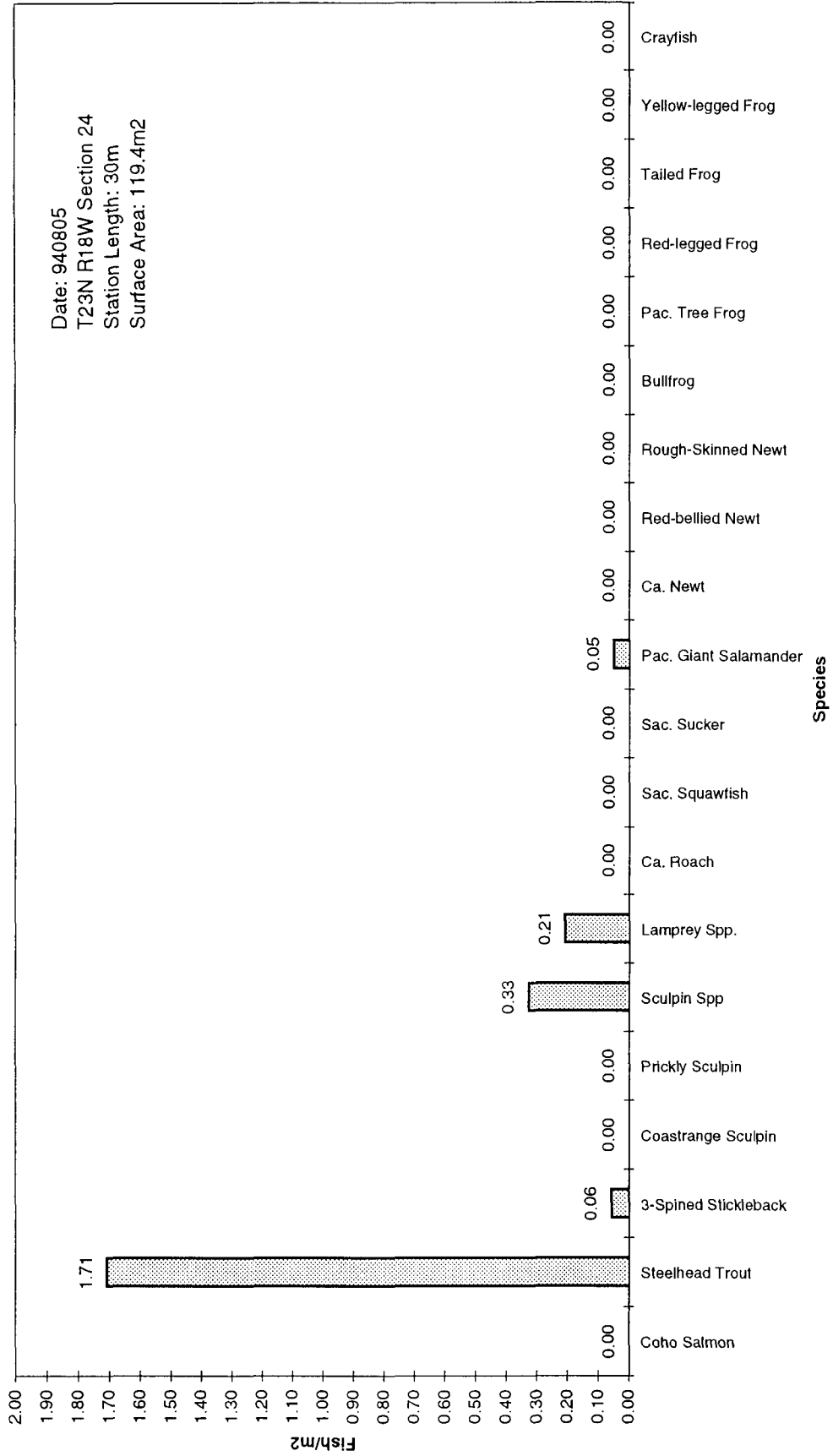
Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: South Fork Usal Creek (UAS1)

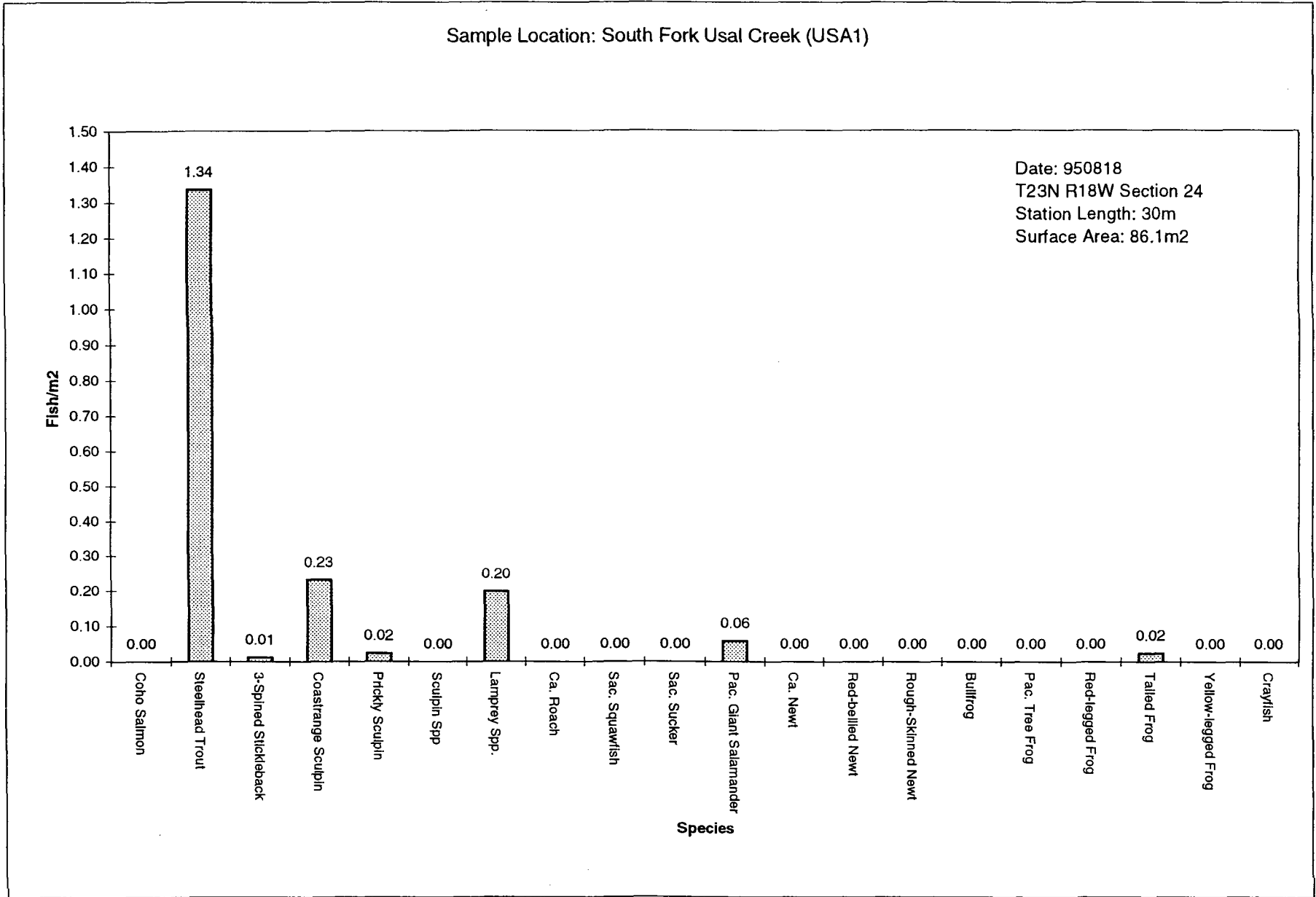


Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: South Fork Usal Creek (USA1)

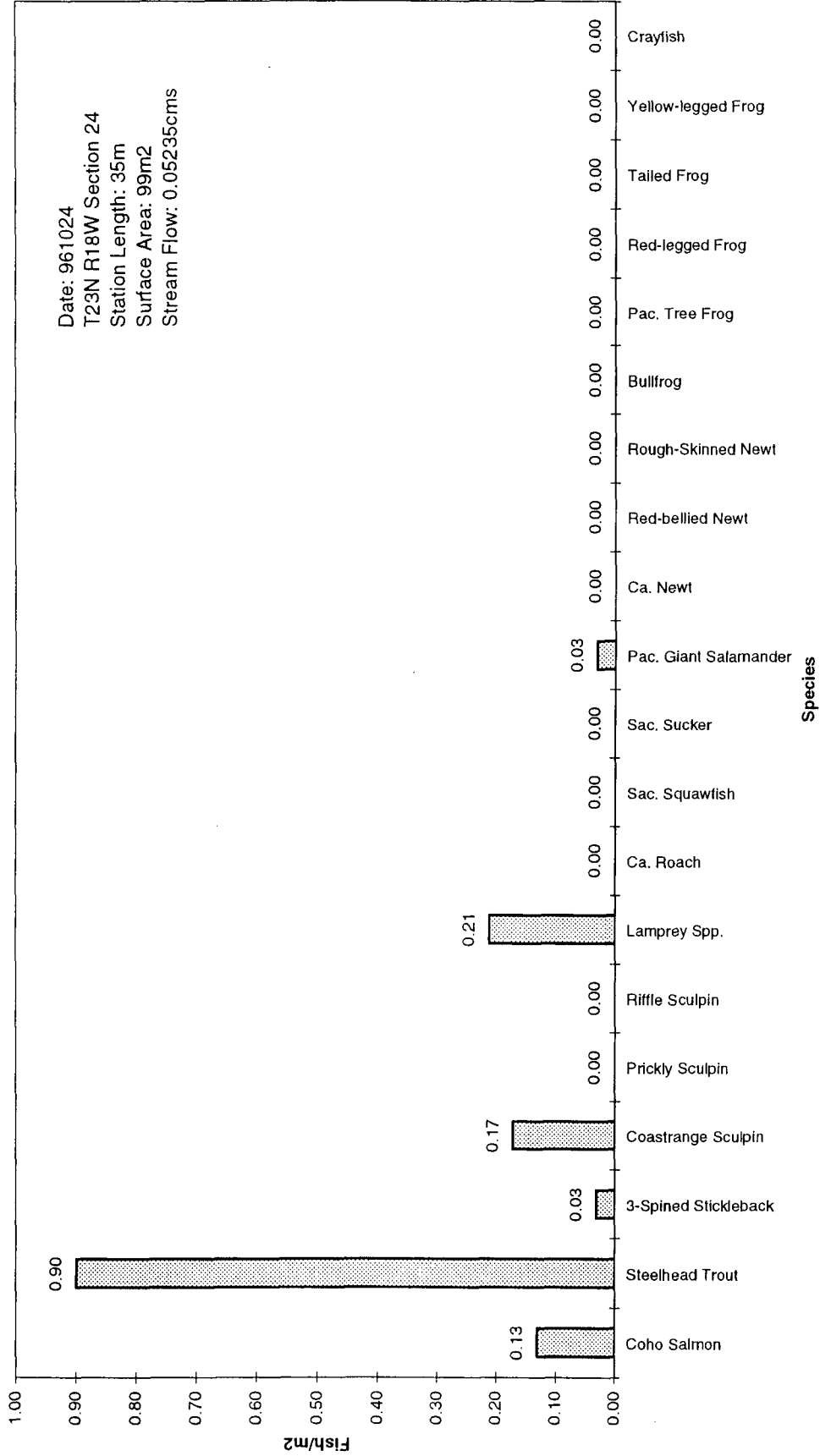


Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

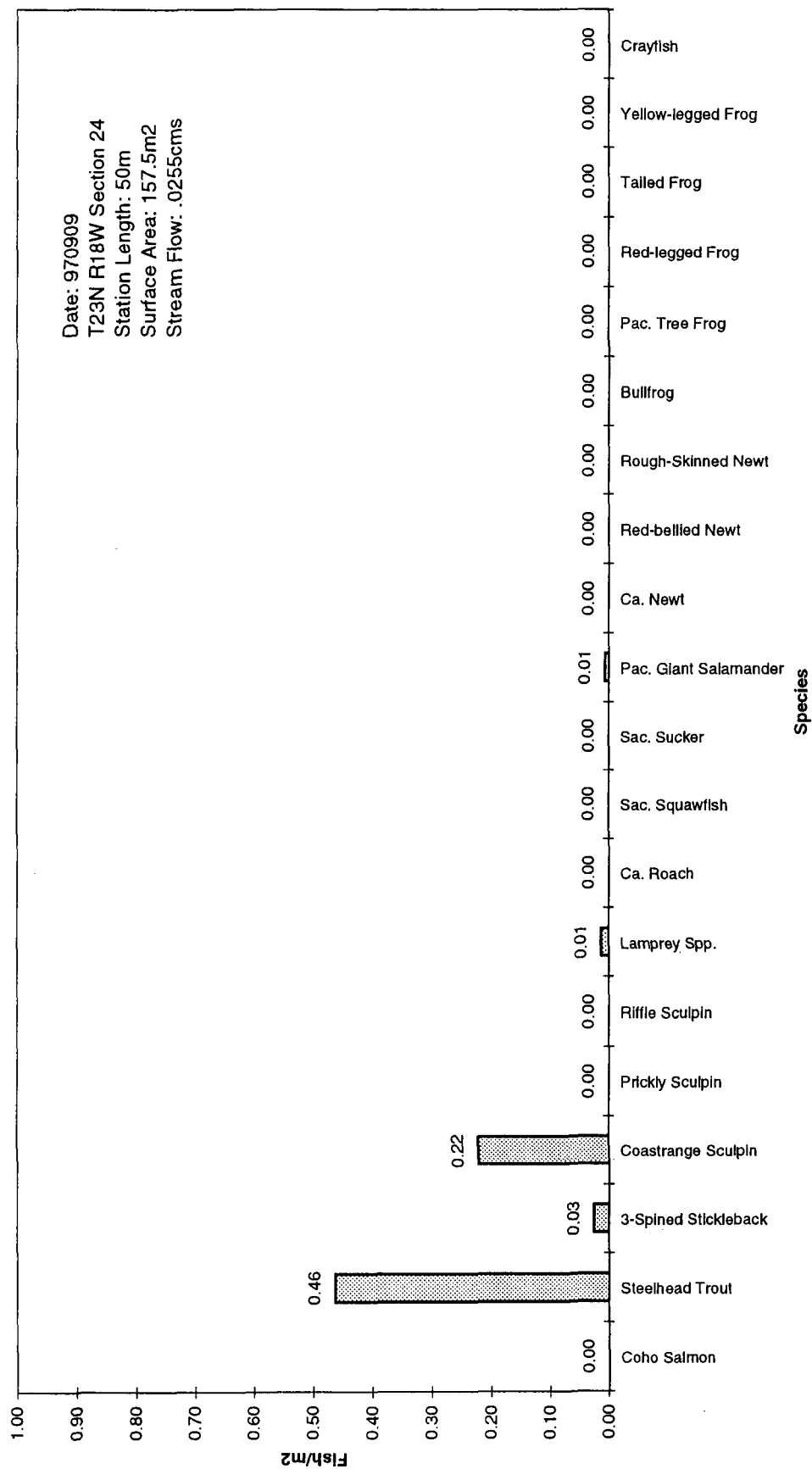
Sample Location: South Fork Usal Creek (USA1)



