

STATION (Ch. *all*) **University of Md. UMREC** (River Station, if different) MONTH **JAN** 19 **99**
 STATE **MARYLAND** COUNTY **Washington** RIVER _____
 TIME (local) OF OBSERVATION RIVER TEMP RECIPIENT STANDARD TIME IN USE
7:30AM - 7:30
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO Ft. FLOOD STAGE Ft. NORMAL POOL STAGE Ft.

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 Ob. Snow, ice pellets, hail, ice on ground (ins.)	A.M.			NOON						P.M.	
1	26	16	16	0													
2	18	13	32	.07	10												Snow change to ice
3	40	17	19	1.36													
4	27	15	12	.6													
5	22	6	9	.0													
6	33	3	28	.0													
7	34	17	20	.0													
8	29	19	35	.34	5.0	1.0											Snow Am, Ice pm
9	37	21	10	.35													Rain Am
10	27	10	21	.0													
11	34	20	34	.0													
12	49	25	42	.0													
13	51	24	24	.06													
14	29	18	26	.12		.20											
15	32	17	30	.49		.30											
16	43	15	29	.0													
17	54	29	41	.0													
18	44	28	38	.82	T												
19	50	28	35	.0													
20	47	29	30	.01													
21	37	27	35	.05													
22	40	35	48	0													
23	65	38	55	.91													
24	60	33	33	.40													
25	45	31	33	.0													
26	50	24	24	.0													
27	56	23	37	.0													
28	67	34	39	.0													
29	45	19	19	.0													
30	45	19	19	.0													
31	34	18	18	.0													
SUM			SUM	4.98													

CONDITION OF RIVER AT GAGE 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.

CHECK BAR (For wire-weight) NORMAL CK. BAR
 SUPERVISING OFFICE *David Wyand Jr* STATION INDEX NO. _____

STATION (City) *University of Md. WMREC* (River Station, if different)
 MONTH *MARCH* 19 *99*
 STATE *MARYLAND* COUNTY *Washington* RIVER
 TIME (local) OF OBSERVATION TEMP. PRECIPITATION STANDARD TIME IN USE
7:30AM - 7:30AM

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 (Special observations, etc.)				
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	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.						CONDITION	GAGE READING AT _____ A.M.	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.				Fog	Ice Pellets	Glaze	Thunder				Hail	Damaging Winds	Time of observation if different from above					
	1	2	3				4	5	6	7	8	9	10	11	1	2	3					4	5	6					7	8	9	10
	24 HRS. ENDING AT OBSERVATION		AT OBSN.	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.				Fog	Ice Pellets	Glaze	Thunder	Hail	Damaging Winds	Time of observation if different from above	CONDITION	GAGE READING AT _____ A.M.	TENDENCY					
1	44	33					33	.0																								
2	55	32	45	.0																												
3	67	29	29	1.02																												
4	37	26	20	.35																												
5	43	19	36	.0																												
6	48	30	21	.11																												
7	32	21	14	.0																												
8	34	14	25	.0																												
9	25	21	24	.97	6.0	6.0																										
10	37	24	20	.0																												
11	40	20	28	.0																												
12	44	28	27	.0																												
13	44	27	32	.0																												
14	34	31	35	.0	8.0	7.0																										
15	44	31	22	1.17																												
16	48	20	31	.0																												
17	70	28	56	.0																												
18	64	42	39	.0																												
19	49	30	24	.0																												
20	54	23	39	.0																												
21	44	38	36	.90																												
22	45	31	31	.0																												
23	54	26	43	.0																												
24	57	41	36	.01																												
25	51	27	36	.0																												
26	50	24	31	.0																												
27	53	25	43	.0																												
28	59	33	43	.0																												
29	66	33	44	.0																												
30	65	33	31	.0																												
31	74	27	51	.0																												
SUM			SUM	4.52			CHECK BAR (For wire-weight) NORMAL CK. BAR																Fog	Ice Pellets	Glaze	Thunder	Hail	Dam. Winds				

OBSERVER *David Wyand Jr.*
 SUPERVISING OFFICE

- CONDITION OF RIVER AT GAGE**
- | | |
|---------------------------------|-------------------------|
| 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. |

