

Date	d ₀	t ₁	t ₂	t ₃	V ft/sec	Rainfall		NTU
						0830	sample time	
2/2/98	12.25'				2.3	—		
2/3/98	10.9'				2.0	1.00"		
2/4/98	13.9'	13.2	9.8	11.4	1.6	.40"		
2/5/98	15.2	10.6	18		1.4	.10"		57.0
2/6/98	12.5	10.9	11	13	1.8	.80	1300	300
2/7/98	9.25	13.4	10.2	13.2	1.7	.80	1700	Rainfall 0830 to 1700 = .70" to 545
2/8/98	4.5	water blocked by bridge.				2.35	1045	Flood - 534
2/10/98	13.5	12.3	12.3		1.7	.10	1130	
2/11/98	16.25	13.2			1.6	.35	1730	
2/13/98	16.5	14.9	15.2		1.4		1200	46.6
2/14/98	16.0	12.5			1.7	.40 + .55 = .95 since 0830	1730	173
2/14/98	13.16	11.5			1.8	.45 since 1730	1750	410
2/14/98	9.4					.1 since 1300	2380	514
2/15/98	12.3	10.5	9.6		2.1	1.2 (1.5 since 2330 on 2/14)	310	137
2/19/98	6.5	Chips not floating through				.80	1430	Half across road at turn
2/20/98	11.6	9.5	9.1	12.5	2.0	1.80	1315	
2/21/98						1.85		
2/22/98	10.75	9.9	11.1		2.0	.45	1400	

BRIDGE OVER N FORK ELK RIVER @
ELK RIVER RD PM 3.38 (35305) BRIDGE
HC-57

Rainfall checked at 0830 representing
the previous 24 hrs. rainfall unless
otherwise noted.

BY RALPH KRAUS 2479 WRIGLEY RD
EUREKA CA
443-1469

RAINFALL 08:30 - 08:30				8 PPI			
DISTANCE ACROSS BRIDGE				= 21.25' TOP UPSTREAM			
				RAIL TO WATER			
				= 2' 5"			
Flood - 4 ft over road, Rise 2 ft/hr from 1/430 to 1/630							
Flood 1.85 from about 1800 2/20 to 0830 2/21. water on bridge							

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(1)

1998										10.25'	
Date	Time	Lat	Long	Alt	Temp	Wind	Humidity	Pressure	Visibility	Remarks	
11/6	19:55	OT	11:55								
11/7	18.6	18.25	16.4	14.8	1.3	1.20	1305				
11/8	19.0	18.09	21.5	15.8	1.75	.40	1305				
11/19	19.3	17.9	19.5	39.5	.8	0	1340				
11/20	14.3	Poph sticks not floating through				1.1	2315				
11/21	5.8	"				3.2	0830				
11/22	10.5	9.78	9.12	11.28	2.12	2.0	0945	9.6			
11/23	12.5	10.1			2.1	.8	0900	8.9	2.5		
11/23	8.3	11.3			1.8	.2	1600	8.9			
11/24	9	12.5	13		1.6	.5	0740	9	2.5		
11/25	16	14.8	10.4		1.6	0	0930	11	1.8		
11/26	14.3	10.4	11.8		1.8	.9	0930	10.2	2.6		
11/29	16.5	15.3			1.3	.55	0845	11.28	1.6		
11/30	9	13.5	14.5	13.8	1.5	1.6	1630	9.28	2.8		
12/1	10	12.2	10.9		1.8	.8	0930	9.9	2.9		
12/1	13	9.4	11.2		2.0	.1	1630	10.9	2.6		
12/1	13				2.0	.4	2300				
12/2	6	Poph sticks conv. How through				1.5	0815	5.2	4.6		
12/2	water over bridge roadway					.3	1400				
12/2	4	water on bridge approach				.3	1630				
12/3	3.75					.9	0830	7.3			
12/4	13.75	7.2			1.9	.1	0920	10.3	0.4		
12/5	16.2	10.8			1.5	0	1000	11.3			
12/5	16.5	11			1.5	.5	1700	10.9			
12/6	13.3	8.3			1.6	.3	1000	11.0			
12/7	13.2	7.7			1.7	0	0830	11.0			
12/8	16.5	12.6			1.3	.3	1020	11.3			
12/9	17.25	9.6			1.8	0	1110	11.5			
12/12	18.75	14.25			1.5	0	1010	11.5			
12/13	18.75	14.2			1.5	.1	1000	12.2			