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

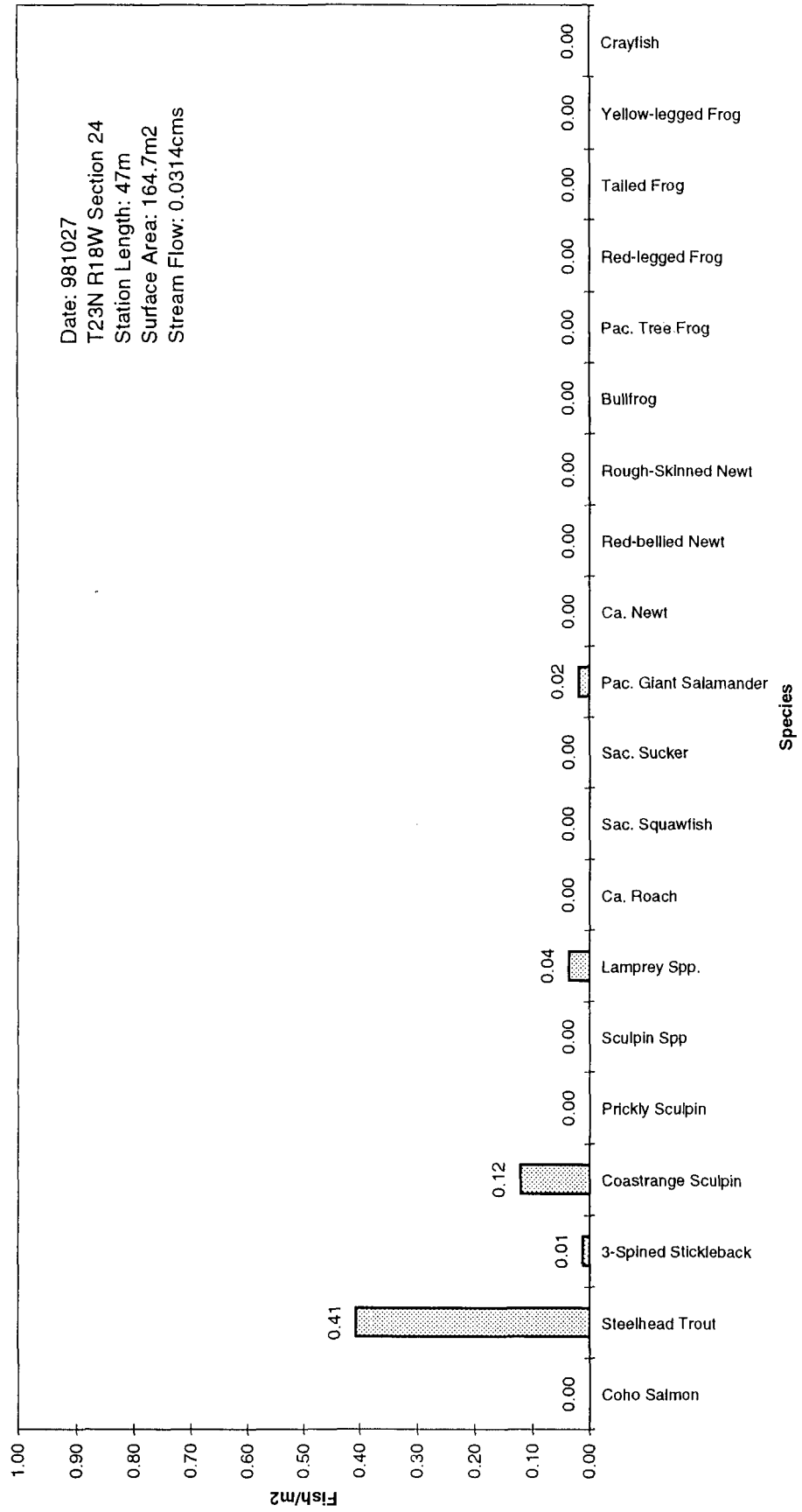
Sample Location: South Fork Usal Creek (USA1)

Date: 970909  
 T23N R18W Section 24  
 Station Length: 50m  
 Surface Area: 157.5m<sup>2</sup>  
 Stream Flow: .0255cms

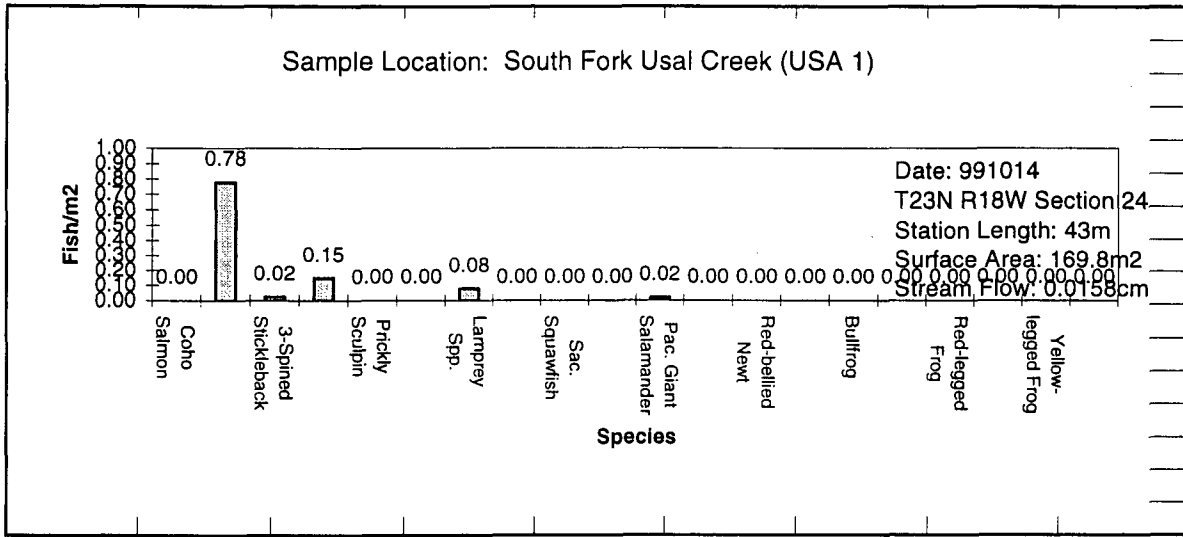


Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: South Fork Usal Creek (USA1)



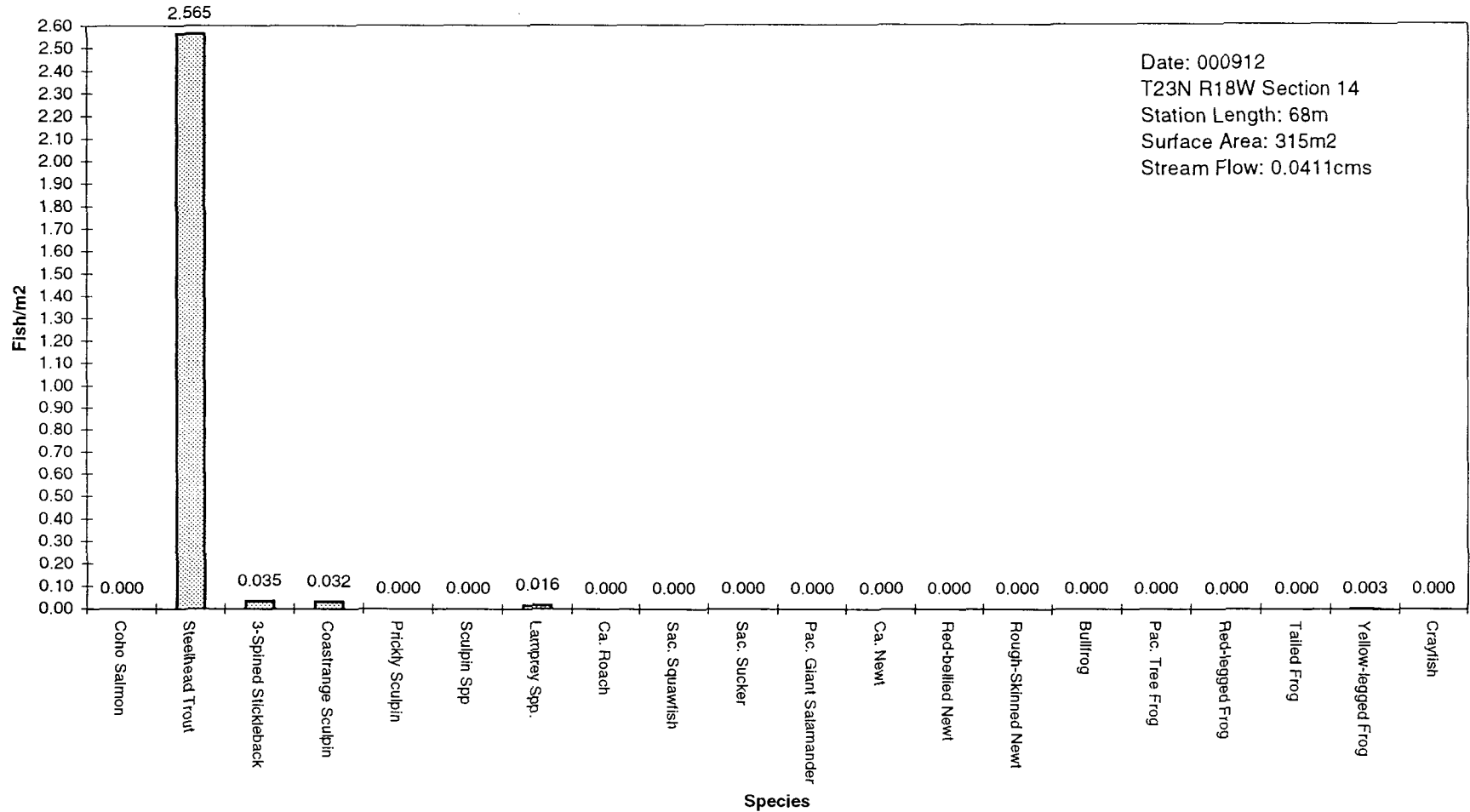
Graph





Estimated Aquatic Vertebrate Populations. Campbell Timberland Mgt., Fort Bragg, CA

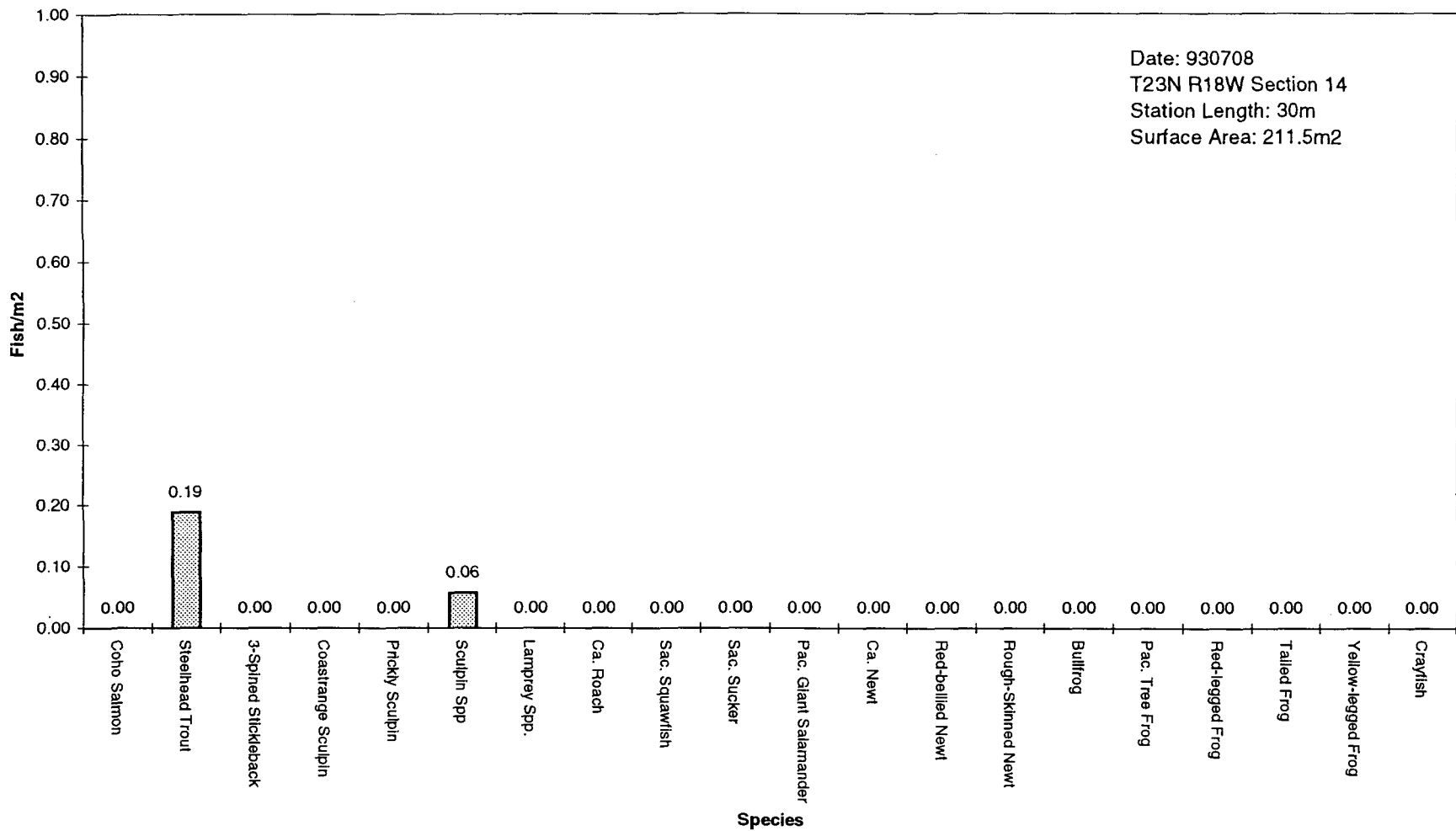
Sample Location: North Fork Usal Creek (USA 2)



