

STATION (Climate)		University of Md. (River Station, if different)		MONTH	
STATE		COUNTY		RIVER	
TIME (local) OF OBSERVATION		TEMP.		PRECIPITATION	
TYPE OF RIVER GAGE		ELEVATION OF RIVER GAGE ZERO		FLOOD STAGE	

FORM B-91  
(12-93)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL WEATHER SERVICE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE F.			PRECIPITATION													WEATHER (Calendar Day)						RIVER STAGE		REMARKS (Special observations, etc.,)		
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	24-HR AMOUNTS			A.M.			NOON			P.M.			Fog	Ice Pellets	Glaze	Thunder	Hail	Damaging Winds	CONDITION	GAGE READING AT	TENDENCY			
	MAX.	MIN.		Rain, melted snow etc. (ins. and hundredths)	Snow, ice pellets, hail, ice on tenths (ins. and tenths)	At Obs.	Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.																				
1	35	-6	34	0																							
2	50	27	44	0																							
3	55	39	46	0																							
4	64	33	35	T																							
5	63	33	35	.02																							
6	67	51	51	0																							
7	66	53	60	.92																							
8	68	64	64	.95																X							
9	61	29	29	0																X							
10	51	27	27	0																X							
11	48	26	30	.16																							
12	39	25	39	.02																							
13	51	23	23	0																							
14	35	22	29	T																							
15	33	28	33	1.08																X						Ice, Rain, mix	
16	40	32	33	0																							
17	41	31	35	0																							
18	40	34	34	0																							
19	37	29	29	.14																							
20	37	21	21	0																							
21	36	20	25	0																							
22	38	25	33	.45																							
23	36	32	33	0																						T, mix, RAIN	
24	39	29	29	0																							
25	39	29	25	.75	1.0																						
26	41	23	32	0																							
27	39	29	36	.55																						Mix	
28	37	32	27	.39																							
29	54	27	40	0																							
30	49	32	32	0																							
31	41	21	21	0																							
SUM			SUM	5.43	1.0																						

CONDITION OF RIVER AT GAGE		CHECK BAR (For wire-weight) NORMAL CK. BAR	
READING	DATE		

A. Obstructed by rough ice.  
 B. Frozen, but open at gage.  
 C. Upper surface of smooth ice.  
 D. Ice gorge above gage.  
 E. Ice gorge below gage.  
 F. Shore ice.  
 G. Floating ice.  
 H. Pool stage.

OBSERVER	STATION INDEX NO.
David W. Lyard Jr.	
SUPERVISING OFFICE	

STATION (Climate) **University of Md. WMRE.C.** (River Station, if different) MONTH **Feb.** 19 **98**  
 STATE **MARYLAND** COUNTY **Washington** RIVER  
 TIME (local) OF OBSERVATION RIVER TEMP. **7:30 AM - 7:30 AM** PRECIPITATION STANDARD TIME IN USE  
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO Ft. FLOOD STAGE Ft. NORMAL POOL STAGE Ft.

FORM B-91  
(12-93)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL WEATHER SERVICE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE F.			PRECIPITATION			WEATHER (Calendar Day)						RIVER STAGE		REMARKS (Special observations, etc..)				
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	24-HR AMOUNTS		At Ob. Snow, ice pellets, hail, ice on ground (hrs.)	Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.						Mark 'X' for all types occurring each day.			CONDITION	GAGE READING AT A.M.	TENDENCY	
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, (ins. and tenths)		A.M.	NOON	P.M.	Fog	Ice Pellets	Glaze	Thunder	Hail					Damaging Winds
1	47	19	26	0															
2	48	24	37	0															
3	42	34	34	.30		T													
4	39	33	36	1.70	T	T												Mix	
5	40	35	38	.07															
6	45	30	32	.0															
7	44	26	26	.0															
8	48	24	24	.0															
9	50	23	23	.0															
10	54	21	36	.0															
11	49	35	42	.28															
12	52	34	34	.0															
13	41	33	35	.0															
14	39	28	20	.0															
15	41	19	27	.0															
16	40	27	42	.11														about Dark mix Rain, Sleet	
17	48	34	43	.64															
18	52	43	46	.12															
19	49	36	39	.0															
20	49	35	42	.0															
21	46	30	30	.0															
22	48	29	39	.14															
23	42	34	37	.0															
24	43	33	40	1.41															
25	52	32	32	.0															
26	56	29	29	.0															
27	59	29	35	.0															
28	51	35	36	.0										X					
29																			
30																			
31																			
SUM			SUM 477				CHECK BAR (For wire-weight) NORMAL CK. BAR												

