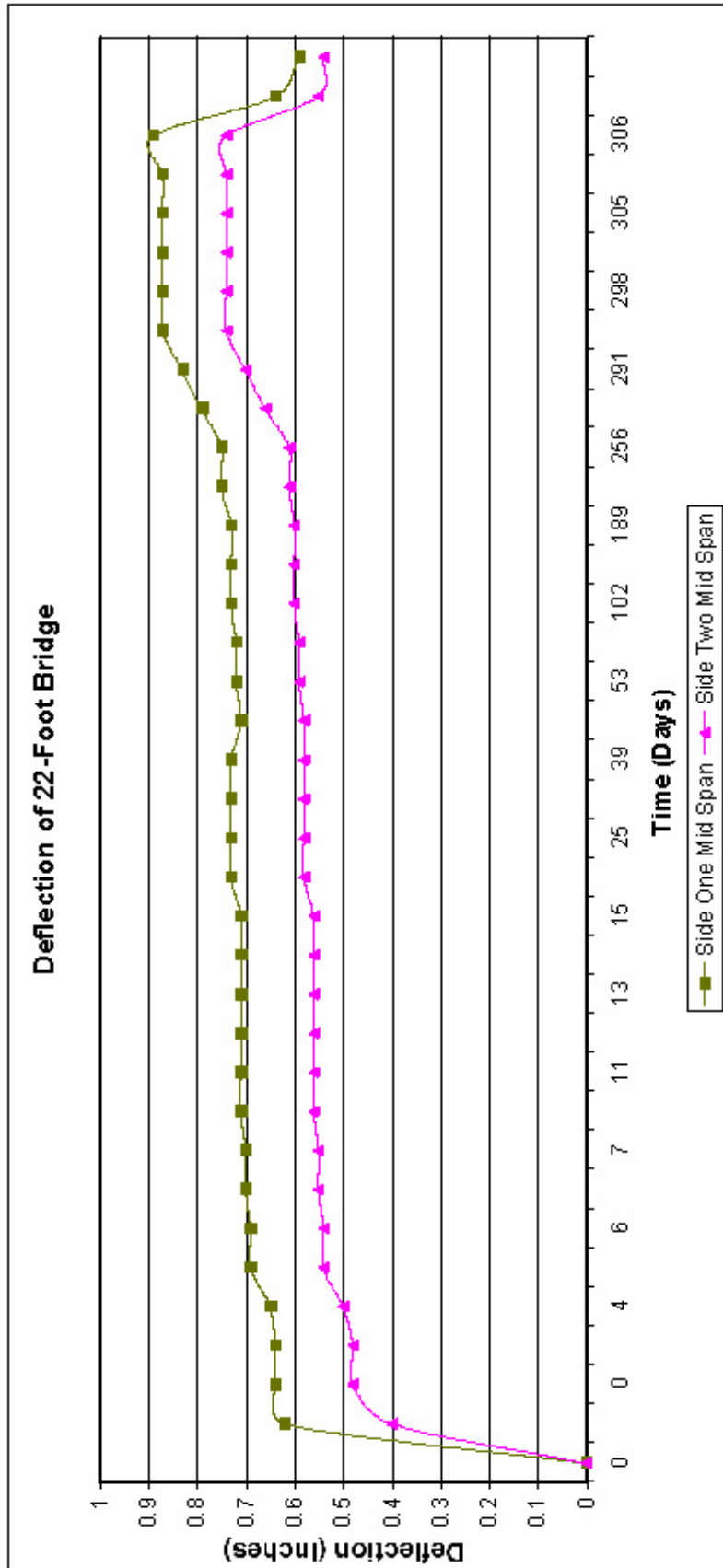


## Appendix D—Test Data for Bridges at the Forest Products Laboratory

The bridge was loaded on September 24, 1998. Deflection was measured at midspan. Temperature (Temp) was measured in degrees Fahrenheit. The *actual reading* is the *bridge reading* at a particular time minus the initial unloaded bridge reading. After testing at the Forest Products Laboratory, this bridge was dismantled and installed at Peavine Creek in the Wallowa-Whitman National Forest.

