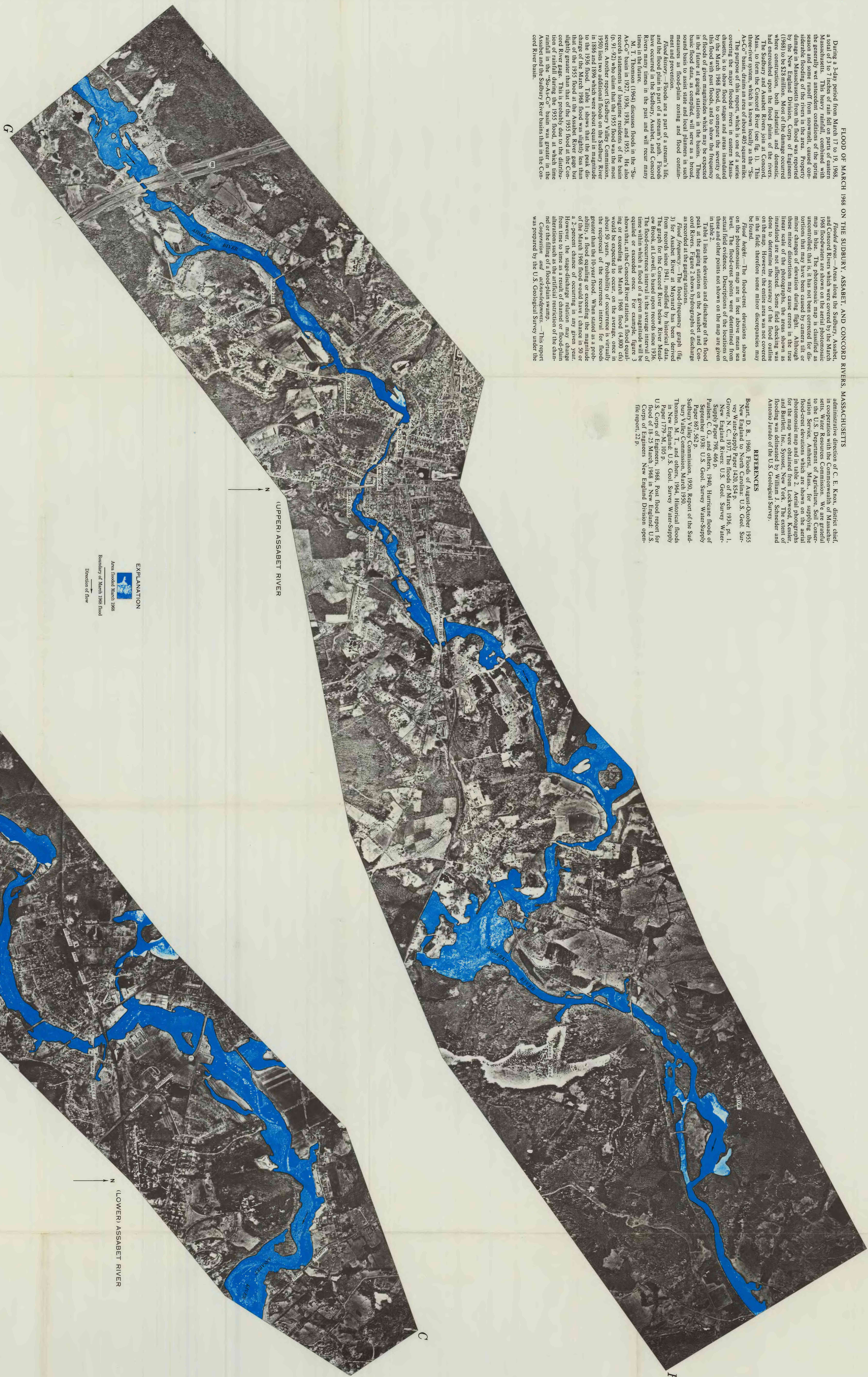


FLOOD OF MARCH 1968 ON THE SUDBURY, ASSABET, AND CONCORD RIVERS, MASSACHUSETTS

During a 3-day period from March 17 to 19, 1968, a total of 3 to 7 inches of rain fell on parts of eastern Massachusetts. The rain was accompanied by strong winds, the generally wet antecedent conditions of the spring season and some runoff from snowmelt, caused considerable damage in Massachusetts from the flood was reported by the New England Division, Corps of Engineers, United States Army. The flood was the most serious since the construction of the flood plain of the river, where construction, both industrial and domestic, had encroached upon the flood plains of the river, Massachusetts, to form the Concord River (see fig. 1). This river, which is known locally as the Sudbury River, is a tributary of the Concord River.