CONDITION OF RIVER AT GAGE  
 A. Obstructed by rough ice. B. Frozen, but open at gage. C. Upper surface of smooth ice. D. Ice gorge above gage.  
 E. Ice gorge below gage. F. Shore ice. G. Floating ice. H. Pool stage.

READING \_\_\_\_\_ DATE \_\_\_\_\_

OBSERVER *David W. Hyland Jr.*  
 SUPERVISING OFFICE \_\_\_\_\_ STATION INDEX NO. \_\_\_\_\_

STATION (Climate) *University of Md. UMREC.* (River Station, if different)  
 STATE *MARYLAND* COUNTY *Washington* MONTH *MARCH* 19 *98*  
 RIVER  
 TIME (local) OF OBSERVATION RIVER TEMP. *7:30 AM - 7:30 AM* PRECIPITATION STANDARD TIME IN USE  
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO Ft. FLOOD STAGE Ft. NORMAL POOL STAGE Ft.

FORM B-91 (12-93) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE F.			PRECIPITATION			WEATHER (Calendar Day)						RIVER STAGE		REMARKS <i>(Special observations, etc.)</i>				
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	24-HR AMOUNTS			Mark 'X' for all types occurring each day.						GAGE READING AT ____ A.M.	TENDENCY					
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Show, ice pellets, hail, ice on ground (ins.)	At Ob.	Fog	Ice Pellets	Glaze	Thunder	Hail	Dam. Winds				CONDITION			
Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.																			
1	55	33	33	.23															
2	53	33	34	.36															
3	43	32	32	.0															mix
4	46	31	31	.0															
5	44	28	21	.0															
6	49	20	37	.0															
7	57	35	48	.0															
8	49	44	45	1.14															
9	62	35	35	.29															
10	47	20	20	.0															
11	31	17	17	.0															
12	33	16	18	.0															
13	39	17	36	.0															
14	48	29	29	.0															
15	42	26	26	.0															
16	43	25	30	.0															
17	43	24	35	.38															
18	43	35	41	.81															
19	58	41	43	.0															
20	49	38	39	.0															X
21	44	34	35	.0															
22	39	34	29	.0															
23	50	25	28	2.00															
24	43	24	24	.06															mix, snow + rain
25	52	22	42	.0															Heavy Frost
26	70	41	49	.0															
27	84	49	61	.0															
28	79	58	59	.0															
29	84	53	53	.0															
30	86	48	59	.0															
31	83	55	68	.0															
SUM			SUM	5.27															

CONDITION OF RIVER AT GAGE: A. Obstructed by rough ice, B. Frozen, but open at gage, C. Upper surface of smooth ice, D. Ice gorge above gage, E. Ice gorge below gage, F. Shore ice, G. Floating ice, H. Pool stage.

CHECK BAR (For wire-weight) NORMAL CK. BAR

OBSERVER: *David Lyand Jr.*

SUPERVISING OFFICE: \_\_\_\_\_ STATION INDEX NO.: \_\_\_\_\_

STATE *Maryland* COUNTY *Washington* RIVER *...*  
 TIME (local) OF OBSERVATION *7:30 AM - 7:30 AM* PRECIPITATION STANDARD TIME IN USE  
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO Ft. FLOOD STAGE Ft. NORMAL POOL STAGE Ft.

**RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS**

DATE	TEMPERATURE F.			PRECIPITATION											WEATHER (Calendar Day)						RIVER STAGE		REMARKS (Special observations, etc.,)									
	24 HRS. ENDING AT OBSERVATION		AT OSSN.	24-HR AMOUNTS		At Ob. Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.	A.M.			NOON			P.M.			Fog	Ice Pellets	Glaze	Thunder	Hail	Damaging Winds	Time of observation if different from above		CONDITION	GAGE READING AT A.M.	TENDENCY						
	MAX.	MIN.		Pain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, (ins. and tenths)		1	2	3	4	5	6	7	8	9												10	11	1	2	3	4
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11		1	2	3	4	5	6	7	8	9
1	71	51	51	.58														X														
2	70	36	36	.0																												
3	61	34	43	.0																												
4	52	40	40	.0																												
5	57	35	35	.10																												
6	60	27	29	.0																												
7	66	26	46	.0																												
8	68	44	55	.30														X	X	X												
9	55	41	41	.50														X	X	X												
10	63	28	28	0																												
11	60	26	31	0																												
12	65	29	32	0																												
13	68	31	52	0																												
14	64	47	47	.03																												
15	73	43	58	.04																												
16	76	52	63	T																												
17	78	43	43	.0															X													
18	63	41	48	.0																												
19	52	47	48	1.43																												
20	61	38	38	.0																												
21	68	36	45	.0																												
22	67	42	46	.0																												
23	63	43	46	.0																												
24	74	40	51	.0																												
25	74	45	53	.0																												
26	71	42	42	.34																												
27	58	38	38	0																												
28	63	33	40	0																												
29	72	35	56	.02																												
30	73	51	60	.26																												
31																																
SUM				360																												

CONDITION OF RIVER AT GAGE: A. Obstructed by rough ice. B. Frozen, but open at gage. C. Upper surface of smooth ice. D. Ice gorge above gage. E. Ice gorge below gage. F. Shoro ice. G. Floating ice. H. Pool stage.

CHECK BAR (For wire-weight) NORMAL CK. BAR

READING: \_\_\_\_\_ DATE: \_\_\_\_\_

OBSERVER: *David W. Lynch Jr.*  
 SUPERVISING OFFICE: \_\_\_\_\_ STATION INDEX NO.: \_\_\_\_\_

STATION (Climatol. University of Md. WMREC (River Station, if different) MONTH May 19 98  
 STATE MARYLAND COUNTY Washington RIVER  
 TIME (local) OF OBSERVATION RIVER TEMP 7:30AM - 7:30AM PRECIPITATION STANDARD TIME IN USE  
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO Ft. FLOOD STAGE Ft. NORMAL POOL STAGE Ft.

FORM B-91

U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL WEATHER SERVICE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE F.			PRECIPITATION			WEATHER (Calendar Day)						RIVER STAGE		REMARKS (Special observations, etc.)	
	24 HRS. ENDING AT OBSERVATION		AT OSSN.	24-HR AMOUNTS		At Ob. Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.	Mark 'X' for all types occurring each day.						GAGE READING AT	TENDENCY		
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, (ins. and tenths)		Snow, ice pellets, hail, ice on ground (ins.)	A.M.		NOON		P.M.				CONDN.
1	67	55	58	0												
2	71	50	56	0												
3	74	50	57	1.15												
4	68	53	59	.01												
5	68	51	51	.62												
6	71	48	53	0												
7	69	50	60	.75												
8	60	57	57	0												
9	68	57	57	0												
10	64	53	53	1.30												
11	59	52	52	.38												
12	56	52	52	.25												
13	71	49	50	0												
14	79	42	55	0												
15	86	47	63	0												
16	88	54	68	0												
17	85	59	59	.05												
18	87	48	63	0												
19	91	54	68	0												
20	90	59	69	0												
21	82	55	55	0												
22	72	46	55	0												
23	71	49	55	0												
24	70	46	62	0												
25	84	57	65	.03												
26	77	57	60	0												
27	76	56	59	0												
28	83	53	67	0												
29	88	58	68	0												
30	89	62	70	0												
31	88	63	65	.87												
SUM			SUM	5.41												

CONDITION OF RIVER AT GAGE  
 A. Obstructed by rough ice. E. Ice gorge below gage  
 B. Frozen, but open at gage. F. Shoro ice.  
 C. Upper surface of smooth ice. G. Floating ice.  
 D. Ice gorge above gage. H. Pool stage.