22-Foot Walk Bridge								
Time	Date	Total time (days)	Actual reading		Bridge reading		Temp	Comments
			Side 1 deflection	Side 2 deflection	Side 1 deflection	Side 2 deflection		
14:30	9/24/98	0.00	0.00	0.00	0.25	3.10	65	No Load
15:15	9/24/98	0.03	0.62	0.40	0.87	3.50	65	Loaded, side 2 wire moved
15:30	9/24/98	0.04	0.64	0.48	0.89	3.58	65	
16:15	9/24/98	0.08	0.64	0.48	0.89	3.58	65	
7:45	9/25/98	1.00	0.65	0.50	0.90	3.60		
7:45	9/28/98	4.00	0.69	0.54	0.94	3.64		
7:45	9/29/98	5.00	0.69	0.54	0.94	3.64	70	Light rain
7:45	9/30/98	6.00	0.70	0.55	0.95	3.65	63	
14:30	9/30/98	6.00	0.70	0.55	0.95	3.65	63	After rain
8:00	10/1/98	7.00	0.71	0.56	0.96	3.66	50	
8:00	10/2/98	8.00	0.71	0.56	0.96	3.66	55	Rain, cloudy
10:00	10/5/98	11.00	0.71	0.56	0.96	3.66	60	Rain
8:00	10/6/98	12.00	0.71	0.56	0.96	3.66	55	Rain
9:30	10/7/98	13.00	0.71	0.56	0.96	3.66	60	Clearing
8:30	10/8/98	14.00	0.71	0.56	0.96	3.66	55	Sunny
8:00	10/9/98	15.00	0.73	0.58	0.98	3.68	51	Sunny
9:00	10/13/98	19.00	0.73	0.58	0.98	3.68	42	Sunny
8:00	10/19/98	25.00	0.73	0.58	0.98	3.68	45	Sunny
8:00	10/26/98	32.00	0.73	0.58	0.98	3.68	54	Sunny
8:00	11/2/98	39.00	0.71	0.58	0.96	3.68	42	Overcast
8:00	11/9/98	46.00	0.72	0.59	0.97	3.69	34	Overcast
8:00	11/16/98	53.00	0.72	0.59	0.97	3.69	40	Sunny after rain
8:00	11/30/98	67.00	0.73	0.60	0.98	3.70	50	Rainy
8:00	1/4/99	102.00	0.73	0.60	0.98	3.70	4	After 2 days of snow
8:00	2/10/99	139.00	0.73	0.60	0.98	3.70	50	After spring melt
8:00	4/1/99	189.00	0.75	0.61	1.00	3.71	58	Overcast
8:00	5/3/99	221.00	0.75	0.61	1.00	3.71	78	Sunny
8:00	6/7/99	256.00	0.79	0.66	1.04	3.76	88	Sunny
11:00	7/6/99	285.00	0.83	0.70	1.08	3.80	96	Sunny
8:00	7/12/99	291.00	0.87	0.74	1.12	3.84	80	Sunny
8:00	7/15/99	294.00	0.87	0.74	1.12	3.84	72	Sunny
8:00	7/19/99	298.00	0.87	0.74	1.12	3.84	73	Sunny
8:00	7/22/99	301.00	0.87	0.74	1.12	3.84	72	Sunny
8:00	7/26/99	305.00	0.87	0.74	1.12	3.84	84	Rainy
8:00	7/27/99	306.00	0.89	0.74	1.14	3.84	83	Before unload, sunny
9:30	7/27/99	306.00	0.64	0.55	0.89	3.65	84	Unload, sunny
8:00	7/28/99	307.00	0.59	0.54	0.84	3.64	73	Sunny



**Appendix D—Test Data for Bridges at the Forest Products Laboratory**

The bridge was loaded on September 29, 1998. Temperature (Temp) was measured in degrees Fahrenheit. The *actual deflection* is the *bridge readings* at a particular time minus the initial unloaded bridge reading. After testing at the Forest Products Laboratory, this bridge was dismantled and reinstalled at Falls Creek in the Gifford-Pinchot National Forest.