The purpose of this report, which is one of a series covering the major flood rivers in eastern Massachusetts, is to provide a basis for comparison of the March 1968 flood to compare the severity of flood of an area which may be expected in the future at gaging stations in the basin. These flood data are presented in the form of a flood frequency graph, which is a plot of the peak discharge of floods of a given recurrence interval against the recurrence interval. The flood frequency graph is a plot of the peak discharge of floods of a given recurrence interval against the recurrence interval. The flood frequency graph is a plot of the peak discharge of floods of a given recurrence interval against the recurrence interval.

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EXPLANATION  
Assabet River  
Boundary of March 1968 flood  
Direction of flow

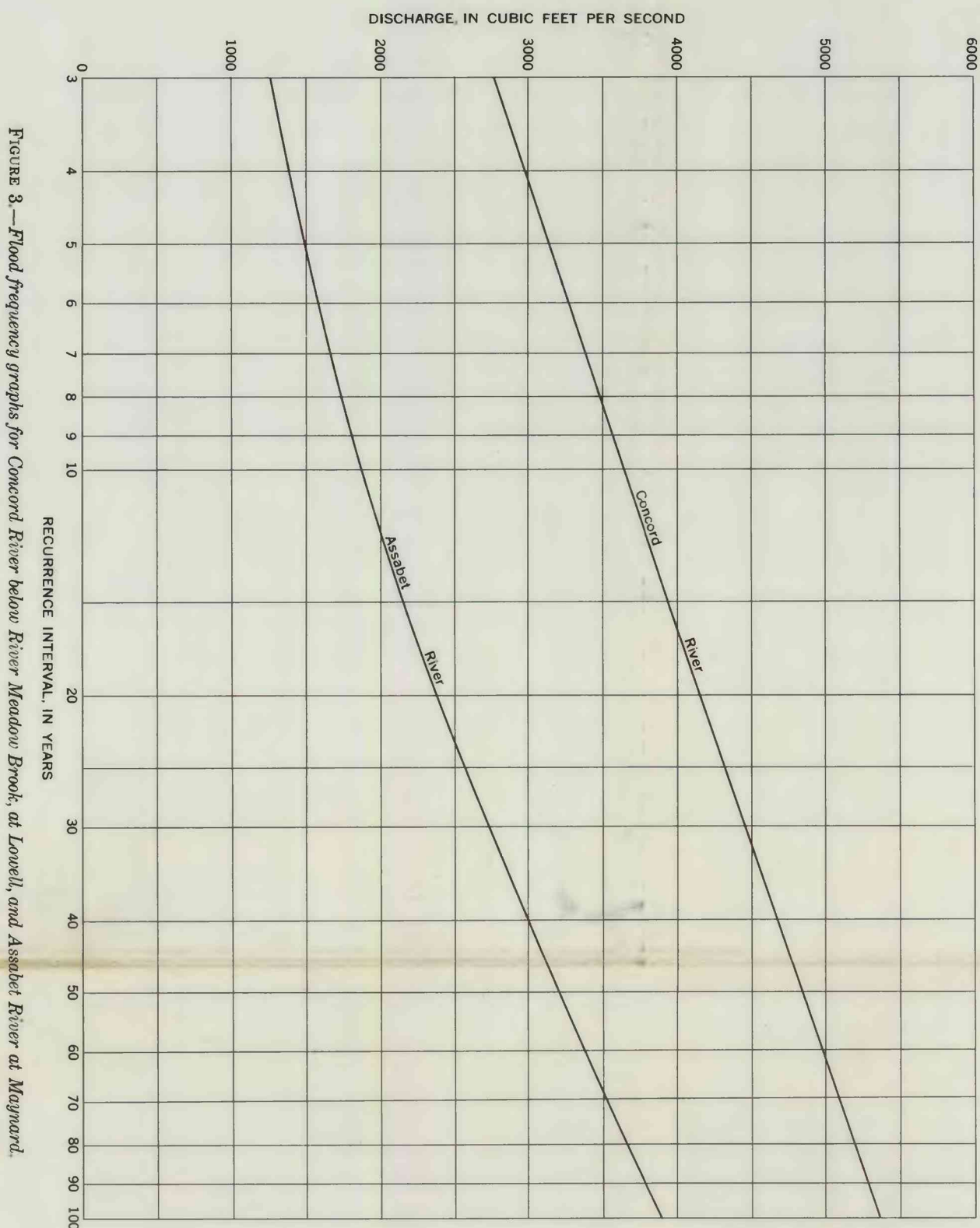
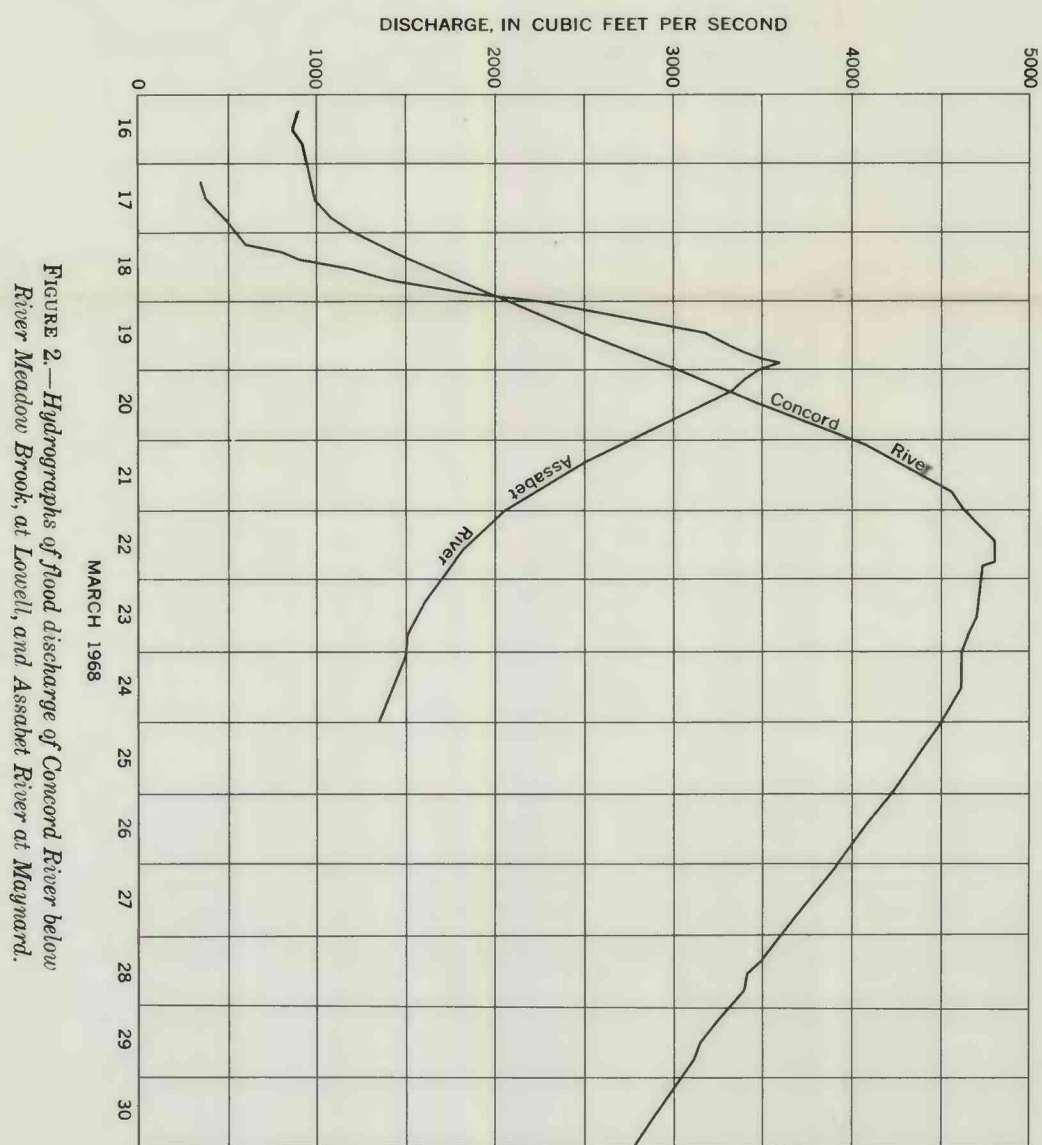
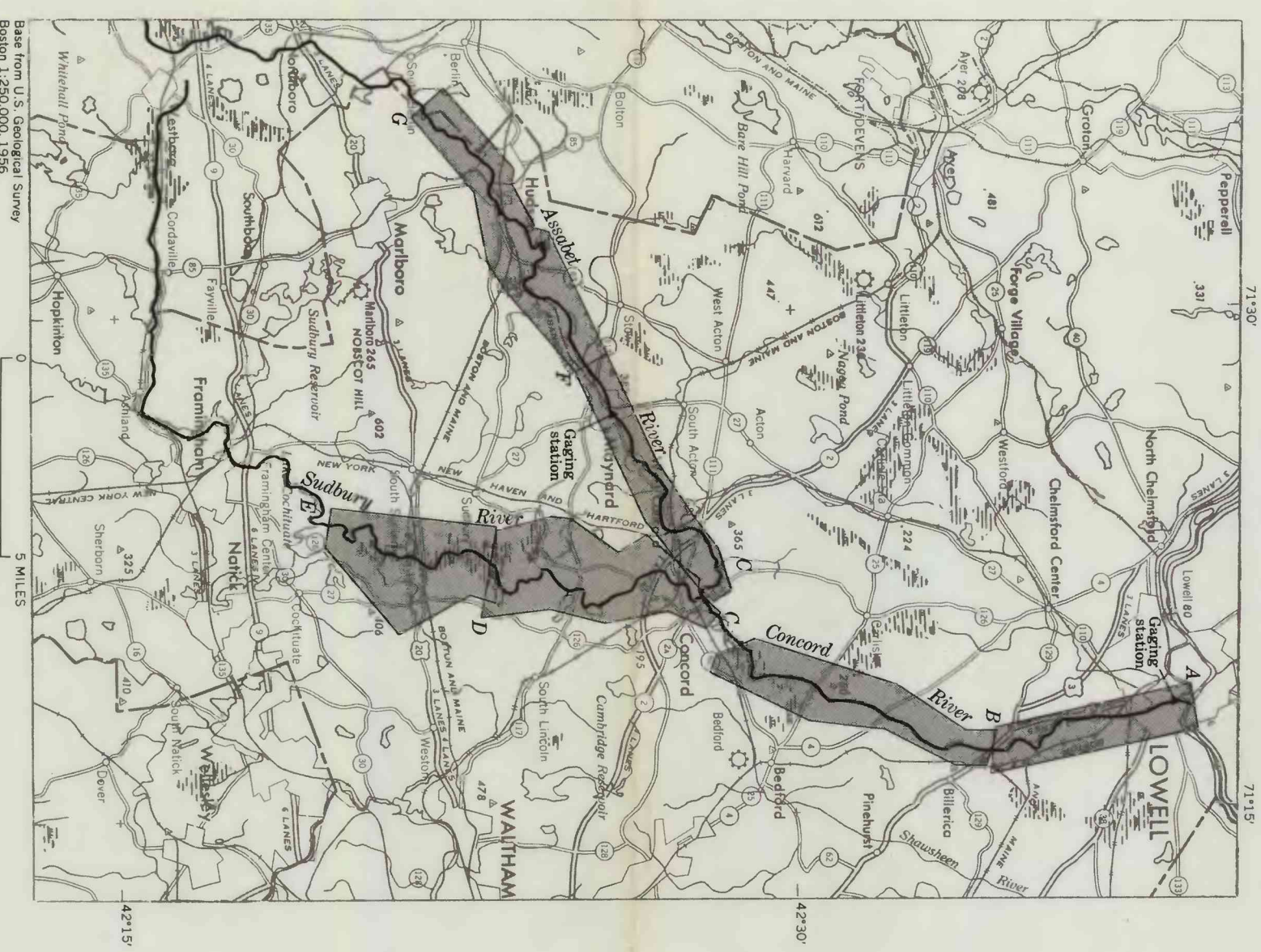


Table 1.—Comparison of flood Assabet and Concord Rivers

Assabet River	Concord River
Maximum flood period: 1968	Maximum flood period: 1968
Discharge (cfs) - peak at bridge (1)	Discharge (cfs) - peak at bridge (1)
Discharge (cfs) - peak at bridge (2)	Discharge (cfs) - peak at bridge (2)
Discharge (cfs) - peak at bridge (3)	Discharge (cfs) - peak at bridge (3)
Discharge (cfs) - peak at bridge (4)	Discharge (cfs) - peak at bridge (4)
Discharge (cfs) - peak at bridge (5)	Discharge (cfs) - peak at bridge (5)
Discharge (cfs) - peak at bridge (6)	Discharge (cfs) - peak at bridge (6)
