IMPROVEMENT OF RIVERS AND HARBORS

COMMUNICATION

FROM

THE ASSISTANT SECRETARY OF THE ARMY (CIVIL WORKS)

TRANSMITTING

A REPORT FROM THE CHIEF OF ENGINEERS, DEPART-MENT OF THE ARMY, COMPILING THE PRELIMINARY EXAMINATION, SURVEY, AND REVIEW REPORTS ON RIVER AND HARBOR, FLOOD CONTROL, AND BEACH EROSION CONTROL IMPROVEMENTS TRANSMITTED TO CONGRESS AS OF DECEMBER 31, 1974, REQUESTED BY AN ITEM ON PAGE 4 ON HOUSE REPORT NO. 91-1665



DECEMBER 16, 1975.—Referred to the Committee on Public Works and Transportation and ordered to be printed

U.S. GOVERNMENT PRINTING OFFICE

63-562 O

WASHINGTON: 1975

LETTER OF TRANSMITTAL

DEPARTMENT OF THE ARMY,
OFFICE OF THE ASSISTANT SECRETARY,
Washington, D.C., November 14, 1975.

Hon. Carl Albert, Speaker of the House of Representatives, Washington, D.C.

Dear Mr. Speaker: I am transmitting herewith a report dated November 3, 1975 from the Chief of Engineers, Department of the Army, on the compilation of preliminary examination, survey, and review reports transmitted to Congress as of December 31, 1974, on river and harbor, flood control, and beach erosion control improvements, requested by an item on page 4 of House Report 91–1665, 91st Congress, second session, which accompanied H.R. 19877, a bill authorizing the construction, repair, and preservation of certain public works.

Sincerely,

VICTOR V. VEYSEY,
Assistant Secretary of the Army
(Civil Works).

(III)

LETTER OF SUBMITTAL

REPORT OF THE CHIEF OF ENGINEERS, DEPARTMENT OF THE ARMY

DEPARTMENT OF THE ARMY, OFFICE OF THE CHIEF OF ENGINEERS, Washington, D.C., November 3, 1975.

DAEN-CWP-A

Subject: Revision of House Document No. 92-191, 92d Congress, Second Session.

The Secretary of the Army

1. I submit for transmission to Congress a revised edition of pages 1 to 516, inclusive, of the report printed in House Document No. 92-191, 92d Congress, second session, extending the compilation of preliminary examination, survey, and review reports on river and harbors and flood control improvements to December 31, 1974, as directed by Congress on page 4 of House Report of the Committee on Public Works No. 91-1665, 91st Congress, second session.

2. The request for revision of the compilation is as follows: Section 107 of the River and Harbor Act of 1962 authorized and directed the Secretary of the Army to prepare and transmit to Congress a compilation of survey and review reports on river and harbor and flood control improvements. The last report submitted pursuant to this section was in 1972. It is the Committee's desire that the compilation be brought up-to-date and kept current through regular supplemental submissions to the Congress.

3. The report as now revised lists data on all preliminary examination, survey, and review reports made to December 31, 1974, on river and harbor and flood control improvements, together with data on cooperative beach erosion control studies. Publication of the data in

document form is recommended.