CHECK BAR (For wire-weight) NORMAL CK. BAR  
 READING DATE

Observer David Whyard Jr.  
 SUPERVISING OFFICE STATION INDEX NO.











STATION (Climate)	UNIVERSITY OF MD. (River Station, if different)	MONTH	Oct. 1998
STATE	MARYLAND	COUNTY	Washington
TIME LOCAL OF OBSERVATION	7:30 AM	PRECIPITATION	7:30 AM
TYPE OF RIVER GAGE	ELEVATION OF RIVER GAGE ZERO	FLOOD STAGE	NORMAL POOL STAGE

(1-3) FORM B-91

 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL WEATHER SERVICE

## RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE F.			PRECIPITATION																	WEATHER (Calends Day)						RIVER STAGE		REMARKS (Special observations, etc.)
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	24-HR AMOUNTS		A: Os Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.	A.M.			NOON			P.M.			Fog	Ice Pellets	Glaze	Thunder	Hail	Damaging Winds	Time of observation if different from above	CONDITION	GAGE READINGS AT	IF RIVER				
	MAX.	MIN.		Fl.	Fl.		Fl.	Fl.	Fl.	Fl.	Fl.	Fl.	Fl.	Fl.															
	Fl.			Fl.			Fl.		Fl.		Fl.		Fl.																
1	75	32	32	.0																									
2	68	32	41	.0																						First Frost (LOWER AREAS)			
3	63	37	49	.0																									
4	53	49	51	.50																									
5	60	50	58	T																									
6	65	58	60	.0																									
7	65	60	64	.42																									
8	70	56	56	.52																									
9	60	55		.0																									
10	73	52		.0																									
11	73	44		.04																									
12	72	44		.0																									
13	71	44	44	.0																									
14	67	37	31	.0																									
15	68	37		.0																									
16	69	34		.0																									
17	75	39		.0																									
18	78	48	65	.0																									
19	74	42	42	.0																									
20	70	45	48	.0																									
21	65	42	42	.05																									
22			34	.0																									
23				.0																									
24				.0																									
25				.0																									
26				.0																									
27			54	.01																									
28				.0																									
29				.0																									
30				.0																									
31				.0																									
SUM			SUM	1.54																									

*Equipment  
Part Working*

- A. Obstructed by rough ice.
- B. Frozen, but open at gage.
- C. Upper surface of smooth ice.
- D. Ice gage above gage.
- E. Ice gorge below gage.
- F. Shora ice.
- G. Floating ice.
- H. No H stage.

 CHECK BAR (For wire-weight) NORMAL CK. BAR  
 READING: \_\_\_\_\_ DATE: \_\_\_\_\_

 OBSERVER: *David Wlyand Jr.*  
 SUPERVISING OFFICE: \_\_\_\_\_

STATION INDEX NO. \_\_\_\_\_

STATION (City):	University of Md. WMREC		(River Station, if different)	MONTH	Nov	19	98
STATE:	Maryland	COUNTY	Washington	RIVER			
TIME (local) OF OBSERVATION RIVER	TEMP.		PRECIPITATION	STANDARD TIME IN USE			
		7:30am - 7:30am					
TYPE OF RIVER GAGE	ELEVATION OF RIVER GAGE ZERO	Ft.	FLOOD STAGE	Ft.	NORMAL POOL STAGE		

S FORM B-91  
(2-93)