Discharge (cfs) - peak at bridge (7)	Discharge (cfs) - peak at bridge (7)
Discharge (cfs) - peak at bridge (8)	Discharge (cfs) - peak at bridge (8)
Discharge (cfs) - peak at bridge (9)	Discharge (cfs) - peak at bridge (9)
Discharge (cfs) - peak at bridge (10)	Discharge (cfs) - peak at bridge (10)

Bridge	Type	Location	Product	Peak discharge (cfs)
ASHLEY RIVER				
A-1	Timber	Upstream side of bridge	On upstream side of bridge	2073
A-2	Timber	Peak of bridge	On upstream side of bridge	2073
A-3	Timber	Peak of bridge	On upstream side of bridge	2073
A-4	Timber	Peak of bridge	On upstream side of bridge	2073
A-5	Timber	Peak of bridge	On upstream side of bridge	2073
A-6	Timber	Peak of bridge	On upstream side of bridge	2073
A-7	Timber	Peak of bridge	On upstream side of bridge	2073
A-8	Timber	Peak of bridge	On upstream side of bridge	2073
A-9	Timber	Peak of bridge	On upstream side of bridge	2073
A-10	Timber	Peak of bridge	On upstream side of bridge	2073
A-11	Timber	Peak of bridge	On upstream side of bridge	2073
A-12	Timber	Peak of bridge	On upstream side of bridge	2073
A-13	Timber	Peak of bridge	On upstream side of bridge	2073
A-14	Timber	Peak of bridge	On upstream side of bridge	2073
A-15	Timber	Peak of bridge	On upstream side of bridge	2073
A-16	Timber	Peak of bridge	On upstream side of bridge	2073
A-17	Timber	Peak of bridge	On upstream side of bridge	2073
A-18	Timber	Peak of bridge	On upstream side of bridge	2073
A-19	Timber	Peak of bridge	On upstream side of bridge	2073
A-20	Timber	Peak of bridge	On upstream side of bridge	2073
A-21	Timber	Peak of bridge	On upstream side of bridge	2073