W. C. Gribble, Jr., Lieutenant General, USA, Chief of Engineers.

IMPROVEMENT OF RIVERS AND HARBORS

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974

		Preliminary	examinations			Surveys				Where	e publist	ed	·	
		Data of Bassana D						Recommen- dation of the	Congre	essional d	ocument	s	Ann repo Chie Engi	rt of
	Locality	Date of report	Recommen- dation	Date of report		Estimated project cost	Recommen- dation	Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
	A													
<u> </u>	Abbapoola Creek, Johns Island, S.C	Oct. 28, 1930	Favorable	-::		**		Unfavorable	. (1)					
Ē	Abbeville, S.C	July 6, 1937	do	May 2	8, 1938 1 1972		Favorable Unfavorable				76	1		
	Aberdeen Creek, Gloucester County, Va	Mar. 20, 1950	do	Jan. 2	6.1962			Unfavorable	(i)					
	Abita River, La	May 16, 1911	Unfavorable		•			do	H	428	62	2		
	Absecon Creek, N.Y Absecon Inlet, N.J. (see also Atlantic City Har-		Favorable	Oct. 2	1,1911 11880	15,000	Favorable	Favorable	. н	*71	62	1	1 001	
	bor and Beach Thoroughfare and New Jersey			Jan. 1			Favorable				55	<u>-</u> -	1881 1898	831 1125
	coast flocd control).	Sept. 15, 1909	Favorable	Oct. 2	5, 1909	645, 000)	do	Unfavorable	. н	747	61	2		
		Sept. 28, 1910	do	Jan.	7, 1911 `	190,000	do	Favorable	H	1 305	61	3		
		Jan. 6, 1921	do	May 1	2, 1922 {	900,000	do		-}H	375	67	,	••••	
		June 14, 1926	Unfavorable		. (.	240, 000		. ravorable Unfavorable	(1)	•.•	•	-		
	Datasan Atlantic Oits and Deigratine Deach	0-1-04-1004	4.	Nov. 2	6, 1945	16,000		. Favorable	. Н	*504	79	2		·
	Between Atlantic City and Brigantine Beach. To Brigantine Inlet, channel back of Brigan-	UCI. 24, 1894	00	Dec. 2	1.1886	100 000	Unfavorable	. Untavorable	- Н. EX	79 58	53 50	3	1895 1887	1094 821
	tine Beach.				-,	,	***************************************			30	30		100/	021
	Academy Creek, Ga. (See Brunswick Harbor, Ga.)								`					
	Accotink Bay, Va			Jan. 2	2, 1872	19,000	Favorable		S. Ex	35	42	2	1872	707
	bor, Mass.)													
-	Adam's Bayou, Sabine River, Tex			Apr. 11	, 1946 *	73,000	· · · · · · · · · · · · · · · · · ·	Favorable	. н	*626	79	2		
	1 Report not published.					² Interim ı	report.							

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congres	sional do	cuments		Ann repoi Chie Engin	rt of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber		Ses- sion	Year	Page
ams Creek, N.J	Sept. 9, 1915	Unfavorable				Unfavorable	. н	534	64	1 .		
petween Albany and Troy.) ams (Tobias) Landing, Vt miralty Inlet to Crocket Lake, Wash ignak, ocean fronlage, Alaska	Sept. 3, 1892 Mar. 20, 1914	do				do do	H. Ex H	64 •983	52 63	2 2	1893	3215
on Harbor, Minn. (See St. Croix Lake, etc.) ate and Burlington Bays, Minn. (see also								94	48	2	1885	1954
Burlington Bay.) ate Bay Harbor (Two Harbors), Minn				90, 400 1, 876, 000	Favorable	Favorable	. H. Com H	*17 *805	72 78	1 2		
icultural Areas from Mile 195 to Mile 300 bove the Ohio River. (See Mississippi River) adilla Harbor, P.R	Mar. 2,1936 Mar. 19,1942	Unfavorable Favorable	Aug. 19, 1943			Unfavorable	- (1) - (1)	· · · · · · · · · · · · · · · · · · ·				•••••
napee River and Harbor, Wis			. Mar. 9,1971	370 000	Untavorable Favorable	Untavorable Favorable	- (¹) H	60	41	3	1871 1876	125 *346
	Sept. 19, 1925	Unfavorable	Dec. 16,1875 Dec. 31,1896	19, 266	Unfavorable	Unfavorable do	. H . (¹) H. Com	•172 20	54 61	<u>2</u>	1897	2755
bama Coast (See Hurricane studies) bama-Coosa Rivers, Ala. and Ga bama and Coosa Rivers, Ala. (see also Coosa			Oct. 9, 1959	129 300 000			Н	*320	86 60	2 2		
iver and Etowah, etc., and Mobile River and ibutaries, salinity). bama-Coosa branch of Mobile River system, labama and Georgia (see also Prattville, la.). a.). bama River, Ala. (see also Etowah, etc.;			Oct. 15, 19413	60, 000, 000 229, 741	· (')	} Favorable			74 77	1		498