<b>44-Foot Walk Bridge</b>												
Time	Date	Total time (days)	Actual deflection				Bridge readings				Temp	Comments
			Side 1		Side 2		Side 1		Side 2			
			End	Mid	End	Mid	End	Mid	End	Mid		
13:00	9/29/1998	0.00	0.00	0.00	0.00	0.00	6.50	4.38	9.14	0.44	70	Zero load
15:15	9/29/1998	0.08	0.80	1.02	0.68	1.02	7.30	5.40	9.82	1.46	70	1 hr after loading
16:45	9/29/1998	0.16	0.81	1.02	0.71	1.06	7.31	5.40	9.85	1.50	70	Sunny
7:45	9/30/1998	0.80	0.84	1.08	0.73	1.07	7.34	5.46	9.87	1.51	70	Sunny
14:30	9/30/1998	1.00	0.84	1.08	0.72	1.07	7.34	5.46	9.86	1.51	70	Sunny
8:00	10/1/1998	2.00	0.88	1.10	0.74	1.10	7.38	5.48	9.88	1.54	50	Sunny
8:00	10/2/1998	3.00	0.90	1.12	0.76	1.12	7.40	5.50	9.90	1.56	55	Rain, cloudy
10:00	10/5/1998	6.00	0.90	1.16	0.76	1.14	7.40	5.54	9.90	1.58	60	Rainy
8:00	10/6/1998	7.00	0.90	1.17	0.76	1.16	7.40	5.55	9.90	1.60	55	Rainy
9:30	10/7/1998	8.00	0.88	1.16	0.75	1.14	7.38	5.54	9.89	1.58	60	Clearing
8:30	10/8/1998	9.00	0.90	1.18	0.78	1.16	7.40	5.56	9.92	1.60	55	Sunny
8:00	10/9/1998	10.00	0.92	1.18	0.80	1.16	7.42	5.56	9.94	1.60	51	Sunny
9:00	10/13/1998	14.00	0.94	1.20	0.82	1.18	7.44	5.58	9.96	1.62	41	Sunny
8:00	10/19/1998	20.00	0.96	1.24	0.84	1.22	7.46	5.62	9.98	1.66	45	Sunny, after 2 days rain
8:00	10/26/1998	27.00	0.94	1.22	0.82	1.20	7.44	5.60	9.96	1.64	54	Sunny
8:00	11/2/1998	34.00	0.96	1.24	0.84	1.22	7.46	5.62	9.98	1.66	42	Overcast
8:00	11/9/1998	41.00	0.97	1.25	0.83	1.22	7.47	5.63	9.97	1.66	34	Overcast
8:00	11/16/1998	48.00	0.96	1.26	0.84	1.22	7.46	5.64	9.98	1.66	40	Sunny after rain
8:00	11/30/1998	62.00	0.96	1.26	0.84	1.24	7.46	5.64	9.98	1.68	50	Rainy
8:00	1/4/1999	97.00	0.96	1.26	0.84	1.24	7.46	5.64	9.98	1.68	4	After 2 days of snow
8:00	2/10/1999	134.00	0.97	1.27	0.86	1.26	7.47	5.65	10.00	1.70	50	After spring melt
8:00	4/1/1999	184.00	0.98	1.28	0.88	1.28	7.48	5.66	10.02	1.72	59	Overcast
8:00	5/3/1999	216.00	0.96	1.26	0.82	1.22	7.46	5.64	9.96	1.66	78	Sunny
8:00	6/7/1999	251.00	1.02	1.32	0.88	1.28	7.52	5.70	10.02	1.72	88	Sunny
11:00	7/6/1999	280.00	1.04	1.38	0.90	1.34	7.54	5.76	10.04	1.78	96	Sunny
8:00	7/12/1999	286.00	1.09	1.42	0.95	1.39	7.59	5.80	10.09	1.83	80	Sunny
7:00	7/15/1999	289.00	1.10	1.48	0.96	1.46	7.60	5.86	10.10	1.90	72	Sunny
7:00	7/19/1999	293.00	1.11	1.49	0.97	1.47	7.61	5.87	10.11	1.91	73	Sunny
7:00	7/22/1999	296.00	1.11	1.49	0.97	1.47	7.61	5.87	10.11	1.91	76	Sunny
10:00	7/26/1999	300.00	1.11	1.49	0.97	1.47	7.61	5.87	10.11	1.91	84	Rainy
8:00	7/27/1999	301.00	1.11	1.49	0.97	1.43	7.61	5.87	10.11	1.87	90	Before unload, sunny
12:00	7/27/1999	301.00	0.45	0.46	0.27	0.38	6.95	4.84	9.41	0.82	92	Unload, sunny
7:00	7/28/1999	302.00	0.46	0.50	0.32	0.46	6.96	4.88	9.46	0.90	73	Sunny