A-22	Timber	Peak of bridge	On upstream side of bridge	2073
A-23	Timber	Peak of bridge	On upstream side of bridge	2073
A-24	Timber	Peak of bridge	On upstream side of bridge	2073
A-25	Timber	Peak of bridge	On upstream side of bridge	2073
A-26	Timber	Peak of bridge	On upstream side of bridge	2073
A-27	Timber	Peak of bridge	On upstream side of bridge	2073
A-28	Timber	Peak of bridge	On upstream side of bridge	2073
A-29	Timber	Peak of bridge	On upstream side of bridge	2073
A-30	Timber	Peak of bridge	On upstream side of bridge	2073
A-31	Timber	Peak of bridge	On upstream side of bridge	2073
A-32	Timber	Peak of bridge	On upstream side of bridge	2073
A-33	Timber	Peak of bridge	On upstream side of bridge	2073
A-34	Timber	Peak of bridge	On upstream side of bridge	2073
A-35	Timber	Peak of bridge	On upstream side of bridge	2073
A-36	Timber	Peak of bridge	On upstream side of bridge	2073
A-37	Timber	Peak of bridge	On upstream side of bridge	2073
A-38	Timber	Peak of bridge	On upstream side of bridge	2073
A-39	Timber	Peak of bridge	On upstream side of bridge	2073
A-40	Timber	Peak of bridge	On upstream side of bridge	2073
A-41	Timber	Peak of bridge	On upstream side of bridge	2073
A-42	Timber	Peak of bridge	On upstream side of bridge	2073
A-43	Timber	Peak of bridge	On upstream side of bridge	2073
A-44	Timber	Peak of bridge	On upstream side of bridge	2073
A-45	Timber	Peak of bridge	On upstream side of bridge	2073
A-46	Timber	Peak of bridge	On upstream side of bridge	2073
A-47	Timber	Peak of bridge	On upstream side of bridge	2073
A-48	Timber	Peak of bridge	On upstream side of bridge	2073