River, Ala. and Fla.).				10, 1890	386, 251	do		H. Ex	140	51	2 189	91 17	61
****			Nov.	15, 1905	650,000	do	Favorable	H	378	59	1		
At Montgomery, Ala Between Montgomery and Selma u Waterway to Escambia River, Fla. and Ala Alafia River, Fla. (see also Tampa Harbor) Fe		0.4	Dec.	10, 1946	* 1, 284, COO		do	H	*83	85	ļ		
Between Montgomery and Seima	ny 31, 1911	Uniavorable		20 1050			Uniavorable	. п	1115	62	3		
Materway to Escambia River, Fla. and Ala	sh 6 1000	Favorable	. mar.	20, 1936			ao	. (')		- - -	100		ē÷
Alana River, ria. (see also rampa harbor) re	eD. 3, 1889	IInfavorable					do	/i\	- -		188	59 13:	>/
,,	eu. 17, 1331	Ulliavoiable	Διισ	1 1040	199 000	Favorable	Favorable	(,,	*16	55	1		
Alameda Creek, Calif	ov 27 1882	do	wag.	1, 1340	103,000	ravulable	ravolable	. S	30	48		4 220	
·	107 21 1042	do					Hofovoroblo	(1)					
Alameda Harbor, Calif D. D. Alamicut River, Wash A. Alamitos Bay, Calif M.	10, 21, 1012		Aug	16 1962	6 14 680 000	Favorable	Favorable		*128	87	2		
Alameda Harbor, Calif	ec. 5.1927	do	/\u_ 6 .	10, 1502	11,000,000	141014510	Unfavorable	(1)	120	0,			
Alamicut River, Wash	ug. 16, 1909	do					do	Н	302	61	2		
Alamitos Bay Calif M	lar. 18, 1936	do					do	(1)	002	٠.			
			Sent.	13.1934			00	(1)					
Alamitos Bay, Los Angeles County, Calif	eb. 3.1939	Favorable	May	4. 1942			do	(1)					•
Alamitos Bay, Los Angeles County, Calif Fe Alamogordo, N. Mex., streams at and in vicinity			. May	21, 1962	7 2, 100, 000		Favorable	. H	*473	87	2		
of .													••
Alapaha River and tributaries, Ga			Nov.	30. 1972		Unfavorable	Unfavorable	(1)					
Alaqua Bayou, Fla Se	ept. 16, 1892	Unfavorable					Unfavorable	H. Ex	86	52	2 189	3 173	38
Alaska:													
Harbors and rivers in			Nov.	12, 1953	1, 322, 100		Favorable	. H	*414	83	2		
Northwestern			. Jan.	15, 1959			Unfavorable	. Н	+99	86	1		
Southeastern			Apr.	8, 1954	8 3, 471, 900		Favorable	. Н	*501	83	2		
Southwestern			Dec.	29, 1955	355,000		do	. Н	*390	84	2		
Alaska Roads. (See Nome-Shelton, Kugruk					•								-
River, etc.).													
Albany Harbor, Calif. (See Oakland Harbor, etc.)													
Albany, Berkeley, and Emeryville Harbors, De	ec. 10, 1934	Unfavorable					Unfavorable	(1)					
Calif. (see also Berkeley Harbor, Calif.).													
Albany to Schenectady, N.Y., waterway by way M.	ar. 5, 1938	do					do	(1)					
of Hudson and Mohawk Rivers.													
Albemarie and Chesapeake Canal. (See Norfolk													
Harbor to Atlantic Ocean, etc.)													
Albemarle Sound, N.C., ship channel to Atlantic			(Feb.	12, 1829	327, 734)		•	100				
Ocean (see also Norfolk Harbor to Albemarie			10ct.	20, 1843	2, 083, 037	}		. 5	106	20	Z		
Sound, Inland Waterway).			•			•							
Albemarie Sound, N.C., to and including Ocra- coke and Beaufort inlets (see also Core A	ua 9 1000	Eavorable	2 Nov	22 1000 (1, 611, 500	Favorable	Favorable	u	202	56	2 10/	01 15	11
Sound).	ng. 0, 1300	ravorable	_ • INOV.	. 22, 1900	3, 597, 000	}ravulaule	ravorable		202	20	2 190	11 13	11
Albamaria Sound to Point Harbor N.C. No.	ov 3 1927	Unfavorable					Unfavorable	(1)					
Albemarle Sound to Point Harbor, N.C	07. 0, 1927	Omavolable	8 Nov	29 1948	\$26 995 000		Favorable	·	*Q	81	1		
(Columbia River).	•		1104	. 23, 1340	4 20, 333, 000				•	01	•		• •
,													
1 Papart not published					f Lookudos	• \$4 070 000 cach o	antribution on Ea	daret nerticineti		of Dallall	a Dasar	unir ta b	