Bridge width 21.25

top of main channel

width 10.25

Date	d'	t ₁	t ₂	t ₃	days	rainfall since last measure	single sample	SF	Bridge deck to water	d'	ft/sec
1/26/99	17.25						.05	0940			
1/27/99	18						0	1120			
1/28/99	18.5						0	0940			
1/29/99	18.8						0	1540			
1/30/99	19.0						0	1445			
1/31/99	18.6						.5	1530			
2/1/99	19.0						.2	1735			
2/2/99	19.2						.1	1445			
2/4/99	18.9						.4	1630			
2/5/99	18.75						.15	0845			
2/6/99	18.0						1.0	0900			
2/6/99	9.0						.3	1410			
2/6/99	8.5						Trace	1430			
2/6/99	6.75						0	1610			
2/6/99	6.8						0	1800			
2/6/99	7.5						0	2005			
2/7/99	7.6						.85	0905			
2/7/99	5.9						.10	1230			
2/8/99	13.9						.15	0915			
2/8/99	14.2						.35	1720			
2/9/99	5.3						1.35	0915			
2/10/99	12.25						.30	0920			
2/11/99	14.5						0	0850			
2/12/99	16.1						0	0910			
2/13/99	17.0						.15	0815			
2/14/99	15.6						.40	0930			
2/15/99	16.7						0 trace	0930			
2/16/99	16.9						.40	0830			
2/17/99	14.2						.60	0930			
2/18/99	15.2						.50	0800			

River rose 8.9 ft in 5 hrs 10 min after .3 in of rain.

Water about 6" over road.

River 1 ft. over road. Picture #7

4

ENJOY W/OT 21.25 H. CE - 100 ft. to wall.

Date	d'	t ₁	t ₂	t ₃	✓ ft/sec	Rainfall since last measure	Time
2/20/99	15.6					0	0845
2/21/99	14.9						0910
2/22/99	13.3					.1	0900
2/23/99	8.3					1.3	0945
2/24/99	14.3					0	0920
2/25/99	5.4					1.6	0930
3/8/99	16.3					1.3	1835
3/9/99	13.75					.2	0840
3/10/99	13.25					0	1000
3/11/99	16.25					0	0930
3/13/99	18.25						2200
3/14/99	13.0					1.32	1015
3/14/99	12.0					.1	1215
3/14/99	11.25					.1	1415
3/14/99	11.2					trace	1415
3/15/99	14.25						0945
3/16/99	16.25					0	1000
3/18/99	18.0					0	1445
3/19/99	18.5					0	0900
3/20/99						.15	0900
3/22/99	19.25						1010
3/23/99	18.6					.5	0930
3/24/99	13.9					1.3	0950
3/24/99	9.6					.8	1430
3/24/99	7.5					.4	1630
3/24/99	4.25					.2	1920
3/25/99	8.5					.5	0930
3/26/99	14.9					0	1030
3/27/99	16.5					trace	0845
3/28/99	17.5					0	0950

Flood

1/2 across road at corner
 Across road between Rosies & Kallos. Not passable between
 River down to edge of road. cur bridge deck at 2130 on 3/24.
 corner and bridge.