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

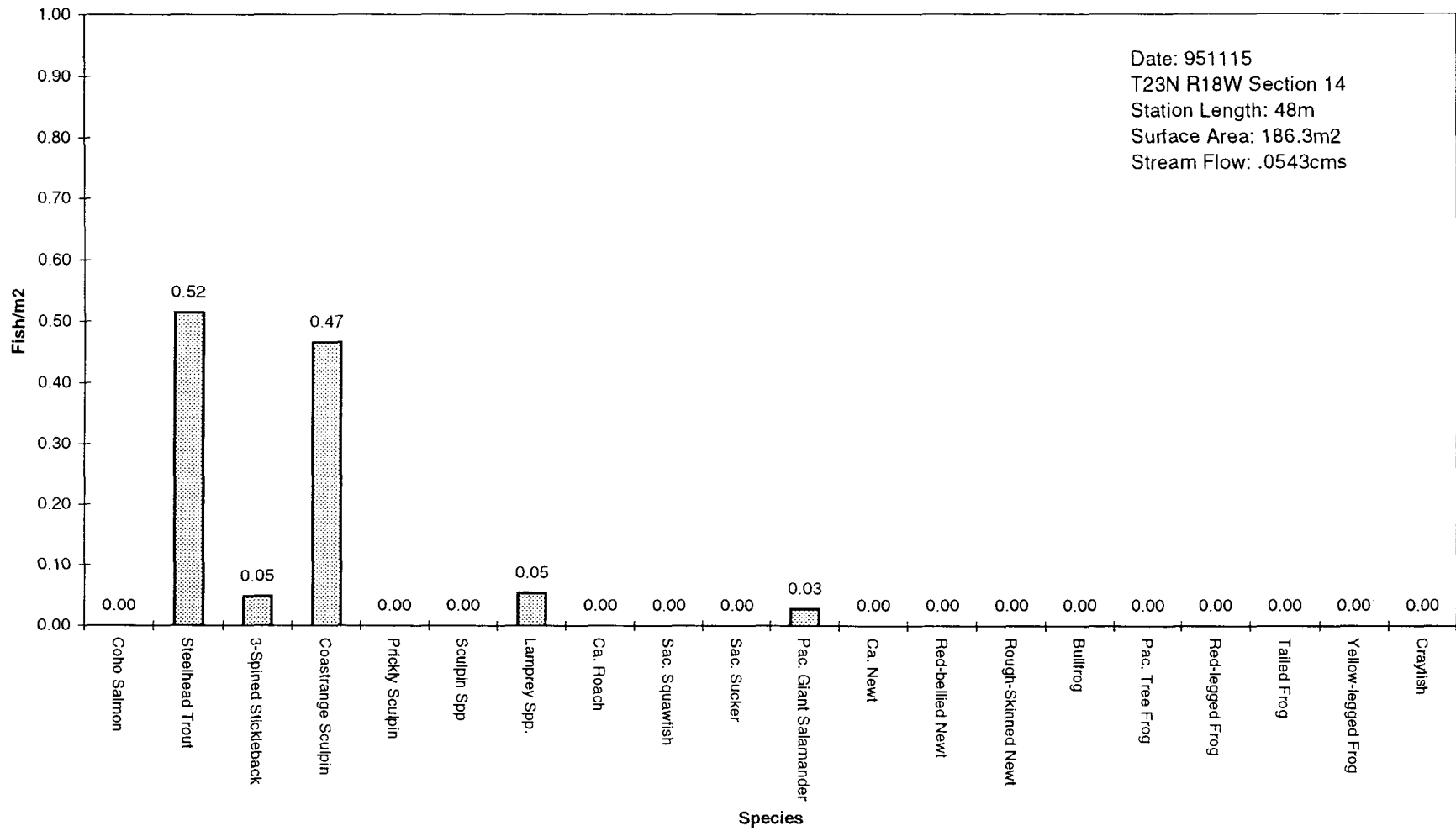
Sample Location: North Fork Usal Creek (USA2)

Date: 930708  
T23N R18W Section 14  
Station Length: 30m  
Surface Area: 211.5m<sup>2</sup>



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

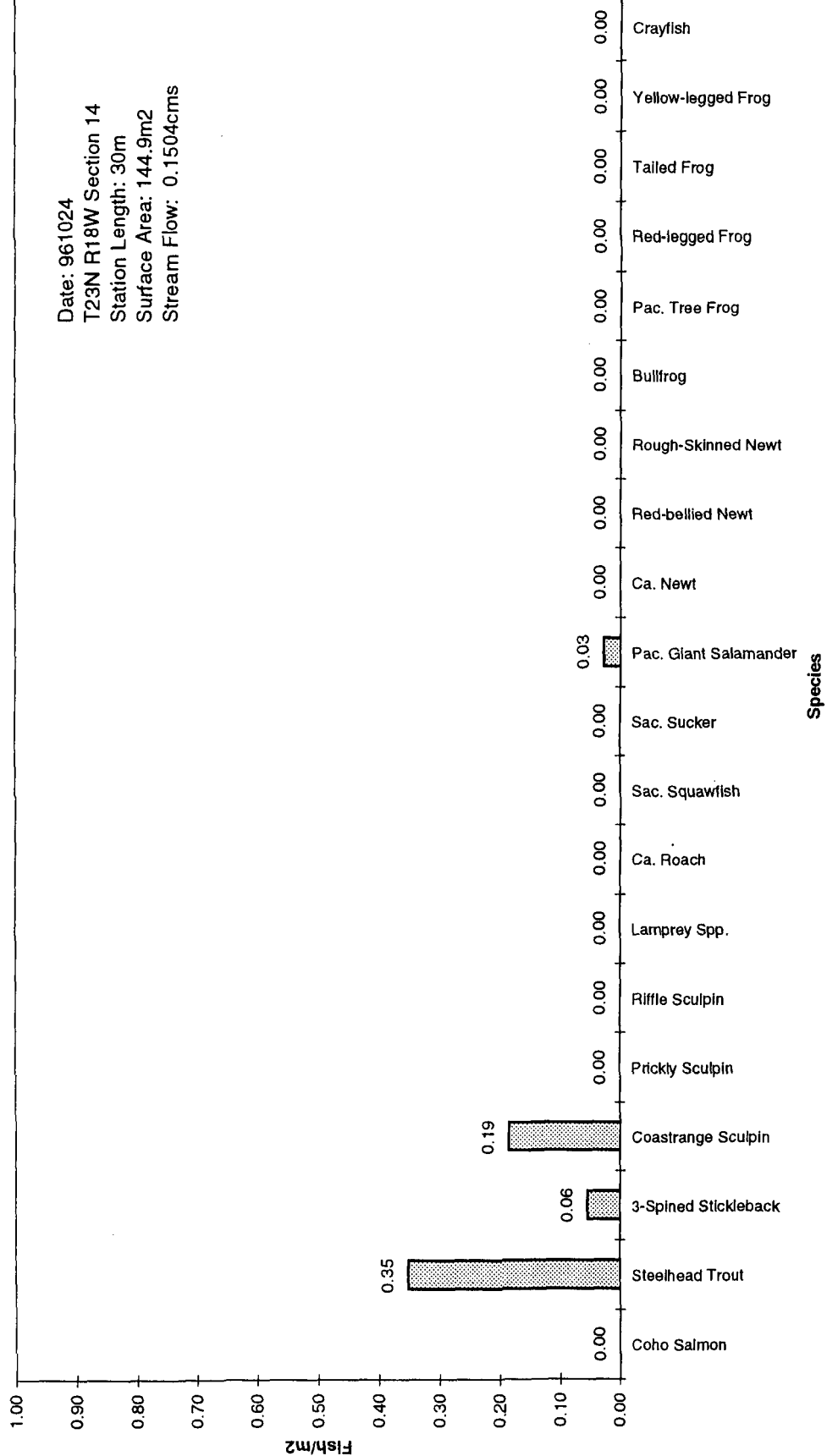
Sample Location: North Fork Usal Creek (USA2)



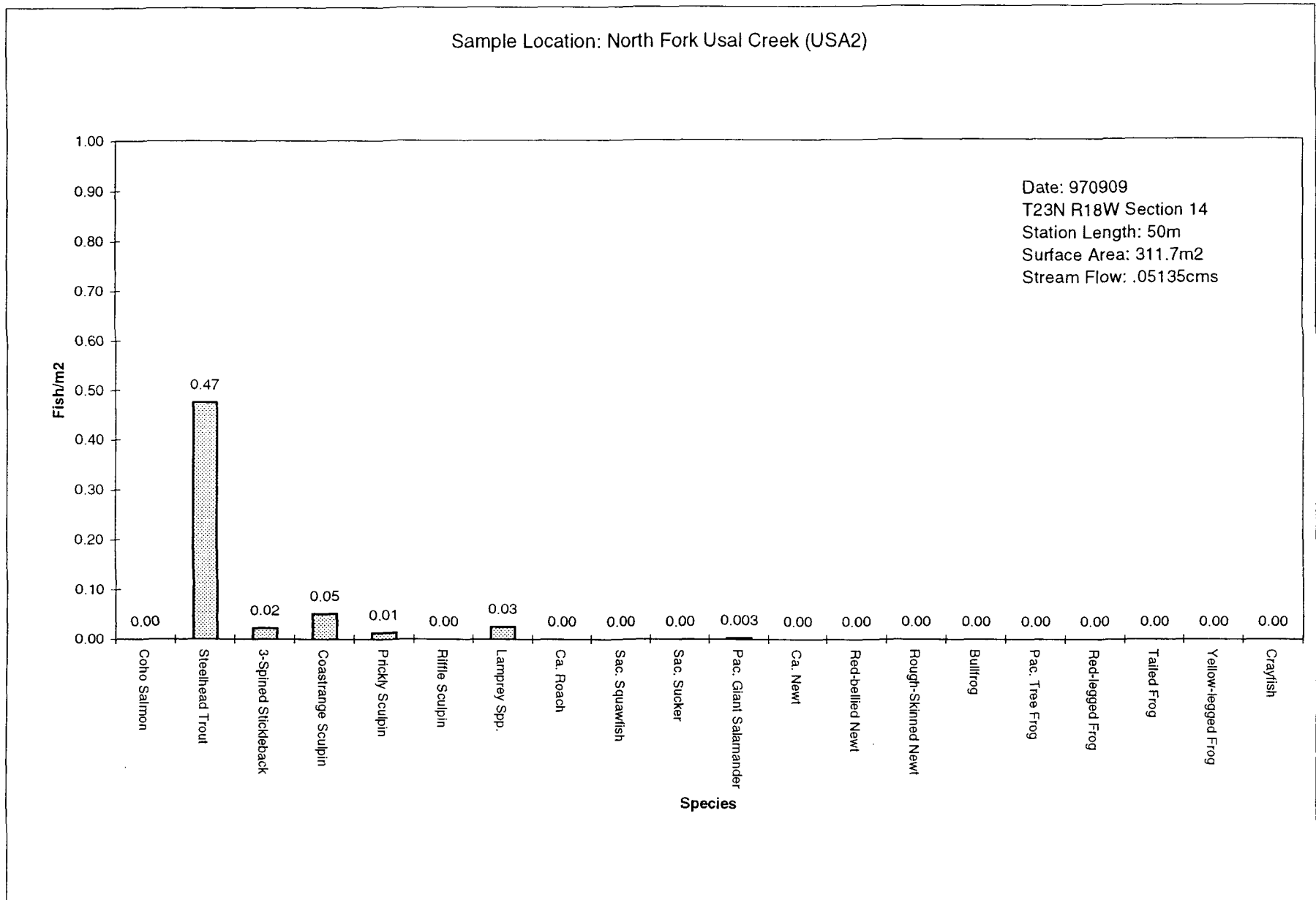
Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: North Fork Usal Creek (USA2)

Date: 961024  
T23N R18W Section 14  
Station Length: 30m  
Surface Area: 144.9m<sup>2</sup>  
Stream Flow: 0.1504cms



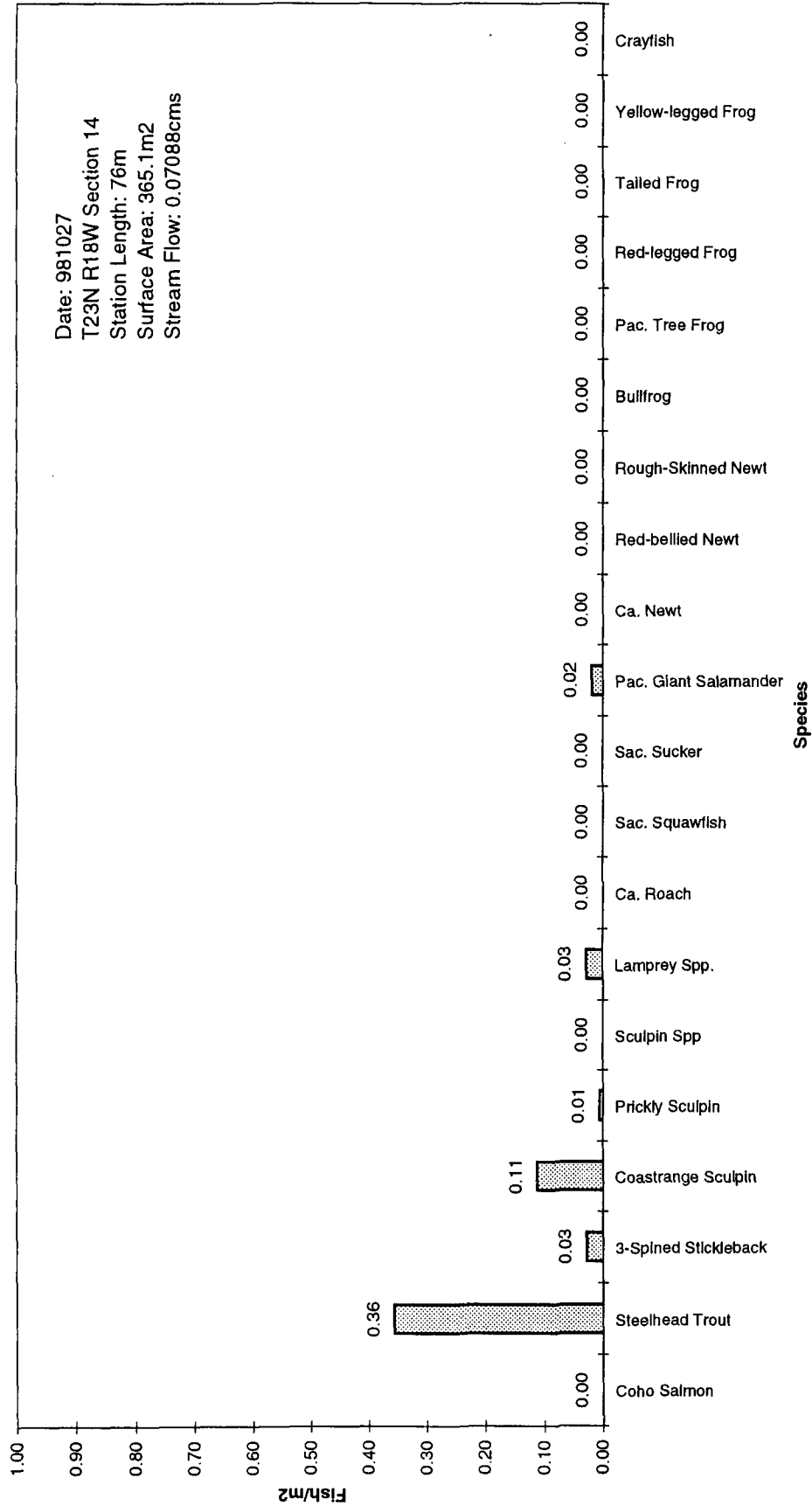
Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