¹ Report not published.
2 Plus \$20,600,000, at such time as waterway to Gadsen, Ala., is assured, for reach between Gadsen, Ala., and Rome, Ga.
4 Interim report.
4 Abandonment of project recommended.
4 Plus cash contribution by local Interests, estimated at \$182,000, of 12 percent of the first cost of

improvement.

Includes \$4,070,000 cash contribution as Federal participation in cost of DeValle Reservoir to be constructed by State of California. Federal participation is based on 30.7 percent not to exceed \$4,080,-000.
7 Plus non-Federal cost of \$450,000.
8 Initial construction cost estimated at \$2,473,000.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary examination							Where	publish	ed		
						Recommen-	Congres	sional do	cuments		Anr repo Chie Engir	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Alentki Island, Alaska. (See Sitka Harbor, Alaska.) Alexandria Bay Harbor, N.Y.	(Jan. 9.1897 (Dec. 28,1935	Unfavorable				Unfavorable	. Н . (¹)	205	54		1897	3312
Alexandria Harbor, La. (See Red River.) Alexandria Harbor, Va. (See Potomac River at Alexandria.) Algiers, La. (See Intracoastal Waterway from the Mississippi River at New Orleans; Mis- sissippi River at New Orleans to Corpus Christi, Intracoastal Waterway; and Intra- coastal Waterway in the vicinity of Algiers at New Orleans, La.) Algoma Harbor, Wis. (see also Ahnapee Harbor). Algonac, on St. Clair River, Mich.	. Feb. 3,1941	do				do	. (1)				1889	22 8 5
Alhambra Creek and tributaries, California	Nov. 10, 1948					do	- (1)					
Alice, Tex., streams in vicinity ofAlkali Canyon, Oreg Alkali Canyon, Oreg Allapatchee River (Alligator Creek), Fla	Sept. 17, 1958 Nov. 7, 1939 May 18, 1939	Favorable Unfavorable	Nov. 6, 1941	118,000	1 avoiable	Unfavorable Favorable Unfavorable	- (1) - H - (1)	*631	77	<u>-</u> 2		
Allatoona Creek, Ga. (See Alabama-Coosa branch of Mobile River system.) Allatoona Dam. Allatoona Dam, Etowah River, Ga. (See Alabama-			June 3, 1939³	13, 090, 000	Favorable	. Favorable	. н	* 674	76	3		- -
Coosa branch of Mobile River system.) Allegheny and Monongahela Rivers and tribu- taries. Allegheny and Monongahela Rivers, W. Va., Pa., and Md. (See Lovalhanna Creek, at Latrobe.			Jan. 23, 1953	6 86, 000		do	. Н	*491	83	2		

Ç

Pa.; Turtle	Creek, Pa.;	Youghiogheny	River.
Pa. and Md.).		