A-49	Timber	Peak of bridge	On upstream side of bridge	2073
A-50	Timber	Peak of bridge	On upstream side of bridge	2073
A-51	Timber	Peak of bridge	On upstream side of bridge	2073
A-52	Timber	Peak of bridge	On upstream side of bridge	2073
A-53	Timber	Peak of bridge	On upstream side of bridge	2073
A-54	Timber	Peak of bridge	On upstream side of bridge	2073
A-55	Timber	Peak of bridge	On upstream side of bridge	2073
A-56	Timber	Peak of bridge	On upstream side of bridge	2073
A-57	Timber	Peak of bridge	On upstream side of bridge	2073
A-58	Timber	Peak of bridge	On upstream side of bridge	2073
A-59	Timber	Peak of bridge	On upstream side of bridge	2073
A-60	Timber	Peak of bridge	On upstream side of bridge	2073
A-61	Timber	Peak of bridge	On upstream side of bridge	2073
A-62	Timber	Peak of bridge	On upstream side of bridge	2073
A-63	Timber	Peak of bridge	On upstream side of bridge	2073
A-64	Timber	Peak of bridge	On upstream side of bridge	2073
A-65	Timber	Peak of bridge	On upstream side of bridge	2073
A-66	Timber	Peak of bridge	On upstream side of bridge	2073
A-67	Timber	Peak of bridge	On upstream side of bridge	2073
A-68	Timber	Peak of bridge	On upstream side of bridge	2073
A-69	Timber	Peak of bridge	On upstream side of bridge	2073
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A-71	Timber	Peak of bridge	On upstream side of bridge	2073
A-72	Timber	Peak of bridge	On upstream side of bridge	2073
A-73	Timber	Peak of bridge	On upstream side of bridge	2073
A-74	Timber	Peak of bridge	On upstream side of bridge	2073