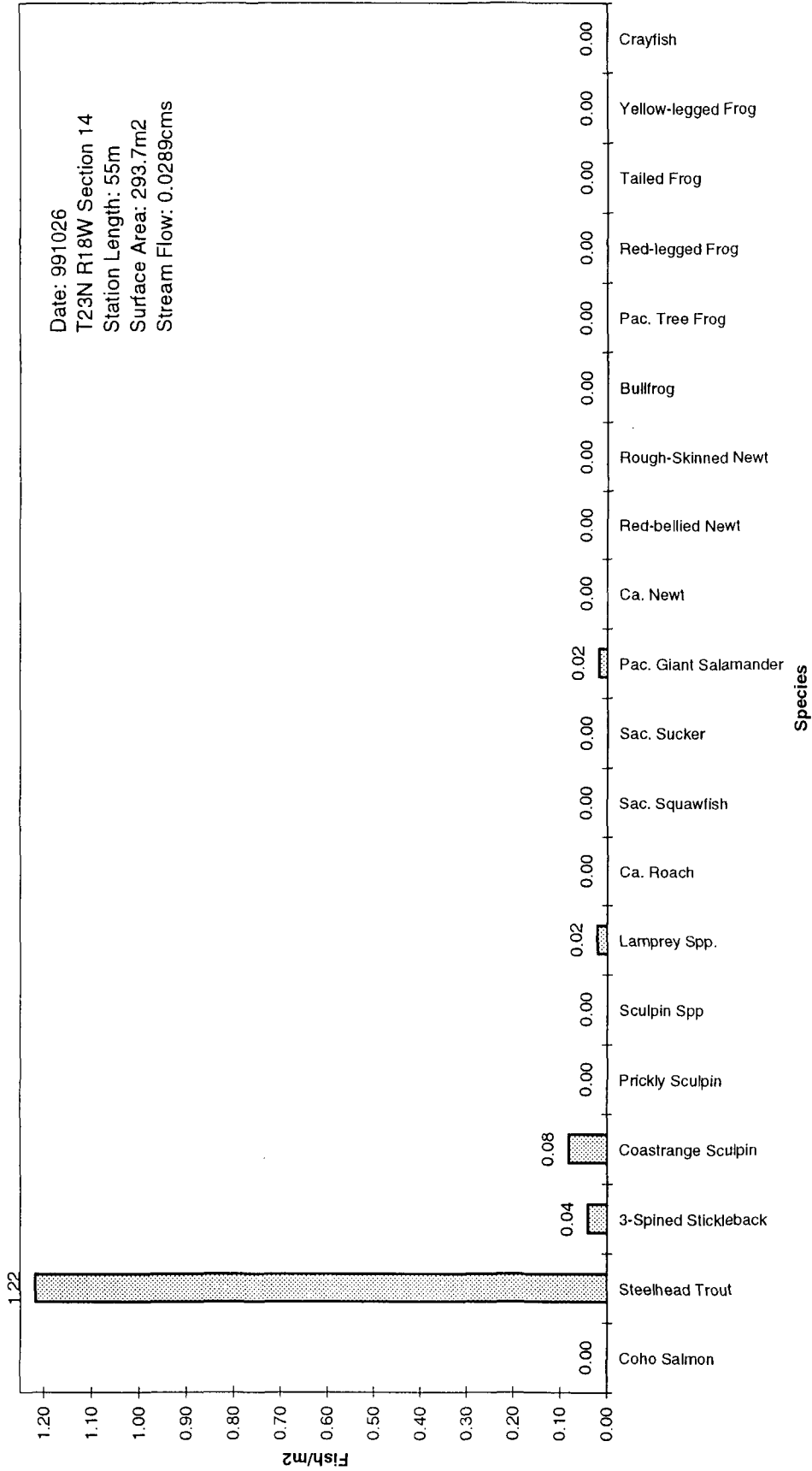
Sample Location: North Fork Usal Creek (USA2)

Date: 981027  
 T23N R18W Section 14  
 Station Length: 76m  
 Surface Area: 365.1m<sup>2</sup>  
 Stream Flow: 0.07088cms



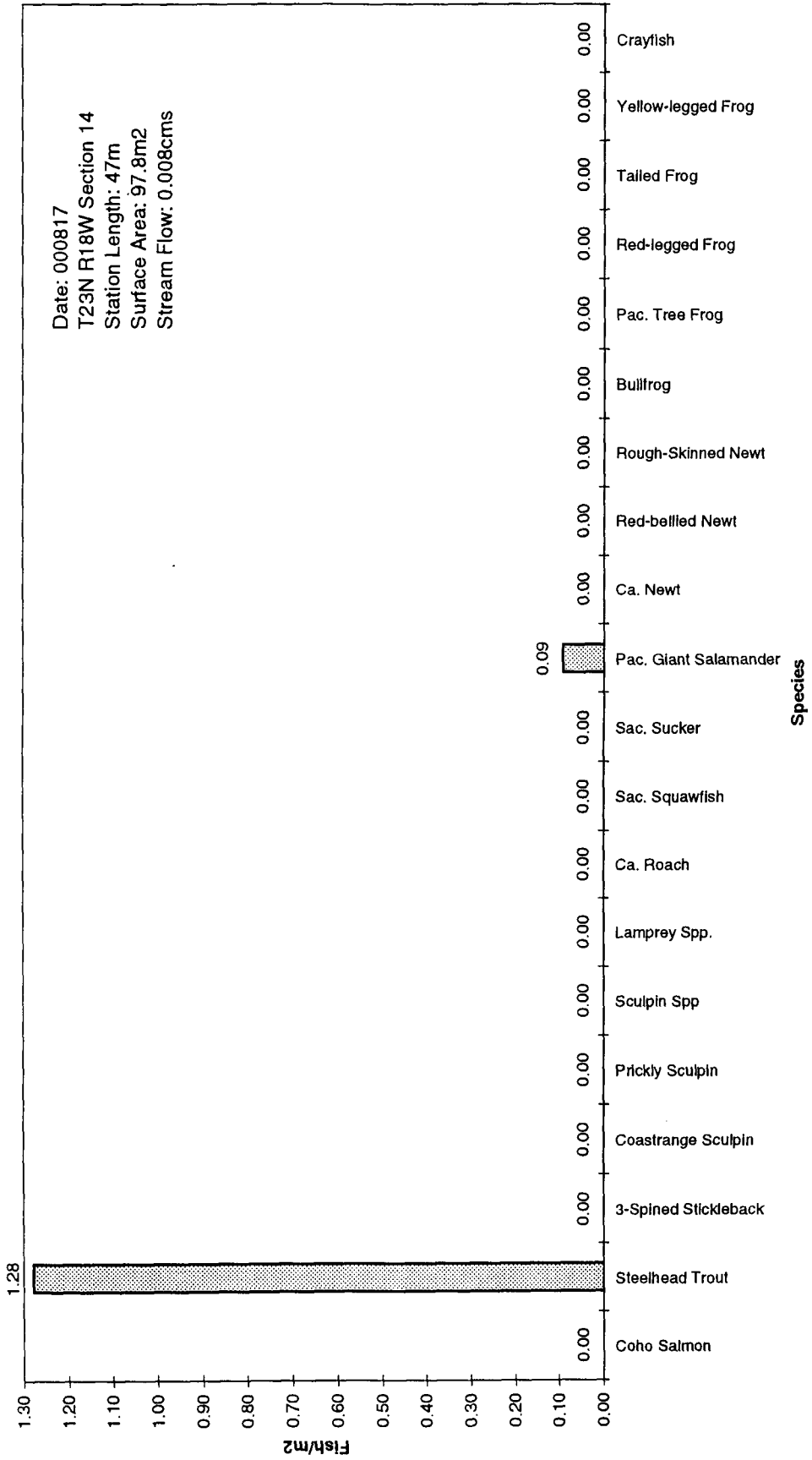
Estimated Aquatic Vertebrate Populations. The Timber Company, Fort Bragg, CA

Sample Location: North Fork Usal Creek (USA 2)



Estimated Aquatic Vertebrate Populations. Campbell Timberland Mgt., Fort Bragg, CA

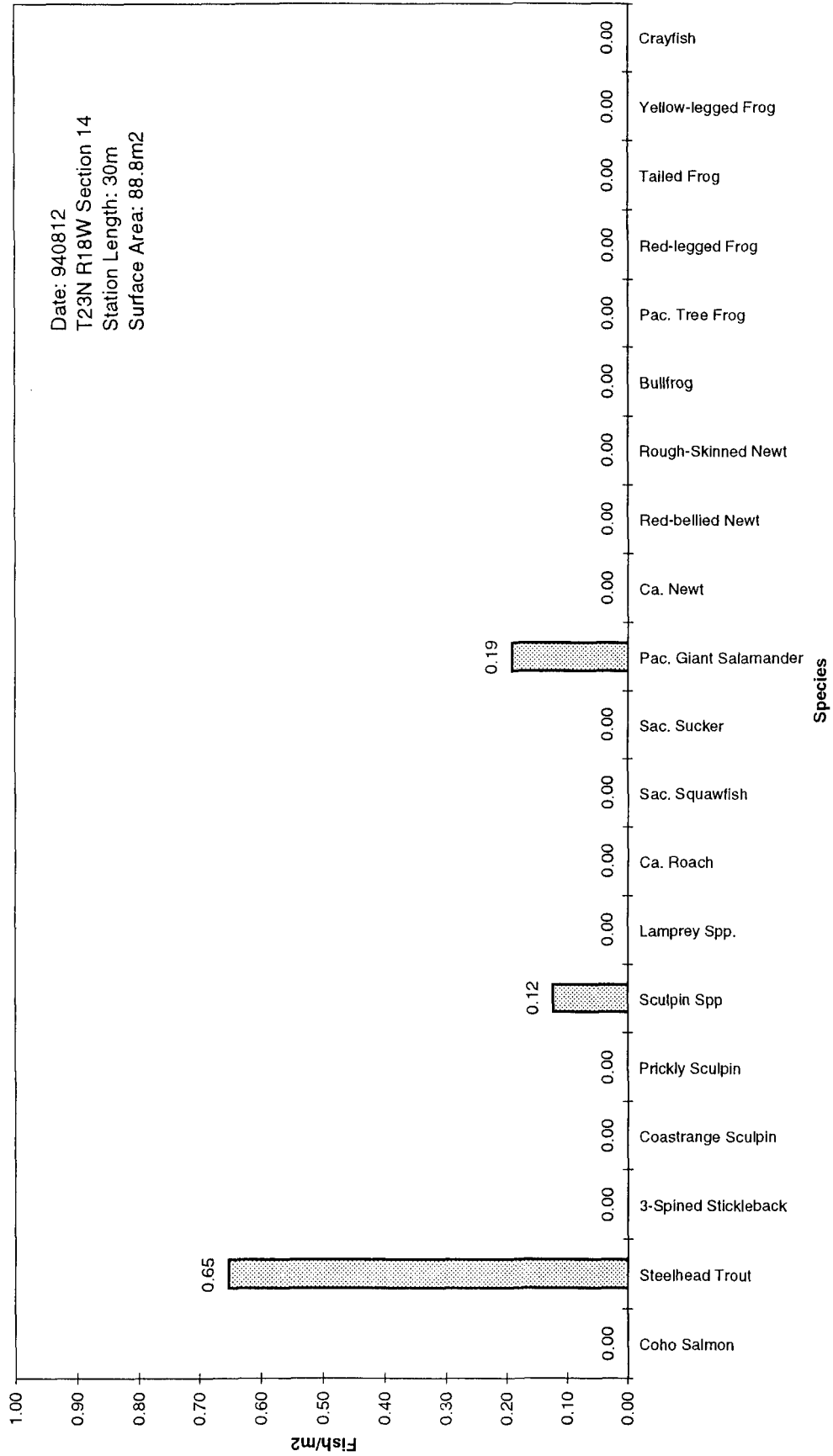
Sample Location: Soldier Creek (USA 3)





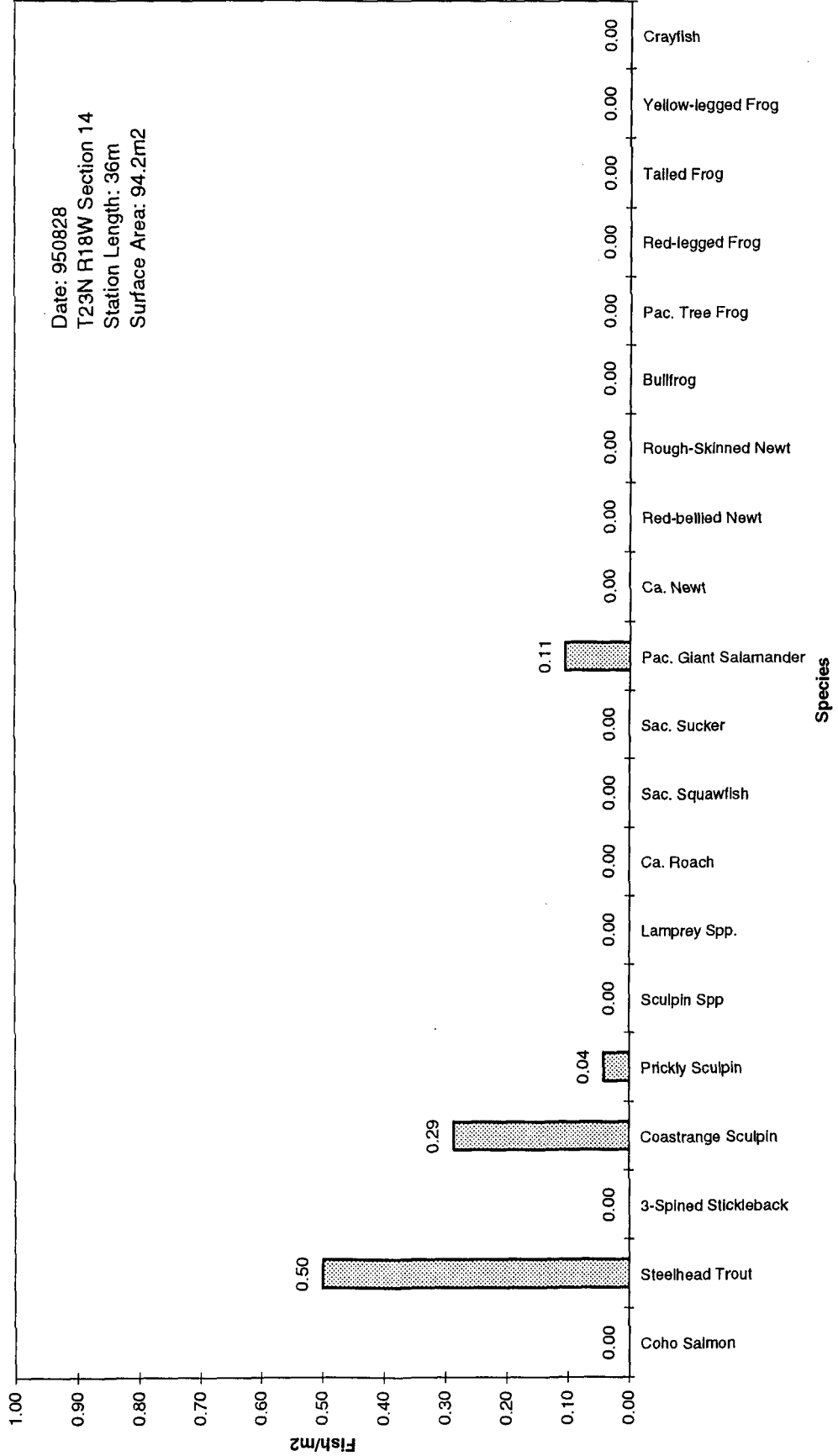
Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: Soldier Creek (USA3)