. and Md.). heny-Genessee Rivers, N.Y. and Pa. Allegheny River to Olean, N.Y.	Ian 23 1953						Unfavorable	(I)				
Allegheny River to Olean, N.Yheny, Monongahela, and Ohio Rivers and	Dec. 4, 1912	Unfavorable		-		-	do	. H	*1289	62	3	
ir tributaries, reservoirs at headwaters of, heny Reservoir-Allegheny River, N.Y. and						Favorable					1	
heny River, Pa., at Freeport, Pa., flood	Mar. 29, 1939	Unfavorable	Dec.	11. 1939		Unfavorable	Unfavorable	(1)				
ntrol. heny River, Pa. and N.Y. (see also Pitts- rgh Harbor):								(,				
At and in vicinity of Olean, N.Y At Coudersport, Pa			. Apr. Sent	12, 1946 19 1957	3, 952, 700		Favorable	S.,	*245	79	2	
it Salamanca, N.Y			. Jan.	4. 1961	1, 390, 000	Favorable	Favorable	Н	*166		ĭ	
elow dam No. 4			(Apr.	15, 1930	3, 615, 000	Favorable	do	. н	356	71	2	
Indian Francis			⁻(Apr.	22, 1932	4. 906. 000			H. Com	16	72	1	.
elow Freeport hannel (9-foot) to East Brady			. Mar.	9, 18/6	765, 132			-11 -6	27		187	6
onewango Creek, Warren, Pa	lan 16 1951		. Jan.	0, 1934	2, 042, 000		Unfavorable	п. Com	21	73	2	
rench Creek (Franklin) to Olean	Jan. 10, 1331		Feb	5.1880	40,000	Unfavorable	O1114VUI4DIU	S Fx	89	46	2 188	เกิ
inzua Dam			Oct.	21, 1968	70,000	Unfavorable	Unfavorable	(1)	03	40	£ 100	,,,
wks and dams Nos 1 2 and 3			lan	21 1002	611, 865			H	371	57	1 190	2
ocks and dams Nos. 8 and 9	lan 30 1926	Favorable	∫Jan.	31, 1930	3, 000, 000	Favorable Favorabledo	•	ξu.	+721	71	3	_
selected dama	. 3011. 30, 1320	1 4 401 0010	· (Nov.	5, 1930	3, 800, 000		Favorable	<i>§</i>	741			
ocks and dams	New 11 1011	Fourable	Nov.	29, 1904	256, 521	Favorable	do	H	167	58	3 190)5
ear Pittsburgh	NOV. 11, 1911	ravorable	. Jan.	19, 1912	2, /88, 000 .	ao	ao	и	*540	62	2 - 107	ē
l City, Pa			- Mar.	5, 10/0 5 1062	209, 304	Unfavorable	Unfavorable	(1)	• • • • • • • • • •		18/	0 1
lean to Warren	Sept. 30, 1892	Unfavorable	. 066.	J, 1302		Omavorable	linfavorable	H FY	61	52	2 189	13
arentum, lock and dam near, and lock	Oct. 3, 1892	Favorable					uvolubio	H. Ex	37	52	2 189	
and dam between Tarentum and Herr Island Dam.			Dec.	9, 1895	500, 000			н	*204	52 54	1 189	6
Tarentum to Pennsylvania State line, and Franklin to Lake Erie.	}		Nov.	25, 1898	⁴ 7, 980, 115 ⁵ 3, 224, 892	Unfavorable do Favorable	}	H	*72	55	3 189	9
and Franklin to Lake Erie.	J				6 2, 499, 384	Favorable						
French Creek (Franklin)	- 		. May	20, 1832			· 	H	343	25	2	
Olean			Dec.	19, 1878	51, 425 .			H. Ex	21	45	3 187	
o Olean pper, in, and around Bradford, Pa., flood			_ mar.	17, 1838	8/7, 466 .		Farrankla	Н	343	25 81	2	
control.			. Apr.	10, 1949						91	1	
pper River and Conewango Creek, re-			Nov.	13. 1897 {	14, 797			H	110	55	2 189	98
moving dams, etc.				,, (93, 297						_ 103	,,,

Report not published.
 Plus non-Federal costs of \$900,000.
 Interim report.

⁴ Oil City to State line.
5 Monterey to Oil City.
6 Natonia to Monterey.

. PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminar	y examinations		Surveys				Where	e publish	ed		
					•	Recommen-	Congre	ssional do	cuments		And repo Chie Engir	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Allen Cove, Maine. (See Stonington Harbor.) Allens Creek, Tex. (See Brazos River and trib- utaries, Oyster Creek and Jones Creek.) Allentown, Pa. (See Lehigh River at Bethlehem, etc.)									·			
Allerton Point, Mass. (See Boston Harbor.) Alligator Creek, Fla. (See Allapatchee River, Fla.)												
Alligator Creek, N.C., and channel connecting with inland waterway.	Oct. 25, 1930	Unfavorable				_ Unfavorable	. (1)	 .		- 		
Alligator Creek, or River, S.C., to Santee River and Bulls Bay (see also Charleston Harbor,	Feb. 4, 1887	Favorable	Sept. 5, 1887	\$ 183, 240	Favorable	do					1887	•1114
etc., and Estherville-Minim Creek Canal). Alligator and Four Mile Creeks, S.C. Alligator Harbor. (See Carrabelle, Fla., to Lan- ark, etc., Gulf Intracoastal Waterway.)	Jan. 25, 1923	do	Feb. 19, 1924	51,000	do	_ Favorable	. н	*237	68	1		-
Allouez Ray Wis (See Duluth and Superior	Jan. 27, 1883 Nov. 24, 1886	Unfavorable				Hafayarahla	. S. Ex	30 58	48 50	1	1884 1887	1059 991
Harbor and Superior Lake to Mississippi									30	•	1007	331
Alloway Creek, N.J.	Nov. 29, 1888	Favorable	Dec. 10, 1889	25, 000		Unformable	_ H. Ex	60 •604	51 63	1 2	1890	910
Allyns Point, Conn. (See Thames River.) Alma, Wis., lock and dam at. (See Mississippi River between Missouri River and Minneap- olis; and Mississippi River at Alma.)	NOV. 0, 1312					_ Ontavorable	. n	*004	03	2		
Alpena Harbor, Mich., (see also Great Lakes Harbors Studies.)			Sept. 6, 1940 Dec. 9, 1940 Oct. 11, 1948	·	Unfavorable	do	(1)					

S)

Alpena Harbor, Thunder Bay River, Mich		· · · · · · · · · · · · · · · · · · ·	Dec. —, 1870	53, 496		H. Ex	60	41	3 1871 { 158- 159
	Dec. 15.1888	Favorable	Jan. 25, 1876 Apr. 17, 1889	4, 764 36, 087 Favoráble	Favorable	H	121	44	1 1876 548 1889 *2288
	Jan. 6, 1917	do	Nov. 6, 1917 Sept. 27, 1921	67, 500do	do	H. Com	*830 1	65 67	1
Alpine, Tex. (See Pecos River, Tex.)			June 13, 1932	94, 000		H. Com	*42	72	1
Alsea Bay, Bar, Harbor, and River, Oreg			. Dec. 27, 1875			S. Ex	42	44	1 1876 { *11 644
,	Sept. 23, 1878	Favorable	Dec 2 1970	Unfavorable		S. Ex	14 •34	45 46	3 1879 1810 2 1880 2336
	Nov. 26, 1890	Unfavorable	Dec. 3, 10/3	CAN OOD Unfavorable	_ Unfavorable	H. Ex	85 *1593	51 63	2 1891 3246 3
Alsea Bay, Oreg	Jan. 22, 1936	do	Dec. 20, 1914		do	<u>(;)</u>			
Alsea River and tributaries, Oreg. flood control	Dec. 12, 1946 Sept. 10, 1954	00		Hafavarabla	do	Ø			
Alsea River and tributaries, Oreg. mood control Alsea River, Oreg	. Mar. 15, 1938 . Oct. 10, 1892	ravorable	NOV. 1, 1939	2 000 Faverable	Favorable	H. Ex	53 235		2 1893 3440 3 1895 3505
Alsea River, Oreg.	Oct. 5, 1897	Unfavorable	Jan. 1,1695	3,000 Favorable	Unfavorable	H	111	53 55	2 1898 *2995
Altamaha (Lower) River and Darien Harbor, Ga. Altamaha River, Ga. (see also Oconee, etc.; Tennessee River; Hiwassee River; Darien Harbor, Ga.; Mississippi River to Atlantic Ocean and Etowah, etc., and Lower Altamaha River and Darien Harbor). Altamaha River at Macon, Ga.	. Jan. 23, 1936	00	Nov. 27, 1880	60, 000		H. Ex	19 51	46 47	3 1881 1107 2 1883 930
Tennessee River; Hiwassee River; Darien Harbor, Ga.; Mississippi River to Atlantic	Nov. 3, 1884	Unfavorable	Dec. 29, 1882	40,000 Favorable	· · · · · · · · · · · · · · · · · · ·	H. Ex	260 283	48 51	2 1885 1234
Ocean and Etowah, etc., and Lower Altamaha River and Darien Harbor).	June 23, 1909	Favorable	June 12, 1890 July 3, 1911	635, 360 Favorable	Favorable	H	*443 *560	62 79	2 1890 1372 2
Altamaha River at Macon, Ga			(3)	349, 000		H Com	10	62	3
Altamaha River system, Ga	Sept. 26, 1912	Favorable	}Mar. 23, 1934	Unfavorable	. Unfavorable	H	*68	74	ĭ
Alto Lake, Fla. (See Waldo, Fla., to Little Lake)						
Santa Fe.) Alvin, Tex. (See Gulf Intracoastal Waterway,									
waterway from.) Alviso Creek, Calif	0-4 20 1900	Unfavorable	Dec. 11,1896	47, 855do	do	H	145	54 51	2 1897 3343 2 1891 2964
Alviso Harbor and Creek, CalifAlviso Slough, Calif	Oct. 29, 1890	Uniavorable	May 15, 1942	•	do	(i) · · · · · · ·	44	52	2 1893 3236
Alviso Slough, Calif	. OCt. 22, 1892	Unitavorable	Nov. 8, 1945 4 Apr. 30, 1954	226, 000 893, 600	Pavoradie	3	*138 *131	79 83	2
Ambrose Channel, N.Y. (See New York Harbor.)			• '	• • • • • • • • • • • • • • • • • • • •				93	•,
Amelia Island, Fla. (See Beach Erosion studies.) Amelia River, Fla. (see also Fernandina Harbor)	Nov. 3, 1884	Unfavorable			_ Unfavorable	H. Ex	71	48	2 1885 1284