STATION INDEX NO. *5*

STATION (Clim. University of Md WMREC (River Station, if different) MONTH April 19 99
 STATE MARYLAND COUNTY Washington RIVER
 TIME (local) OF OBSERVATION RIVER TEMP. 7:30 - 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
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. 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.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, hail, ice on ground (ins.)		1	2	3	4	5	6	7	8	9	10	11											1	
1	59	50	53	.49																									
2	70	51	52	.0																									
3	72	51	57	.0																									
4	72	45	41	.09																									
5	58	38	41	.02																									
6	64	37	54	.0																									
7	73	43	46	.0																									
8	84	40	54	.0																									
9	61	44	41	.48															X										
10	58	40	42	.01																									
11	49	39	49	.76															X										
12	54	43	37	.0																									
13	61	37	38	.0																									
14	67	38	38	.01																									
15	56	38	45	.04																									
16	63	40	49	.01																									
17	54	37	42	.0																									
18	55	39	40	.0																									
19	56	36	43	.02																									
20	54	37	32	.15																									
21	53	31	43	.11																									
22	80	43	49	.22															X										
23	60	48	35	.20																									
24	61	35	32	.0																									
25	61	32	32	.0																									
26	76	31	46	.0																									
27	65	42	48	.0																									
28	64	44	40	.0																									
29	67	38	43	.0																									
30	67	42	37	.0																									
31																													
SUM			SUM	2.61																									

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

READING DATE OBSERVER SUPERVISING OFFICE STATION INDEX NO.

STATION (Clin. ^{a)} <u>University of Md WMREC</u>	(River Station, if different)	MONTH <u>MAY</u>	19 <u>99</u>
STATE <u>MARYLAND</u>	COUNTY <u>Washington</u>	RIVER	
TIME (local) OF OBSERVATION RIVER		TEMP. <u>7:30 - 7:30AM</u>	PRECIPITATION
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 OBSN.	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.						CONDITION Time of observation if different from above	GAGE READING AT A.M.	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.				Fog	Ice Pellets	Glaze	Thunder	Hail	Damaging Winds								
							1	2	3	4	5	6	7	8	9											10	11	1	2	
	1	69	36	46	0																									
2	72	41	42	0																										
3	60	37	48	.02																										
4	76	47	56	0																										
5	75	51	59	0																										
6	64	58	60	0																										
7	72	60	60	.01																										
8	75	59	59	.58																										
9	72	53	49	0																										
10	76	48	48	0																										
11	75	55	55	0																										
12	82	54	42	.64																										
13	63	55	53	.0																										
14	64	42	42	.0																										
15	71	42	42	.0																										
16	69	41	48	.0																										
17	72	49	49	.0																										
18	75	60	60	.0																										
19	71	63	52	.0																										
20	75	49	43	.0																										
21	77	47	55	.0																										
22	75	55	55	.0																										
23			60	.51																										
24	70	68	49	.06																										
25	68	60	53	.0																										
26	74	53	55	.0																										
27	74	49	49	.0																										
28	83	43	52	.0																										
29	87	47	57	.0																										
30	88	54	58	.0																										
31	88	55	60	.0																										

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 READING _____ DATE _____ OBSERVER <u>David Wylant Jr.</u> SUPERVISING OFFICE _____ STATION INDEX NO. _____
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STATION (Climate) *University of Md. W.M.R.E.C* (River Station, if different)
 STATE *Maryland* COUNTY *Washington* MONTH *Aug* 19 *99*
 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.

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		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.)	Fog Ice Pellets Glaze Thunder Hail Damaging Winds										
						A.M.		NOON		P.M.						
1	89	70	60	.74												
2	83	59	57	.01												
3	85	56	56	.0												
4	86	56	61	.0												
5	85	61	59	.0												
6	89	55	65	.0												
7	68	60		.01												
8			48	0												
9	78	54	49	.0												
10	84	49	62	.0												
11	90	61	59	.0												
12	90	58	70	.0												
13	93	68	69	.03												
14	87	69	69	.62												
15	80	63	57	.01												
16	86	56	65	.0												
17	95	65	62	.0												
18	86	62	57	.0												
19	84	56	65	.0												
20	82	65	62	.0												
21	78	59	62	.0												
22	82	57	53	.0												
23	84	53	67	.0												
24	80	67	68	.0												
25	78	67	68	.40												
26	80	64	65	.92												
27	78	64	61	.08												
28	85	61	65	.01												
29	86	64	59	.0												
30	73	52	47	.0												
31	74	47	51	.0												
SUM			SUM	2.83												

CONDITION OF RIVER AT GAGE READING DATE

OBSERVER *David Weyard Jr.* 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.

STATION (Climate)	University of Md WAREX (River Station, if different)	MONTH	Oct	19	99
STATE	Maryland	COUNTY	Washington	RIVER	
TIME (local) OF OBSERVATION		TEMP.	7:30 AM - 7:30 AM	PRECIPITATION	
TYPE OF RIVER GAGE		ELEVATION OF RIVER GAGE ZERO	Ft.	FLOOD STAGE	Ft.
			Ft.	NORMAL POOL STAGE	Ft.

ORM B-91
3)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATION.