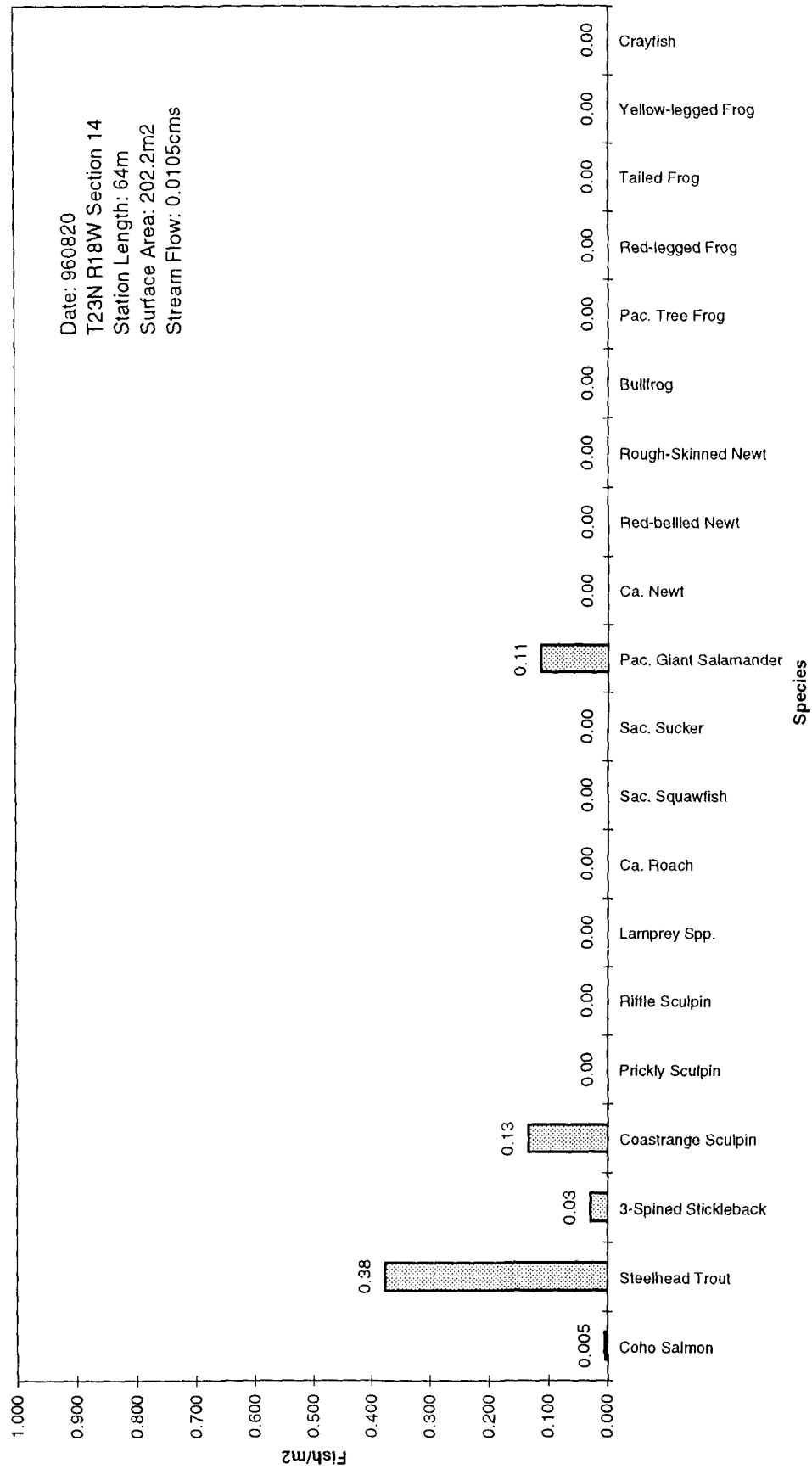
Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: Soldier Creek (USA3)



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

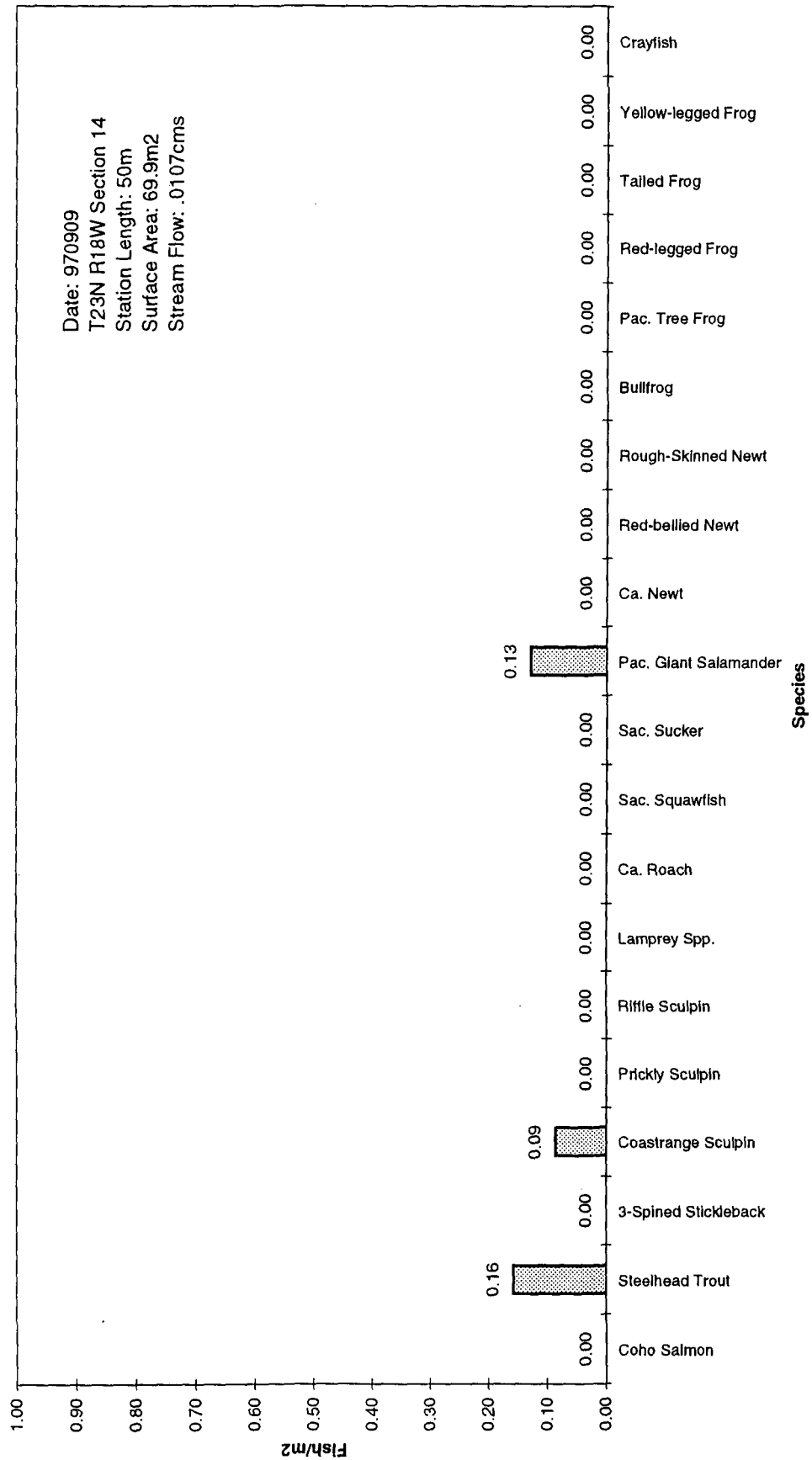
Sample Location: Soldier Creek (USA3)



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: Soldier Creek (USA3)

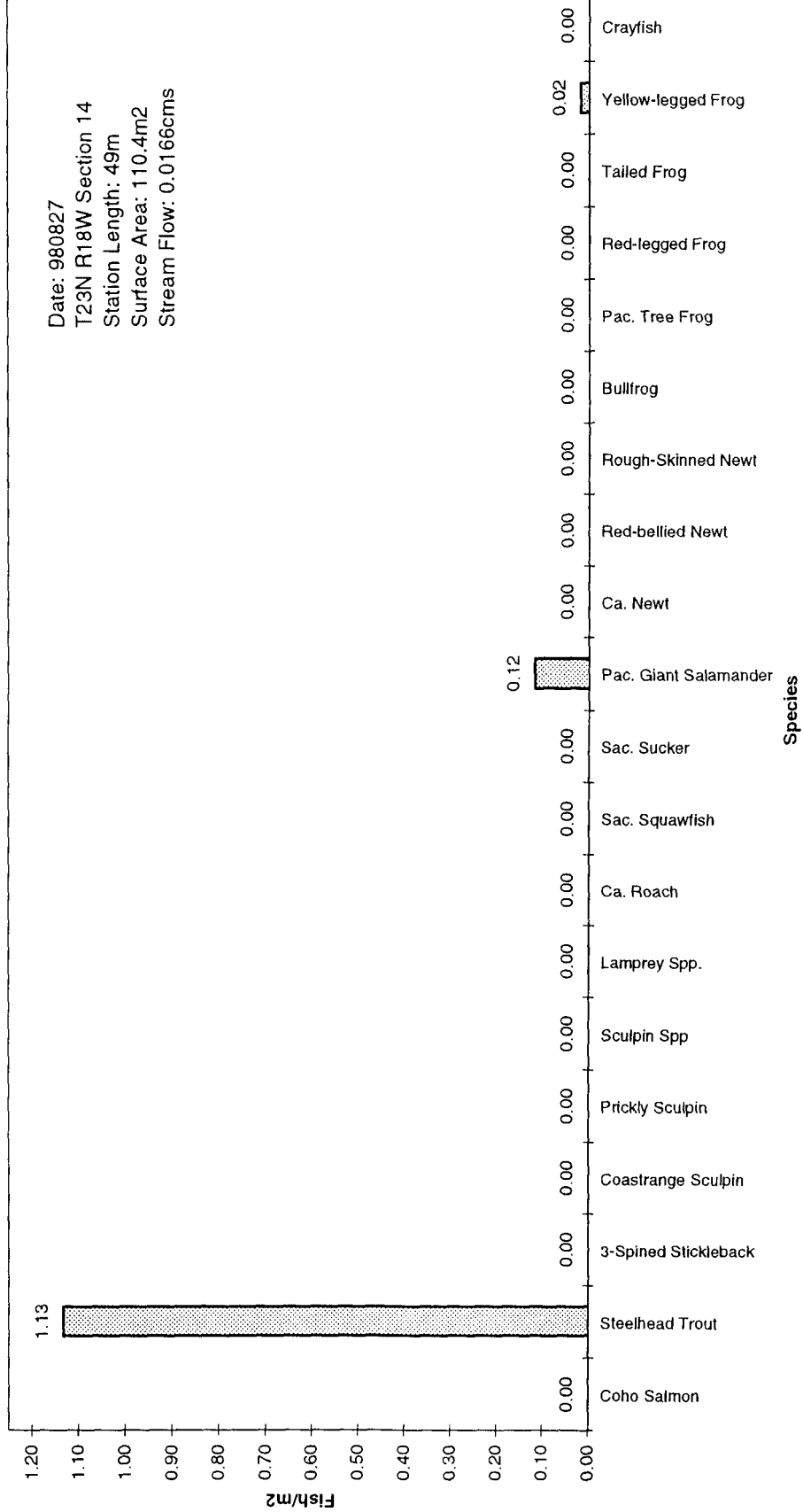
Date: 970909  
T23N R18W Section 14  
Station Length: 50m  
Surface Area: 69.9m<sup>2</sup>  
Stream Flow: .0107cms



Estimated Aquatic Vertebrate Populations. Georgia-Pacific West, Inc. Fort Bragg, CA

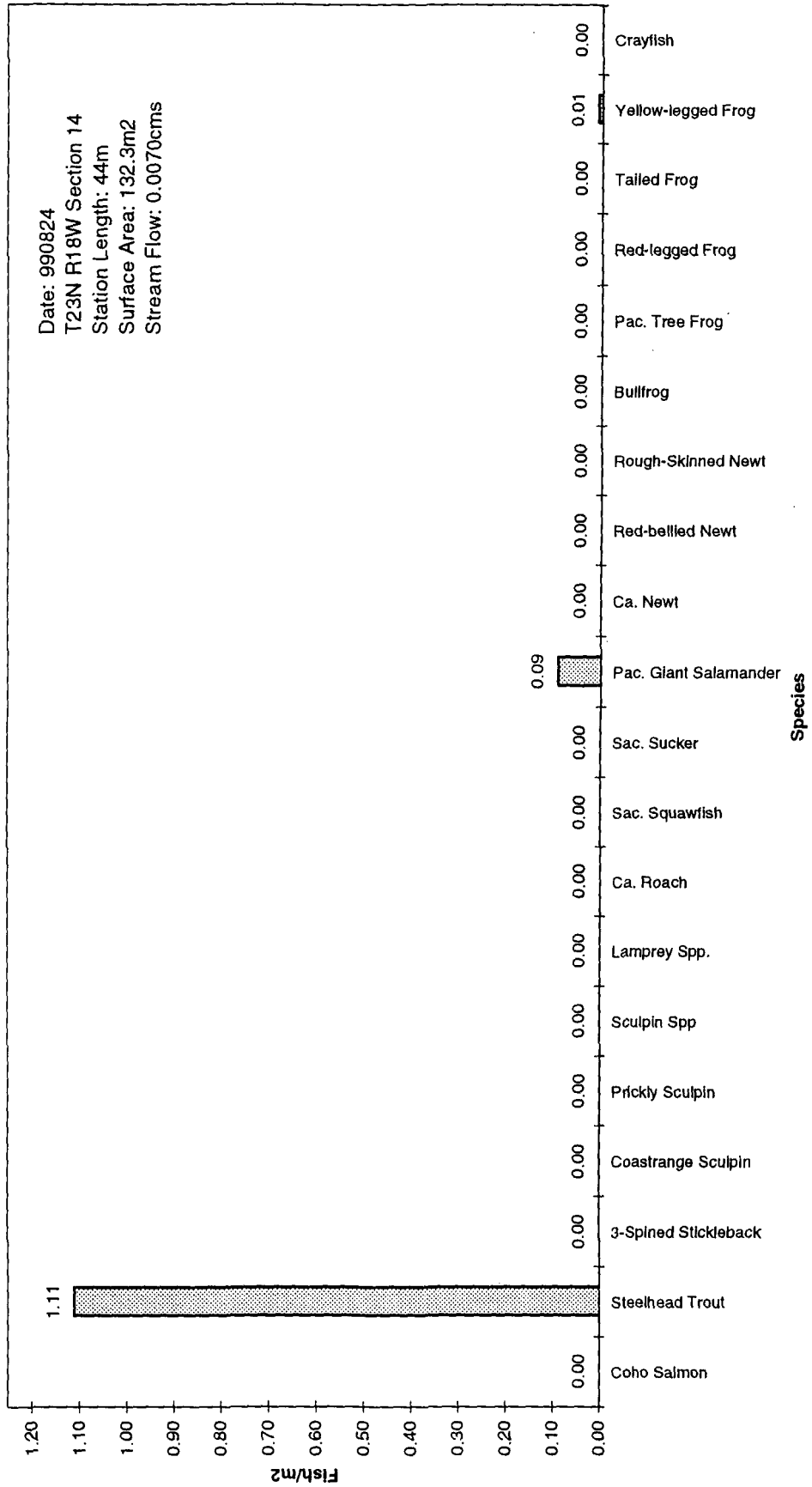
Sample Location: Soldier Creek (USA3)