<sup>Report not published.
Repeal of condition requiring local cooperation recommended.
Interim report covering Ocmulgee River.
Plus cash contribution estimated at \$56,400.</sup>

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys		_		Where	e publish	ed		
						Recommen- dation of the	Congre	ssional do	cuments		Ann repor Chie Engin	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
merican River, Calif. (see also Sacramento and Feather Rivers and their tributaries; Sacramento River, debris control; Sacramento River, debris collinsville to Shasta Dam; and Sacramento San Joaquin Basin streams). mes Roservoir, Iowa. (See Skunk River, Iowa.)	Aug. 12, 1895	Unfavorable				Unfavorable					1895	3335
nite River and Bayou Manchac, La. (see also Mississippi River to the Intracoastal Water- way).	}	***************************************	Dec. 17, 1842 {	\$6,000 13,000	}			• • • • • • • • •	•			-
			Dec. 30, 1867 Feb. 27, 1880 June 27, 1882 Dec. 24, 1888	23, 760 3, 450 3,000,000	Llofavorable	Favorable do	H. Ex S. Ex	54 191	40 46 47	2 2 1	1880 1882 1889	1185 1414 1513
nite River, La., above mouth of Bayou Manchac.	Aug. 2, 1923 Apr. 26, 1929	Favorable Unfavorable	Mar. 20, 1889 May 23, 1924	5, 000	Favorable	Favorable	H H	1111 *473	63 64 68	1 1 2	1889	1528
Manchac. mite River, La. and Miss. mite River and tributaries, La mmr.nosook Canal, N.H. miccn River, Minn. (See Superior Lake to Mississippi River.)	July 8, 1929 Oct. 6, 1954	Eavorable	Apr 5 1056	2 2 000 000		do	н	480	71 84 26	2 2 1		
mnicon River, Wis´acortes Harbor, Wash	Julie 22, 1303	ravorable				Unfavorable do _ Favorable	н	*164 160	72 59	1 1		
Capsante Waterway nacortes Harbor and Capsante Waterway, Wash	Nov. 15, 1913 Dec. 15, 1930	Favorable Unfavorable	July 2, 1915	84, 000				*120 *1117	83 64	1 .		