A-75	Timber	Peak of bridge	On upstream side of bridge	2073
A-76	Timber	Peak of bridge	On upstream side of bridge	2073
A-77	Timber	Peak of bridge	On upstream side of bridge	2073
A-78	Timber	Peak of bridge	On upstream side of bridge	2073
A-79	Timber	Peak of bridge	On upstream side of bridge	2073
A-80	Timber	Peak of bridge	On upstream side of bridge	2073
A-81	Timber	Peak of bridge	On upstream side of bridge	2073
A-82	Timber	Peak of bridge	On upstream side of bridge	2073
A-83	Timber	Peak of bridge	On upstream side of bridge	2073
A-84	Timber	Peak of bridge	On upstream side of bridge	2073
A-85	Timber	Peak of bridge	On upstream side of bridge	2073
A-86	Timber	Peak of bridge	On upstream side of bridge	2073
A-87	Timber	Peak of bridge	On upstream side of bridge	2073
A-88	Timber	Peak of bridge	On upstream side of bridge	2073
A-89	Timber	Peak of bridge	On upstream side of bridge	2073
A-90	Timber	Peak of bridge	On upstream side of bridge	2073
A-91	Timber	Peak of bridge	On upstream side of bridge	2073
A-92	Timber	Peak of bridge	On upstream side of bridge	2073
A-93	Timber	Peak of bridge	On upstream side of bridge	2073
A-94	Timber	Peak of bridge	On upstream side of bridge	2073
A-95	Timber	Peak of bridge	On upstream side of bridge	2073
A-96	Timber	Peak of bridge	On upstream side of bridge	2073
A-97	Timber	Peak of bridge	On upstream side of bridge	2073
A-98	Timber	Peak of bridge	On upstream side of bridge	2073
A-99	Timber	Peak of bridge	On upstream side of bridge	2073
A-100	Timber	Peak of bridge	On upstream side of bridge	2073
CONCORD RIVER				
C-1	Timber	Peak of bridge	On upstream side of bridge	1139