Date: 980827  
 T23N R18W Section 14  
 Station Length: 49m  
 Surface Area: 110.4m<sup>2</sup>  
 Stream Flow: 0.0166cfs



Estimated Aquatic Vertebrate Populations. The Timber Company. Fort Bragg, CA

Sample Location: Soldier Creek (USA 3)



Location:	South Fork Usal Creek (USA 1)								961029	
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
	Station #1 samples				Station #2 samples					
Sieve size (mm)	1	2	3	4	1	2	3	4	Averages	Std. Dev.
63	8.9	0.0	19.0	0.0	6.0	9.5	22.0	9.6	9.4	7.92
31.5	15.4	16.5	15.8	15.1	13.1	11.8	14.5	10.2	14.1	2.16
16	16.9	16.1	12.9	13.6	11.3	5.7	11.6	9.9	12.3	3.57
8	13.9	13.5	10.1	10.7	9.4	10.4	11.9	9.6	11.2	1.72
4	12.9	13.3	8.3	7.4	12.5	11.7	11.0	12.7	11.2	2.22
2	9.5	10.4	6.6	7.1	12.5	11.5	9.3	9.6	9.6	2.00
1	10.3	11.4	6.3	6.8	8.8	11.8	5.5	8.4	8.7	2.37
0.85	1.7	3.1	1.4	1.2	1.3	3.7	1.0	1.2	1.8	1.00
<0.85	10.5	15.6	19.4	38.1	24.9	23.9	13.2	28.6	21.8	9.04
Geometric mean	8.8	5.7	9.2	3.3	4.8	4.5	11.4	4.5	6.5	2.88
d75	30.9	23.3	51.0	20.3	23.5	21.4	56.5	23.5	31.3	14.30
d25	2.5	1.5	1.7	0.6	0.9	0.9	3.1	0.7	1.5	0.93
Fredle index	2.5	1.5	1.7	0.5	0.9	0.9	2.7	0.8	1.4	0.80

151422SWR97SR701  
Giacomini Ranch Summer Dam Installation

151422SWR98SR702  
Dunn Creek Fish Weir Replacement

151422SWR93SR703  
Allied Signal, Inc. Bay Point Corner Lot Remediation  
Project

151422SWR97SR704  
Carmel River Bank Repairs & Restorations

151422SWR94SR705  
Port of Oakland Inner & Outer Harbor Dredging

151422SWR97SR706  
San Raphael "Across the Flats" Channel Dredging

151422SWR94SR707  
Regional General Permit Suction Dredge Mining

151422SWR96SR708  
Terwer Creek Erosion Repair Project

151422SWR98SR709  
Wickland Pipelines Wharf Construction

151422SWR96SR710  
Scott River Bridge Replacement Project

151422SWR96SR711  
Eel River Slope Protection

151422SWR96SR712  
Sonoma Creek Bridge Retrofit & Barrier Replacement  
Project

151422SWR00SR713  
Boyes Creek Bridge Repair

151422SWR97SR714  
State Rte.299 Slope Stabilization & Restoration Project

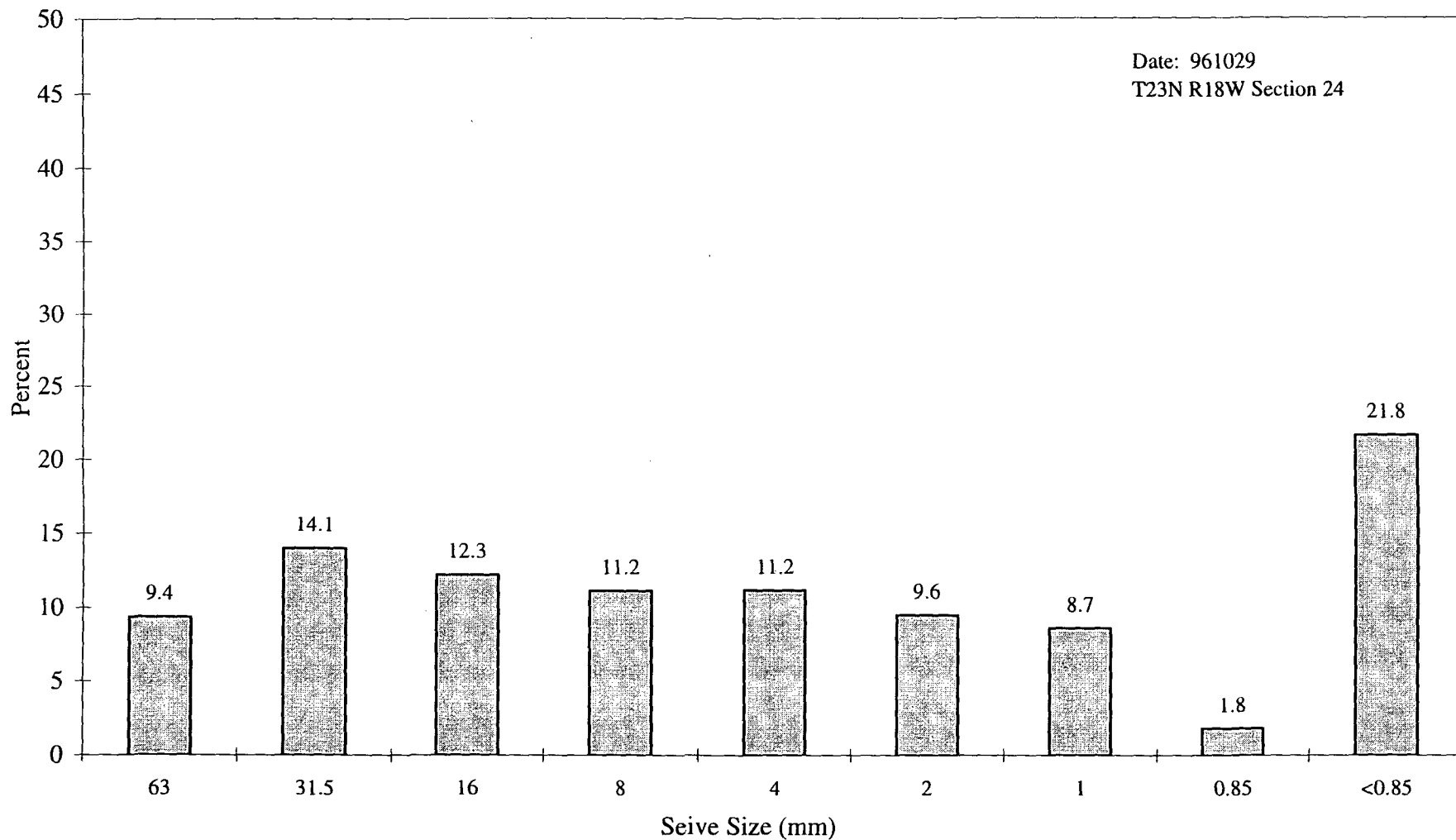


Location:	South Fork Usal Creek (USA1)								Date:	970909
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
	Station #1 samples				Station #2 samples					
Sieve size (mm)	1	2	3	4	1	2	3	4	Averages	Std. Dev.
63	22.1	16.1	22.4	0.0	0.0	10.9	0.0	0.0	8.9	10.2
31.5	11.7	21.7	10.5	22.5	21.1	24.0	14.8	18.3	18.1	5.1
16	19.0	28.8	16.1	16.5	22.2	17.7	21.9	15.7	19.7	4.4
8	13.6	8.8	16.8	24.3	16.6	13.0	17.0	18.9	16.1	4.5
4	9.9	9.1	8.7	12.0	9.0	8.4	10.2	12.5	10.0	1.5
2	5.8	3.0	3.8	4.1	8.3	6.9	7.4	8.9	6.0	2.2
1	5.4	3.3	4.4	3.6	9.0	6.5	10.2	8.7	6.4	2.6
0.85	1.9	0.5	1.0	0.6	1.1	0.4	2.7	2.1	1.3	0.9
<0.85	10.5	8.7	16.2	16.5	12.6	12.1	15.8	14.8	13.4	2.9
Geometric mean	13.1	17.1	11.4	8.4	8.3	11.7	6.4	6.7	10.4	3.6
d75	55.2	50.1	55.2	29.1	28.8	44.5	24.3	24.9	39.0	13.6
d25	4.5	8.4	3.8	4.1	2.5	3.7	1.6	1.9	3.8	2.1
Fredle index	3.7	7.0	3.0	3.1	2.5	3.4	1.7	1.9	3.3	1.7

Average McNeil Sediment Samples (eight samples)  
Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: South Fork Usal Creek (USA1)

Date: 961029  
T23N R18W Section 24

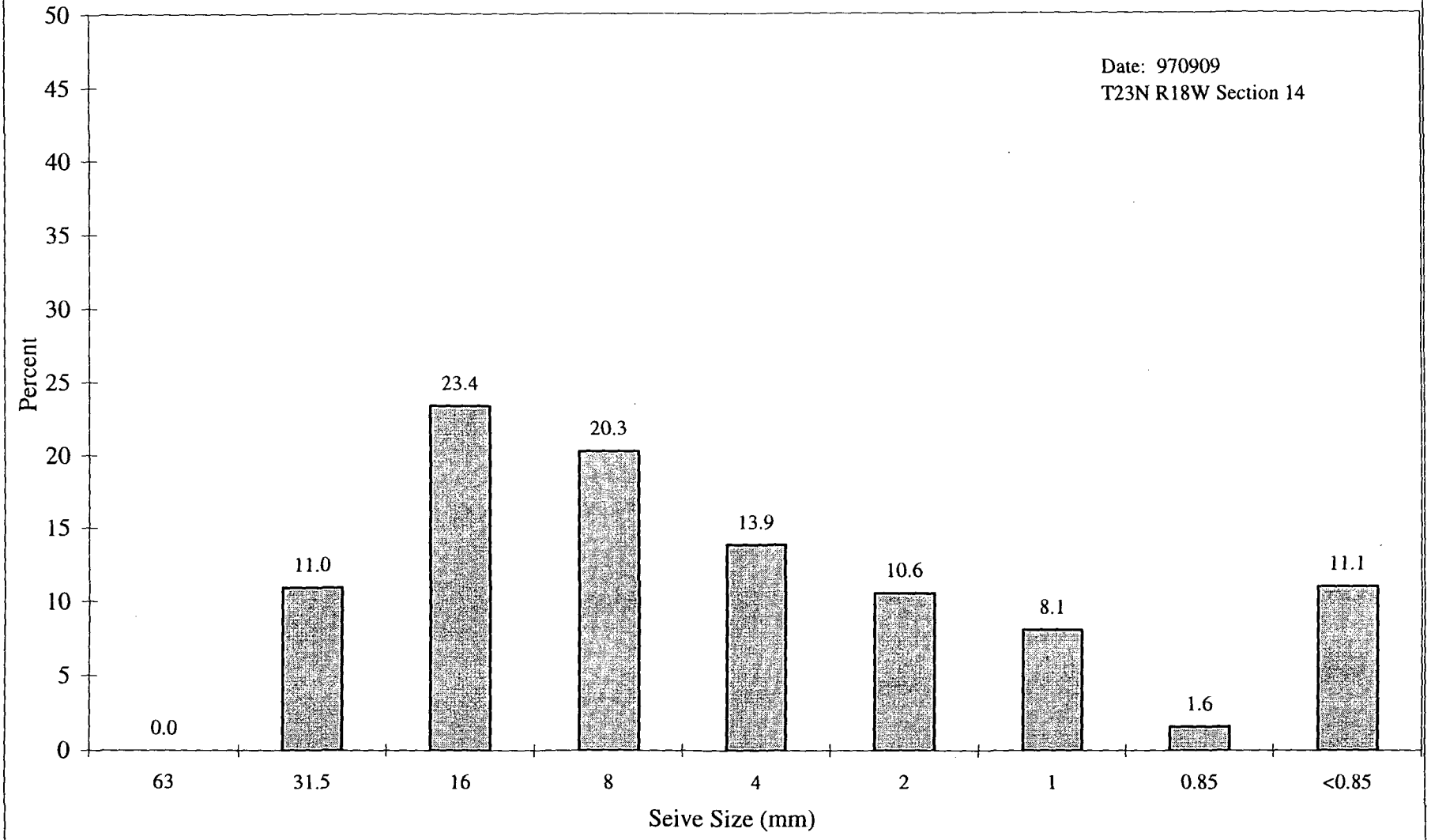


Location:	North Fork Usal Creek (USA2)								Date:	970909	
Results here: samples by percent, geometric means, Fredle indices, and percent fines:											
Sieve size (mm)	Station #1 samples				Station #2 samples				Averages	Std. Dev.	
	1	2	3	4	1	2	3	4			
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31.5	2.4	4.3	4.2	4.0	13.7	21.4	7.7	29.9	11.0	10.0	
16	14.0	18.8	15.6	17.1	31.6	29.4	36.5	24.2	23.4	8.3	
8	22.8	21.0	20.9	18.9	19.2	16.0	26.7	17.1	20.3	3.4	
4	17.3	13.7	16.3	17.8	13.7	12.1	8.3	11.9	13.9	3.2	
2	11.6	13.3	12.1	12.4	9.8	8.2	11.3	6.4	10.6	2.3	
1	11.6	10.9	12.8	12.4	4.8	5.7	3.6	3.3	8.1	4.2	
0.85	2.6	2.1	2.4	2.7	0.9	1.1	0.6	0.5	1.6	0.9	
<0.85	18.0	15.9	15.6	14.7	6.3	6.1	5.4	6.8	11.1	5.4	
Geometric mean	4.2	4.9	4.6	4.7	10.2	11.4	10.6	13.2	7.9	3.7	
d75	13.0	15.3	14.0	14.3	26.0	29.6	24.2	36.7	21.6	8.8	
d25	1.4	1.6	1.5	1.6	4.9	5.3	6.0	6.7	3.6	2.3	
Fredle index	1.4	1.6	1.5	1.6	4.5	4.8	5.3	5.6	3.3	1.9	