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Date	d'	t ₁	t ₂	t ₃	✓ ft/sec	Rainfall measure	since last time
3/30/99	14.5					.20	1745
3/31/99	12.0					.25	1010
4/1/99	14.25					.10	1030
4/2/99	16.2					0	0930
4/3/99	16.9					.23	0930
4/4/99	17.5					0	1015
4/5/99	17.6					.25	1015
4/6/99	14.9					.50	0845
4/7/99	16.9					0	1445
4/8/99	13.5					.80	1020
4/9/99	13.2					.25	0845
4/10/99	16.4					.05	0945
4/11/99	13.3					.40	0925
4/12/99	16.9					0	1000
4/13/99	17.6					0	0930
4/14/99	18.2					0	0915
4/15/99	18.5					0	0910
4/16/99	18.9					0	0945
4/17/99	19.2					0	0950
4/18/99	19.4					0	1105
5/7/99	19.3					1.7	1030

1.7 collected over one week.

Bridge width = 21.25 ft U - 10 ft from ...

1999-2000	Date	d'	t'	t''	t'''	✓ ft/sec	Rainfall since last measure	time	W
	8/5/99						.23	0900	
	8/7/99						.15	1115	
	10/6						.30		
	10/27						.33		
	10/28	20.20					.90		
	11/8						.50		
	11/9	20.40					0	0925	
	11/10	19.4	39			.54	1.8	0850	
	11/12	19.5	55			.38	trace	0925	16.25
	11/15						.15		
	11/16	19.75	40				.95	0945	
	11/16	19.3				.53	.50	1240	
	11/16	18.3	35			.61	0	1700	
	11/17	18.6	18			1.18	.15	0845	17'
	11/18	18.2	25			.85	0	0955	
	11/19	19.3	32				.65	1010	
	11/20	17.3	18.5			1.14	1.10	1315	19'
	11/22	18.2					0	0950	
	11/25	18.5	29	28.4		.98	.20	0945	
	11/29	19.8	45.5			.96	.15	1000	
	11/29	18.0					1.3	2100	
	11/30	13.9	12	9	15	1.8	.3	0930	35.25'
	11/30	10.9					.85	1630	
	12/1	13.9	10	13	10	1.9	.10	0920	
	12/2	10.4	19	21	23	.95	.50	1000	
	12/3	17.0					.05	1720	
	12/5	18.5	21	20.5	26	1.0	.10	1249	
	12/7	18.4	19	19		1.1	.35	1000	
	12/7	16.1					.50	1938	
	12/8	16.2	19	19.4			0	0940	

RAIN GAUGE EMPTIED @ 08:30 DAILY

Accumulations since 7/1/99 =

24 hr accumulation

24 hr accumulation

River water is clear but black - like Okfenokoe swamp.

River looked clear but black.

River muddy. ^{archery range THP} class III muddy flow. But class III not flowing.

.20 fell on the 22-23.

.15 fell 11/29 - 11/28

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V = 21.25
K.A.

21.25 = distance across bridge.

1999-2000

Date	d	t ₁	t ₂	t ₃	V _{sec}	Rainfall since last measure	Time
12/9	10.8	9.5	9.3	9.5	2.2	.20	1625
12/9	10.5						2030
12/10	13.95	14.4	10.1	14.1	1.5	.0	0930
12/11	15.65	15	22	16	1.2	0	1035
12/12	17.8	29.5	30.3	14	.86	0	1020
12/12	16.3					.95	2325
12/13	12.3					.05	0830
12/14	16.4					0	0925
1/7/00	19.3	26	29		.77		1455
1/10	19.5				.12		0820
1/11	3.4					1.5	1000
1/12	13.3					.3	0920
1/13	18.0					.2	1300
1/14	3.1					2.4	0950
1/14	1.2					trace	1530
1/14	7.2					0	2330
1/15	12					.40	1020
1/16	17.1					.90	0925
1/18	18.1					.11	1315
1/19	16.5					.40	1125
1/20	13.2					.40	1005
1/21	16.1					.20	1720
1/22	16					.20	1005
1/24	17.2					.20	1735
1/25	17.2					.27	1330
1/30	17.5					.65	1010
1/30	13.9					.50	1700
1/31	14.6					.40	1640
2/1	16.1					0	1335
2/4	18					.1	1415

No rain of any consequence since 12/14

River over roadway on bridge. We're flooded in.