U.S. DEPARTMENT OF COMMERCE
MINISTRATION
OTHER 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. 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	TENDENCY				
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, hail, ice on ground (ins.)		1	2	3	4	5	6	7	8	9											10	11	1	
1	71	41	43	.0																									
2	74	43	50	.0																									
3	75	49	59	.0																									
4	65	51	43	1.14															X										
5	57	33	37	.0																									
6	67	36	37	.0																									
7	56	36	43	.0																									
8	63	37	51	.0																									
9	71	51	63	.13																									
10	72	62	60	.75																									
11	71	45	38	.24																X									
12	66	37	50	.01																									
13	71	47	49	.03																									
14	61	37	32	.0																									
15	62	32	41	.0																									
16	68	40	46	.0																									
17	64	45	50	.01																									
18	60	38	37	.0																									
19	54	34	48	.02																									
20	55	40	32	.15																									
21	59	32	37	.0																									
22	59	35	41	.01																									
23	52	41	43	.03																									
24	54	38	33	.0																									
25	61	32	40	.0																									
26	67	36	33	.0																									
27	58	33	29	.0																									
28	58	29	34	.0																									
29	71	33	36	.0																									
30	69	35	43	.0																									
31	76	42	48	.0																									
SUM			SUM	2.52																									

First Light Frost in Low areas

CONDITION OF RIVER AT GAGE	READING	DATE	OBSERVER
<ul style="list-style-type: none"> 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. 			
			SUPERVISING OFFICE
			STATION INDEX NO.

STATION (Climate) **University of Md. WMREC** (River Station, if different)
 STATE **Maryland** COUNTY **Washington** MONTH **Nov.** 19 **99**
 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 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		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	TENDENCY				
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, hail, ice on ground (ins.)		1	2	3	4	5	6	7	8	9												10	11	1
1	71	46	58	.0																									
2	67	45	40	.54																									
3	47	37	26	.0																									
4	58	26	39	.0																									
5	66	37	49	.0																									
6	72	44	37	.0																									
7	54	33	28	.0																									
8	55	28	34	.0																									
9	74	33	49	0																									
10	71	47	58	0																									
11	66	44	42	.0																									
12	48	39	39	.0																									
13	62	35	48	.0																									
14	70	40	41	.0																									
15	48	40	38	.0																									
16	45	35	29	.0																									
17	44	24	21	.0																									
18	53	20	21	.0																								Heavy Frost	
19	59	28	29	.0																									
20	64	38	41	.01																									
21	69	40	46	.0																									
22	65	46	53	.01																									
23	59	51	52	.01																									
24	66	50	48	.0																									
25	59	46	49	.28																									
26	64	46	26	.22																									
27	59	45	35	.13																									
28			25	.0																									
29	44	25	27	.0																									
30	37	21	21	.0																									
31																													
SUM			SUM	1.20																									

CONDITION OF RIVER AT GAGE READING DATE OBSERVER **David Wlyed Jr.** SUPERVISING OFFICE STATION INDEX NO.

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.

STATION (Climate) *University of Md. WMREC* (River Station, if different)
 STATE *Maryland* COUNTY *Washington* MONTH *Dec* 19 *99*
 TIME (local) OF OBSERVATION *7:30 Am - 7:30 Am* RIVER
 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
 RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS
 F. COMMERCE ADMINISTRATION OTHER SERVICE

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. 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		GAGE READING AT A.M.	TENDENCY
	MAX.	MIN.		Rain, melted snow, etc. (ins. and hundredths)	Snow, ice pellets, (ins. and tenths)												
1	36	21	18	.0													
2	47	18	27	.0													
3	61	24	47	.0													
4	63	39	38	.0													
5	64	34	50	.0													
6	57	40	39	.26													
7	53	38	20	.0													
8	48	13	16	.0													
9	53	24	34	.0													
10	49	38	34	.0													
11	46	28	27	.0													
12	48	22	37	.65													
13	41	26	41	.68													
14	43	37	38	.63													
15	40	38	39	.0													
16	45	26	33	.0													
17	47	24	32	.0													
18	47	32	33	.0													
19	41	30	36	.16													
20	41	34	34	.24													
21	42	30	31	.0													
22	37	20	20	.0												light snow flurries	
23	42	17	18	.0													
24	27	13	13	.0													
25	28	9	23	.0													
26	42	15	28	.0													
27	34	27	16	.0													
28	31	15	26	.0	T											light snow	
29	38	21	32	.0													
30	52	28	36	.0													
31	54	24	22	.0													

CHECK BAR (For wire-weight) NORMAL CK. BAR																	
READING	DATE	Fog	Ice Pel.	Glaze	Thund.	Hail	Dam. Winds	OBSERVER								STATION INDEX NO.	
								<i>David Wlyand Jr</i>									

CONDITION OF RIVER AT GAGE
 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.

SUM 2.56
 SUPERVISING OFFICE
 STATION INDEX NO.