Average McNeil Sediment Samples (eight samples)  
Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: North Fork Usal Creek (USA2)

Date: 970909  
T23N R18W Section 14

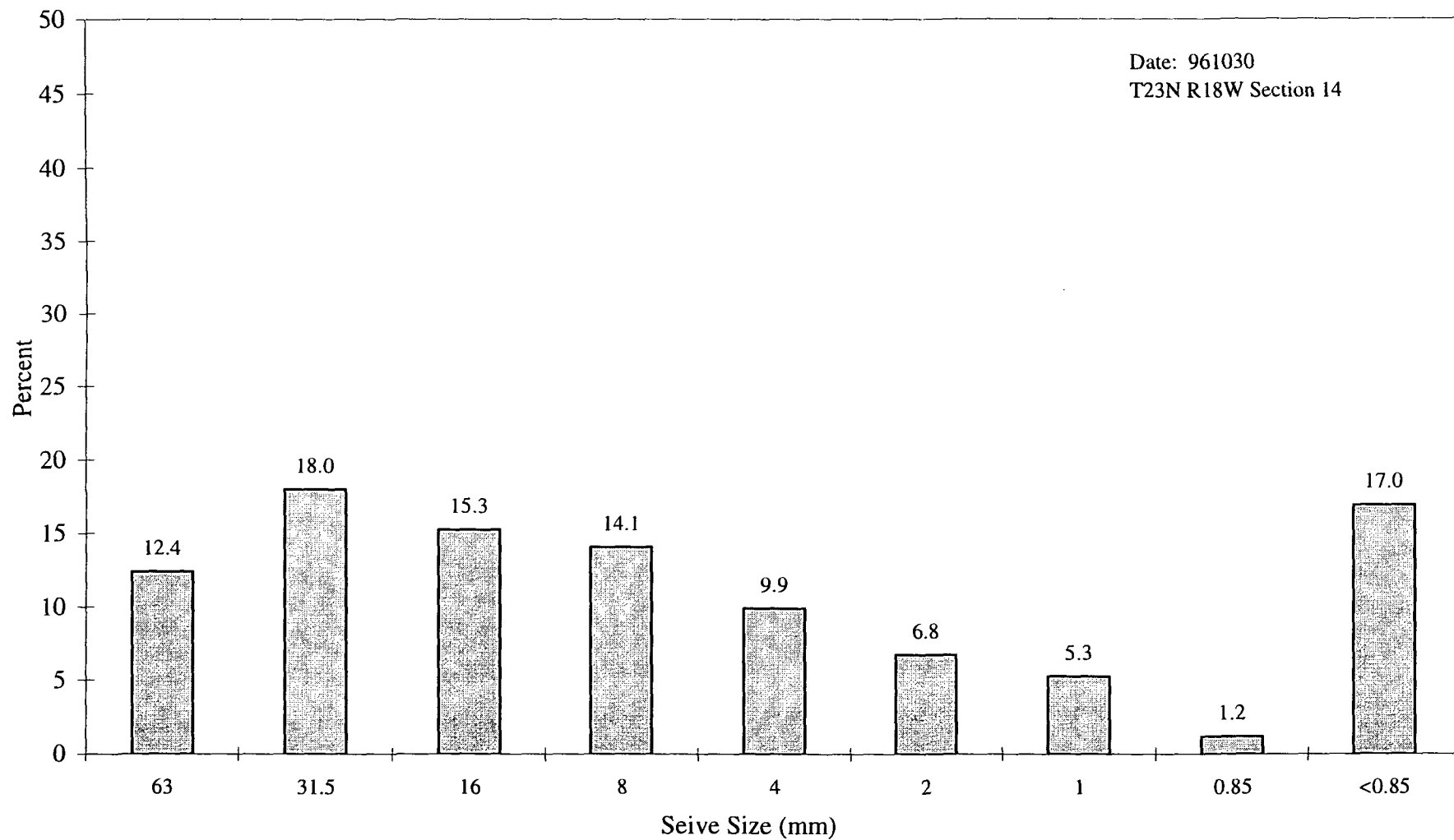


Location: North Fork Usal Creek (USA2)									961030	
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
Sieve size (mm)	Station #1 samples				Station #2 samples				Averages	Std. Dev.
	1	2	3	4	1	2	3	4		
63	9.7	13.6	36.9	27.1	6.5	0.0	5.5	0.0	12.4	13.17
31.5	19.8	15.7	6.7	13.0	11.3	36.0	20.8	21.0	18.0	8.83
16	11.3	15.4	8.8	10.3	21.9	15.1	17.9	21.8	15.3	5.00
8	11.0	9.1	10.8	9.2	23.1	11.3	20.1	18.4	14.1	5.51
4	10.1	8.5	8.8	9.0	11.5	7.5	12.2	11.9	9.9	1.74
2	8.2	9.7	5.9	6.2	5.1	6.7	4.2	8.1	6.8	1.79
1	7.9	7.6	4.3	6.0	3.7	5.9	2.4	4.5	5.3	1.92
0.85	1.4	1.8	3.4	0.6	0.5	0.2	1.0	0.8	1.2	1.02
<0.85	20.7	18.7	14.3	18.6	16.6	17.3	15.9	13.6	17.0	2.36
Geometric mean	7.1	7.9	13.5	10.9	8.4	9.3	9.5	8.7	9.4	2.00
d75	38.7	40.1	83.9	68.1	26.4	41.1	33.5	28.7	45.1	20.26
d25	1.4	1.6	3.0	2.0	3.7	2.5	4.5	3.5	2.8	1.10
Fredle index	1.3	1.6	2.6	1.9	3.2	2.3	3.5	3.0	2.4	0.78

Average McNeil Sediment Samples (eight samples)  
Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: North Fork Usal Creek (USA2)

Date: 961030  
T23N R18W Section 14

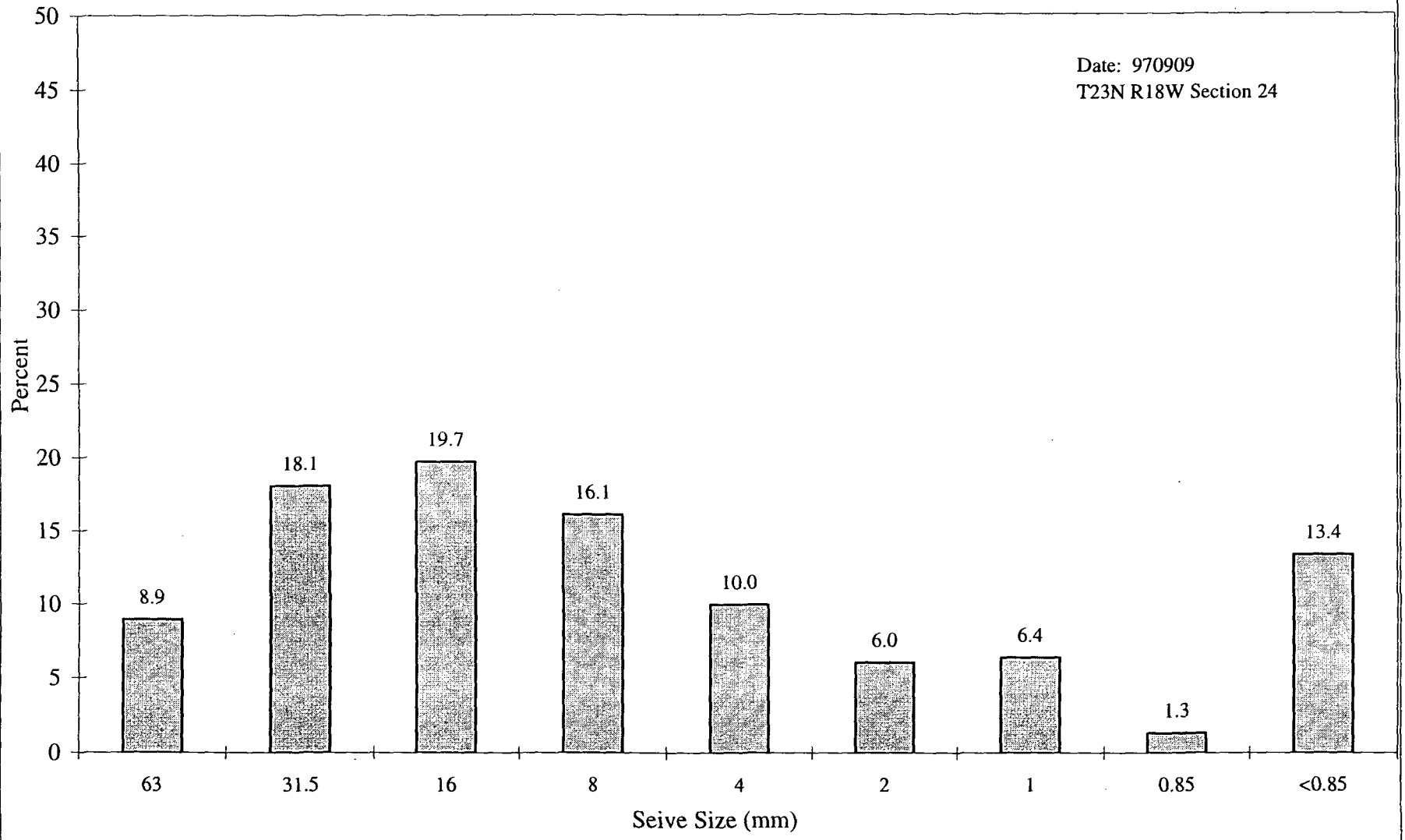


Location:	South Fork Usal Creek (USA1)								Date:	970909
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
	Station #1 samples				Station #2 samples					
Sieve size (mm)	1	2	3	4	1	2	3	4	Averages	Std. Dev.
63	22.1	16.1	22.4	0.0	0.0	10.9	0.0	0.0	8.9	10.2
31.5	11.7	21.7	10.5	22.5	21.1	24.0	14.8	18.3	18.1	5.1
16	19.0	28.8	16.1	16.5	22.2	17.7	21.9	15.7	19.7	4.4
8	13.6	8.8	16.8	24.3	16.6	13.0	17.0	18.9	16.1	4.5
4	9.9	9.1	8.7	12.0	9.0	8.4	10.2	12.5	10.0	1.5
2	5.8	3.0	3.8	4.1	8.3	6.9	7.4	8.9	6.0	2.2
1	5.4	3.3	4.4	3.6	9.0	6.5	10.2	8.7	6.4	2.6
0.85	1.9	0.5	1.0	0.6	1.1	0.4	2.7	2.1	1.3	0.9
<0.85	10.5	8.7	16.2	16.5	12.6	12.1	15.8	14.8	13.4	2.9
Geometric mean	13.1	17.1	11.4	8.4	8.3	11.7	6.4	6.7	10.4	3.6
d75	55.2	50.1	55.2	29.1	28.8	44.5	24.3	24.9	39.0	13.6
d25	4.5	8.4	3.8	4.1	2.5	3.7	1.6	1.9	3.8	2.1
Fredle index	3.7	7.0	3.0	3.1	2.5	3.4	1.7	1.9	3.3	1.7

Average McNeil Sediment Samples (eight samples)  
Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: South Fork Usal Creek (USA1)

Date: 970909  
T23N R18W Section 24

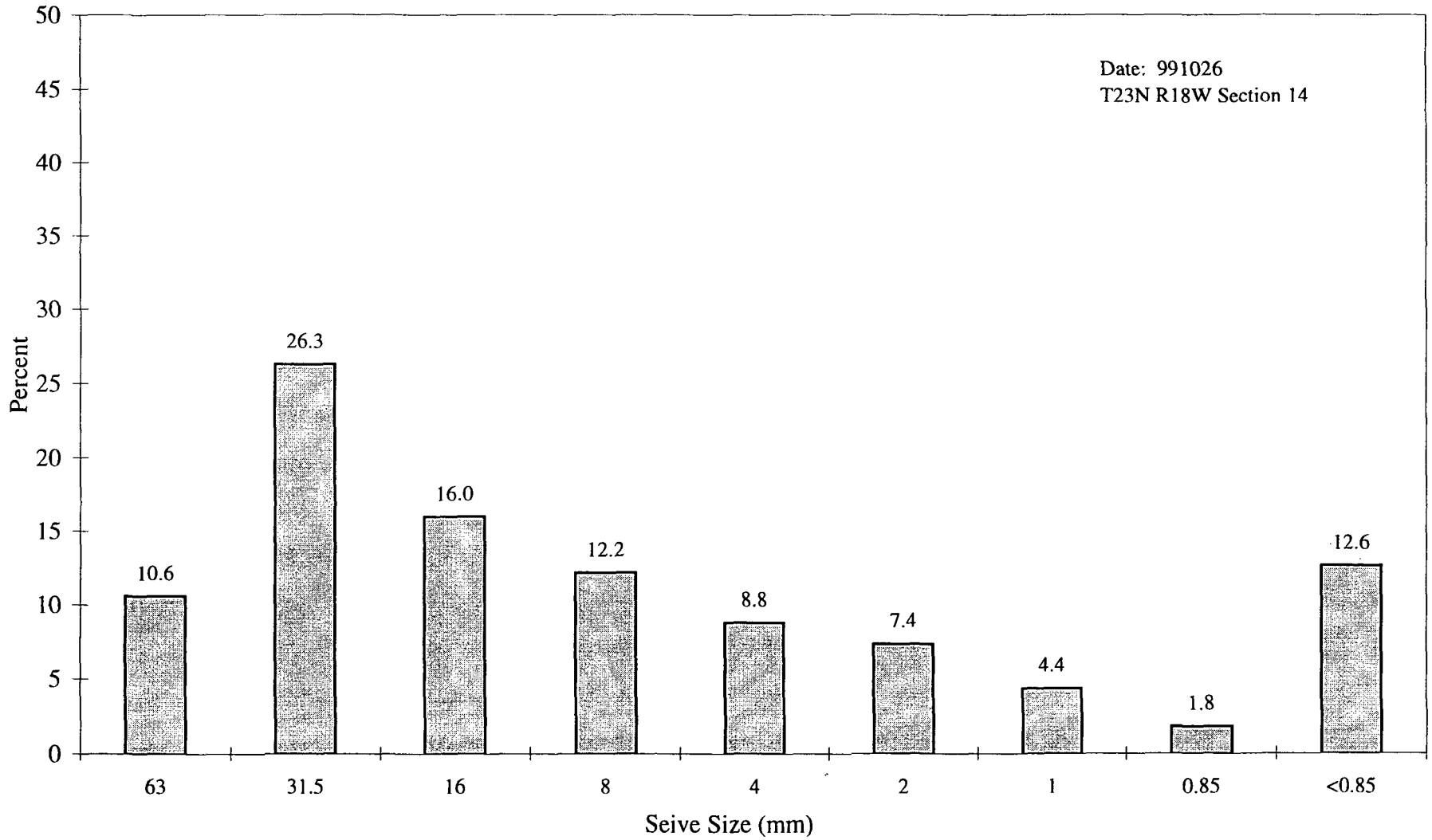




Location: North Fork Usal Creek								Date:	991026	
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
	Station #1 samples				Station #2 samples					
Sieve size (mm)	1	2	3	4	1	2	3	4	Averages	Std. Dev.
63	23.7	7.0	5.3	9.6	15.7	10.4	13.0	0.0	10.6	7.2
31.5	25.7	35.4	21.5	32.1	22.6	22.4	26.1	24.6	26.3	5.0
16	13.2	12.1	10.4	11.2	17.2	20.5	22.7	20.6	16.0	4.9
8	10.0	8.8	11.2	9.5	13.4	15.8	12.1	16.5	12.2	2.9
4	8.7	6.4	11.0	7.8	7.8	10.4	6.7	11.5	8.8	2.0
2	5.8	9.7	10.3	9.1	6.3	5.2	5.6	6.9	7.4	2.0
1	3.9	1.5	7.6	4.8	5.2	4.1	3.4	4.5	4.4	1.7
0.85	2.3	3.5	2.1	1.7	1.3	1.1	0.7	1.7	1.8	0.8
<0.85	6.6	15.6	20.7	14.2	10.5	10.0	9.6	13.6	12.6	4.4
Geometric mean	18.5	10.8	6.3	11.0	13.5	12.9	15.4	9.0	12.2	3.8
d75	61.5	47.0	34.2	47.9	50.0	42.5	48.6	31.2	45.3	9.5
d25	6.9	2.9	1.3	2.9	4.9	5.7	7.4	3.5	4.4	2.1
Fredle index	6.2	2.7	1.2	2.7	4.2	4.7	6.0	3.0	3.8	1.7