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL WEATHER SERVICE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE F.			PRECIPITATION			WEATHER (Calendar Day)							RIVER STAGE		REMARKS <i>(Special observations, etc.)</i>															
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	24-HR AMOUNTS			Mark 'X' for all types occurring each day.							GAGE READING AT	TENDENCY																
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, (ins. and tenths)	At Obs. Snow, ice pellets, hail, ice on ground (ins.)	Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved.			Fog	Ice Pellets	Glaze	Thunder				Hail	Damaging Winds	Time of observation if different from above	CONDITION											
			A.M.				NOON	P.M.																							
						1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11		_____ A.M.		
1				.0																											
2				.0																											
3				.0																											
4			.21	.0																											
5			.32	.0																											
6				.0																											
7				.0																											
8				.0																											
9				.0																											
10			51	.22																											
11			40	.0																											
12				.0																											
13				.0																											
14				.0																											
15				.0																											
16				.0																											
17				.0																											
18				.0																											
19				.0																											
20				.0																											
21				.0																											
22				.04																											
23				.0																											
24				.13																											
25				.0																											
26				.0																											
27				.0																											
28				.0																											
29				.0																											
30				.0																											
31				.0																											
SUM				.39																											

*\* Equipment Failure  
on Temperature  
Order New Weather  
Equipment*

CONDITION OF RIVER AT GAGE	READING	DATE	OBSERVER	SUPERVISING OFFICE	STATION INDEX NO.
A. Obstructed by rough ice. B. Frozen, but open at gage. C. Upper surface of smooth ice. D. Ice gorge above gage. E. Ice gorge below gage F. Shore ice. G. Floating ice. H. Pool stage.			<i>David Wyanoff</i>		

STATION (City or River Station, if different) **University of Md. W.M.R.C.** MONTH **Dec.** 19 **98**

FORM B-91 (2-93)

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE

STATE **Maryland** COUNTY **Washington** RIVER  
 TIME (local) OF OBSERVATION RIVER TEMP. PRECIPITATION STANDARD TIME IN USE  
**7:30 AM - 7:30 AM**  
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO Ft. FLOOD STAGE Ft. NORMAL POOL STAGE Ft.

**RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS**

DATE	TEMPERATURE F.			PRECIPITATION		WEATHER (Calendar Day)						RIVER STAGE		REMARKS (Special observations, etc.)								
	24 HRS. ENDING AT OBSERVATION		AT OBS.	24-HR AMOUNTS		Mark 'X' for all types occurring each day.						GAGE READING AT	TENDENCY									
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	At Obs. Snow, ice pellets, hail, ice on ground (ins.)	A.M.			NOON						P.M.							
1	63	29	33	.0																		
2	66	29	51	.0																		
3	74	43	62	.0																		
4	72	54	57	.0																		
5	74	54	57	.0																		
6	76	55	58	.0																		
7	63	46	51	.03																		
8	50	39	40	.40																		
9	44	24	.27	.0																		
10	48	28	37	.0																		
11	48	25	43	.0																		
12	48	34	43	.0																		
13	47	24	.24	.0																		
14	45	17	.17	.0																		
15	50	17	27	.0																		
16	53	25	42	.0																		
17	46	29	29	.0																		
18	43	27	35	.0																		
19	50	32	39	.0																		
20	52	37	41	.0																		
21	57	46	49	.0																		
22	61	18	13	.10																		
23	23	12	23	.0		T																
24	32	21	11	.01																		
25	33	10	13	.0																		
26	34	10	12	.0																		
27	40	12	29	.0																		
28	38	29	32	.03												Mix Rain/Snow						
29	36	25	25	.0																		
30	36	18	18	.0																		
31	26	11	24	.0		T										Snow						
<b>SUM</b>			<b>SUM</b>	<b>.57</b>			<b>CHECK BAR (For wire-weight) NORMAL CK. BAR</b>															

CONDITION OF RIVER AT GAGE READING DATE

A. Obstructed by rough ice. E. Ice gorge below gage.  
 B. Frozen, but open at gage. F. Shore ice.  
 C. Upper surface of smooth ice. G. Floating ice.  
 D. Ice gorge above gage. H. Pool stage.

Observer **David W. Wyant Jr.**  
 SUPERVISING OFFICE \_\_\_\_\_ STATION INDEX NO. \_\_\_\_\_