River over roadway on bridge. We're flooded in.
Landed from Martin's to Dead Woman's corner. Road

Raining hard. loaded truck came out at 0905.

.65 fell in last 10 hours.

Date	d	t ₁	t ₂	t ₃	U St/sec	Rainfall since last measure	Time
2/10	18					0	0930
2/11	17.5					.30	1015
2/12	16.9					.55	1745
2/13	15.8					.50	1725
2/15	11.9					1.51	1010
2/16	15.7					.1	1715
2/20	18					1.05	1310
2/21	18.5						
2/22	18.1						1010
2/22	17.8						1130
2/22	17.6						1200
2/23	14.0					1.15	1030
2/24	16.2					.10	1810
2/25	16.1					.15	1715
2/27	11.4					1.10	1320
2/28	8.5					.55	0840
2/28	11.4					0	1745
2/29	10.3					.90	1030
3/1	14					.05	1345
3/2	15.6					.35	1340
3/4	16.5					0	1650
3/5	14.7					.50	1020
3/7	17.3					.15	1805
3/10	17.4					.15	1235
3/14	17.8					.42	0905
3/16	16.5					.70	0950
3/16	15.5					0	1655
3/19	17.6					.25	1005
4/12						.05	
4/16	19.7					.23	1120
4/17	16.5					1.17	0935

← Flood on 2/14 over bridge roadway could not get home on eve of 2/14. 1.17 on 2/14, .4 on 2/15

wind damage rain gauge

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Date	d"	t ₁	t ₂	t _{av}	V	Rainfall since last measure	time
4/18	15.7					.45	0945
10/27	20.45						
10/30	19.8						
11/29	19.5					1.00	0845
12/14	16.5					.65	1020
1/8	19.95					.51	1325
1/10	17.9					.70	1045
1/11	15.65					.89	0915
1/23	1.22					.70	1600
1/23	1.74					0	2210
1/24	2.58					.08	1320
1/25	5.16	16.22	17.53	16.87	1.27	1.18	1340
1/25	7.32					0	1650
1/26	7.00					.32	0950
1/26	5.94						1630
1/27	4.08					0	0925
2/2	1.96						1315
2/11	4.13					.70	1015
2/17	1.70					.45	1030
2/18	4.36					.50	1030
2/19	3.3						1040
2/21	4.82					.51	0915
2/22	10.98					.90	0815
3/1	1.98						1555
3/4	3.3					.62	1005

STAFF PLATE AFTER 1/11/01

.51 since midnight River clear.
0.1 on 1/9 and 0.6 on 1/10 River muddy

.70 since 0930 on 10/23. No rain since 1/11

Low tide at 1854 - 0.5
Staff plate at 8.50 max. in early A.M.

.55 on 2/10 No rain since 2/1
.05 on 2/12 .40 on 2/17

Date	d"	t ₁	t ₂	t ₃	✓ ft/sec	Rainfall since last measure	Time
1/23	.90					.70	1600
1/24	1.56					.08	1330
1/25	5.48					1.18	1350
1/25	4.96						1845
1/26	4.06					1.50	1645
2/11	3.14					.70	1025
2/17	1.3					.45	1035
2/18	2.58					.50	1035
2/21	3.56					.51	0925
2/22	7.09					1.03	1500
2/24	3.44						1310
3/1	1.58						1600
3/4	2.54					.62	1000

No rain since 1/11

Staff plate - 5.40 max sometime in early A.M.

.70 at 0830 2/11, .55 on 2/10 No rain since 2/11
Daily rainfall since 2/17. .45 2/17, .50 2/18, .20 2/19,
.28 2/20, .51 2/21

.62 in last 24 hrs.

2000-2001 2" measured from staff plate

S FORK ELK @ MARCIE BOHANNON'S

SFMRB

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