Average McNeil Sediment Samples (eight samples)  
The Timber Company, Fort Bragg, CA

Sample Location: North Fork Usal Creek (USA 2)

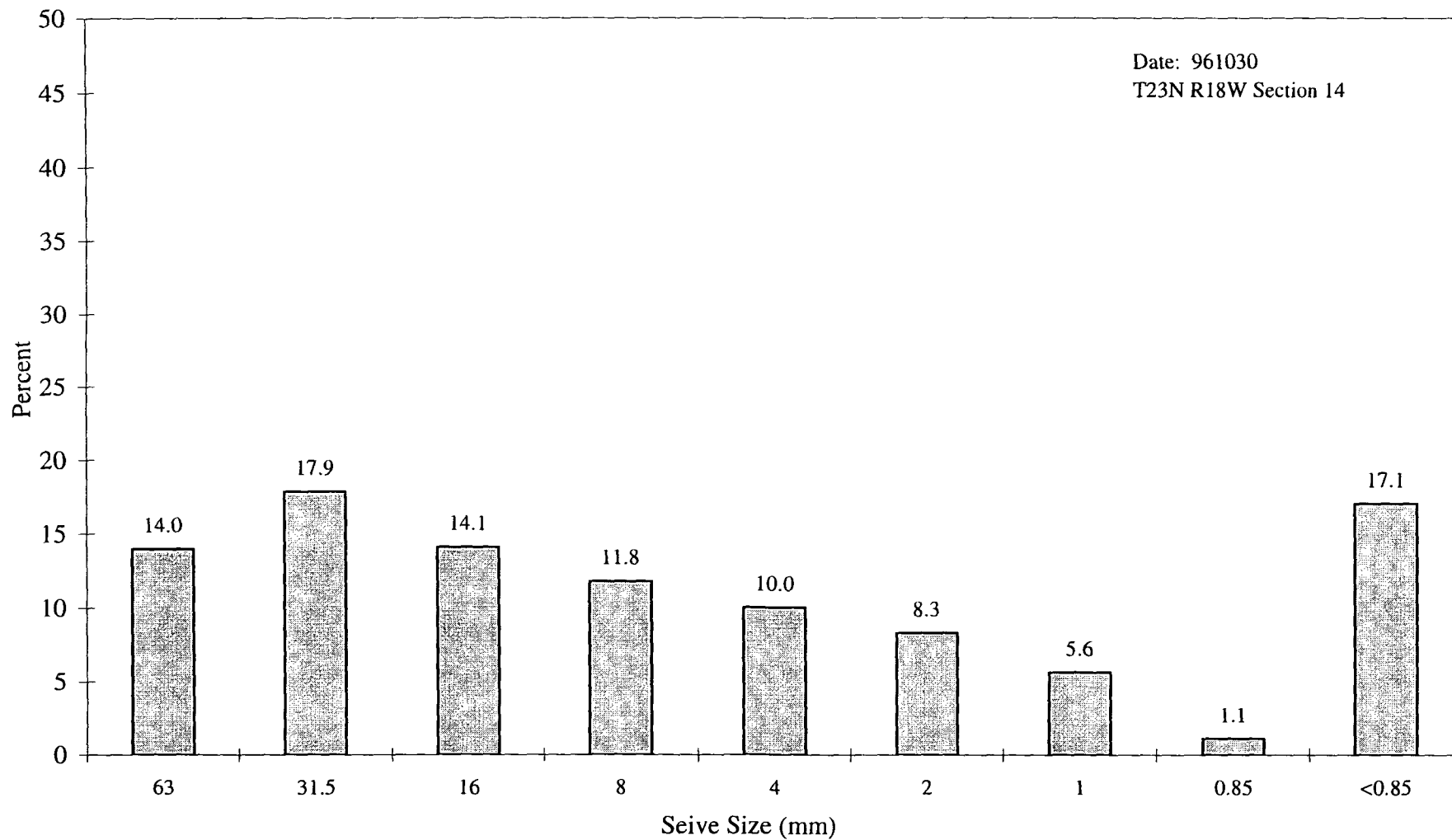


Location:	Soldier Creek (USA3)									961030
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
	Station #1 samples				Station #2 samples					
Sieve size (mm)	1	2	3	4	1	2	3	4	Averages	Std. Dev.
63	19.8	13.2	18.1	12.7	21.7	17.8	0.0	8.6	14.0	7.09
31.5	19.5	16.5	19.6	16.2	8.7	18.4	20.4	23.8	17.9	4.43
16	7.1	9.8	16.1	14.8	16.9	16.8	13.6	18.0	14.1	3.83
8	13.6	12.6	9.2	11.5	11.2	10.6	12.7	13.2	11.8	1.49
4	9.6	11.9	9.7	12.5	10.9	7.6	8.5	9.6	10.0	1.65
2	7.4	9.9	7.1	8.9	9.6	7.0	9.1	7.6	8.3	1.18
1	3.7	6.6	0.7	6.6	7.3	5.4	9.6	5.1	5.6	2.64
0.85	1.0	1.3	1.3	1.1	1.0	0.8	1.8	0.5	1.1	0.39
<0.85	18.3	18.2	18.1	15.6	12.7	15.7	24.3	13.6	17.1	3.63
Geometric mean	10.3	7.8	11.2	8.8	10.6	11.2	5.0	10.7	9.4	2.15
d75	54.6	40.6	52.0	39.0	51.1	50.7	26.2	41.3	44.4	9.47
d25	2.6	1.8	3.3	2.4	2.8	2.9	0.9	3.5	2.5	0.85
Fredle index	2.2	1.7	2.8	2.2	2.5	2.7	0.9	3.1	2.3	0.70

Average McNeil Sediment Samples (eight samples)  
Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: Soldier Creek (USA3)

Date: 961030  
T23N R18W Section 14

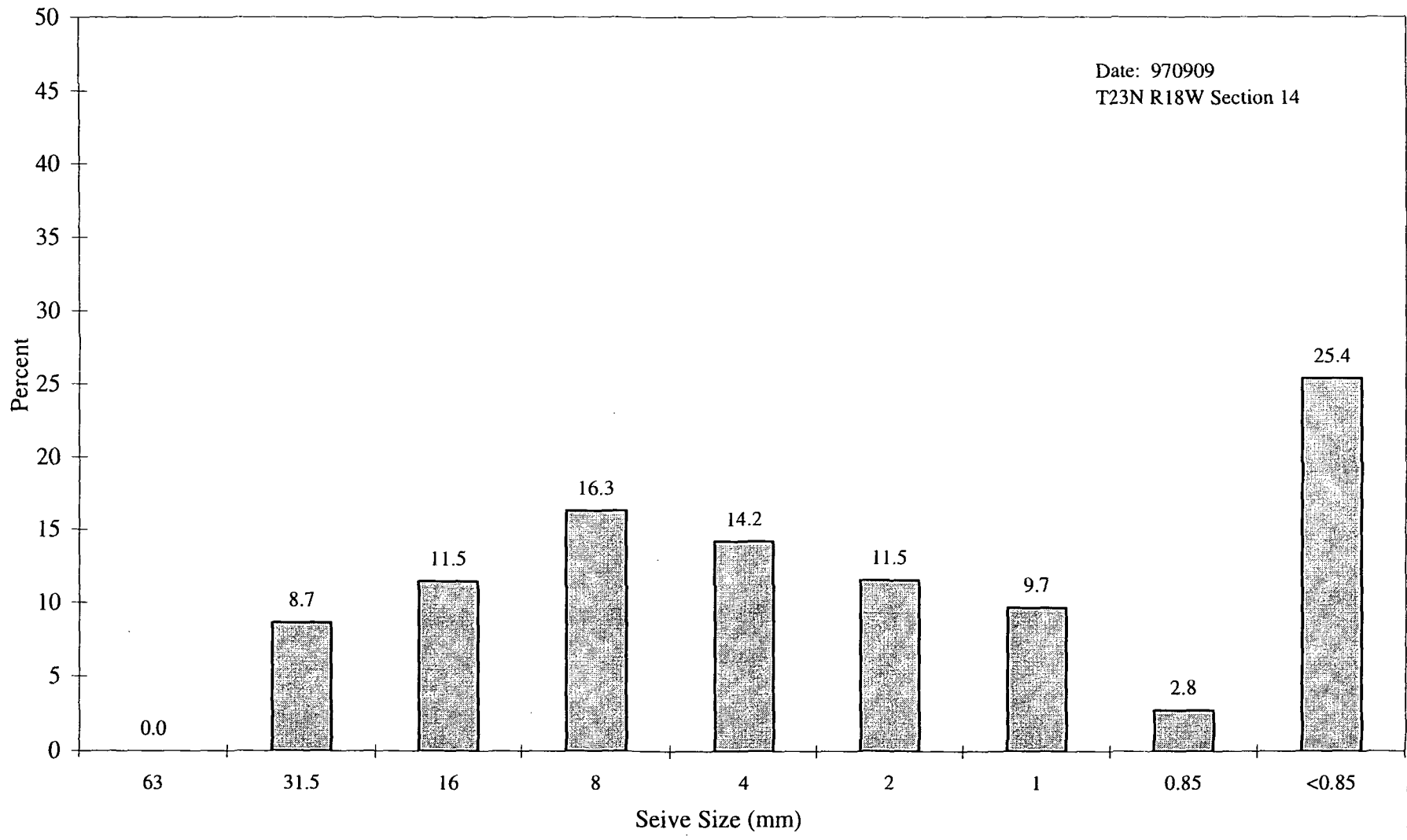


Location: Soldier Creek (USA3)									Date: 970909	
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
Sieve size (mm)	Station #1 samples				Station #2 samples				Averages	Std. Dev.
	1	2	3	4	1	2	3	4		
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31.5	3.0	6.6	19.6	12.3	2.5	12.2	2.0	11.1	8.7	6.2
16	10.0	13.1	17.6	13.0	1.0	15.3	7.5	14.2	11.5	5.2
8	18.9	14.2	14.4	11.9	18.9	16.5	19.8	15.9	16.3	2.7
4	15.7	13.5	8.5	11.2	20.5	13.8	15.3	15.0	14.2	3.5
2	11.8	12.2	7.4	9.9	15.0	9.9	12.6	13.5	11.5	2.4
1	9.7	9.7	7.8	7.9	13.5	8.8	11.6	8.4	9.7	2.0
0.85	2.9	2.1	2.3	1.3	4.9	2.5	3.4	2.6	2.8	1.1
<0.85	28.0	28.5	22.4	32.6	23.8	21.0	27.9	19.2	25.4	4.5
Geometric mean	3.0	3.3	5.7	3.5	2.7	4.8	2.8	4.7	3.8	1.1
d75	10.9	13.0	26.8	16.3	7.5	18.5	9.7	16.3	14.9	6.1
d25	0.8	0.7	1.0	0.7	0.9	1.2	0.8	1.4	0.9	0.2
Fredle index	0.8	0.8	1.1	0.7	0.9	1.2	0.8	1.4	1.0	0.2

Average McNeil Sediment Samples (eight samples)  
Georgia-Pacific West, Inc. Fort Bragg, CA

Sample Location: Soldier Creek (USA3)

Date: 970909  
T23N R18W Section 14



Location:	Soldier Creek								Date:	991014
Results here: samples by percent, geometric means, Fredle indices, and percent fines:										
	Station #1 samples				Station #2 samples					
Sieve size (mm)	1	2	3	4	1	2	3	4	Averages	Std. Dev.
63	0.0	0.0	21.2	6.2	0.0	8.8	0.0	7.9	5.5	7.4
31.5	20.8	24.1	14.1	10.4	42.4	37.3	22.2	18.6	23.8	11.0
16	15.7	15.6	17.2	20.6	12.6	13.8	14.8	17.5	16.0	2.5
8	12.6	13.6	9.1	11.5	7.4	5.5	13.6	15.7	11.1	3.5
4	10.8	10.9	9.7	12.4	5.6	4.9	9.9	5.5	8.7	2.9
2	9.2	8.6	7.7	7.5	4.7	3.1	10.3	5.7	7.1	2.4
1	9.4	10.5	6.6	11.0	6.7	2.0	3.5	4.4	6.8	3.3
0.85	1.7	2.0	2.1	2.5	1.1	1.0	2.5	2.2	1.9	0.6
<0.85	19.7	14.8	12.2	17.9	19.5	23.6	23.4	22.6	19.2	4.1
Geometric mean	5.9	7.1	11.7	6.2	9.3	10.4	5.8	7.4	8.0	2.2
d75	27.4	30.6	54.5	25.2	44.4	49.4	28.6	34.0	36.8	11.1
d25	1.4	1.8	3.0	1.4	1.7	1.2	0.9	1.1	1.6	0.7
Fredle index	1.3	1.7	2.8	1.5	1.8	1.6	1.1	1.3	1.6	0.5

Average McNeil Sediment Samples (eight samples)  
The Timber Company, Fort Bragg, CA

Sample Location: Soldier Creek (USA 3)