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•	

Anacostia River, D.C. and Md			Dec. 2	12, 1872 23, 1875 18, 1882	168, 269	Favorable		S. EX	15 39	42 44	1	1875 II, 1876 1882 1889	111 353 987 993
		Favorable	Nov. Oct. 2 Dec.	7, 1888 24, 1891 1, 1898	656, 000	Favorable	Unfavorable Favorable do	H, EX	30 *87	52 55	1 3	1892 1899	1064 1443
Anacostia River, D.C	Sept. 7, 1932 Mar. 6, 1916	Unfavorable	Dec.	23, 1073			Unfavorable	. П	94 1357 37	44 64 68	1 1 1	1876 (1) (1)	356
Anacostia River Basin, D.C. and Md			Nov. Feb.	9, 1923 28, 1949			. Favorable		•202	81	Ī.		
Washington, D.C. metropolitan area. (See Potomac and Anacostia Rivers.) Anacostia and Potomac Rivers. Anaheim Bay Harbor, Calif. (See Beach Erosion							Favorable		•22	•			
studies.) Anahuac Channel, Tex	Nov. 26, 1930 July 3, 1936	Unfavorable					Unfavorable	(¹)					
Anahula River. (See Kawainui Swamp and Wailua district, Territory of Hawaii.)	Διισ 13 1940	.do					do	_ (¹)					
Andorage Channel (See New York Harbor.) Anchorage Harbor, Alaska Anclote Bay, Fla. (see also Clearwater Harbor) Anclote Harbor, Fla	Nov. 19, 1927	do					do	. (¹) . H . H. Ex	58 71 160	50 48 53	1 2	1887 1885	
Anclote River, Fla	Dec. 21, 1894	Favorabledo	. Dec.	27, 1897 17, 1913	51,500 22,000	-do	do	· (H	*200 *18	55 63	2		1361
	Dec. 11, 1926	Unfavorable Favorable	Mar. Dec.	19, 1927 6, 1938	10,000	do	Favorable Unfavorable	. H	*243	76			
County bridge to head of navigation From county bridge to the Gulf of Mexico Anclote River-Lake Butler-Safety harbor (Old	Nov 20 102	1 Favorable	{Sept	. 18, 1931	95, 000) Favorable	Unfavorable	H	1112 *229	64 72 73	1 1 2		
Anclote River-Lake Butler-Safety harbor (Old Tampa Bay), Fla., waterway. Anderson Ranch Riservoir, Idaho. (See Boise River, Idaho.) Andre Bayou, La. (see also Barataria Bay, etc.) Androscoggin River and tributaries, Maine and													
Andre Bayou, La. (see also Baratara bay, etc.) Androscoggin River and tributaries, Maine and Naw Hampshire. Androscoggin River Basin, Me. and N.H	Jan. 24, 193	Favorable	Nov.	. 30, 1944 . 12, 1968		Unfavorable_	Unfavorable do	(¹)					
					_								

¹ Report not published.
² Plus cash contribution, estimated at \$67,000, or equivalent work, by local interests, of 18.6 percent of construction cost.
³ Plus cash contribution, estimated at \$25,000, by local interests of 14.5 percent of the cost of dredging and breakwater construction.

⁴ Report of special board on reclamation and development. 5 Eliminates requirement of \$20,000 local contribution.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

[*Indicates that maps are printed with report]

Preliminary	examinations		Surveys				Wher	e publist	red .		
		٠.			Recommen-	Congres	sional do	cuments	:	repo Chie	rt of ef of
report dation		Date of report			Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
July 12, 1929 Oct. 7, 1882	Unfavorable				Unfavorable	H. S. Ex	*646 30	71 48	3	1884	473
Jan. 17, 1917	do	· · · · · · · · · · · · · · · · · · ·		•••••	Unfavorable	Н	79	65	1		
, 		_ Dec. 30, 1873		Unfavorable		H. Ex	84	43	2	1874	742
		Nov. 10, 1880 Nov. 28, 1896	\$55,000 66,000 142,000		0.25	H. Ex S. Ex H	49 40 57	45 46 54	3 3 2	1879 1881 1897	574 871 1309
Aug. 10, 1932	do	Oct. 23, 1933						73 75	2 2		
	Date of report July 12, 1929 Oct. 7, 1882 Jan. 17, 1917 Apr. 17, 1928 Aug. 10, 1932	Apr. 17, 1928 Unfavorable Aug. 10, 1932 do	Date of Recommen- report dation report July 12, 1929 Unfavorable	Date of Recommen- report dation Pate of report Project cost July 12, 1929 Unfavorable Oct. 7, 1882 do. Jan. 17, 1917 do. Dec. 30, 1873 Jan. 8, 1879 \$55, 000 Nov. 10, 1880 66, 000 Nov. 28, 1896 142, 000 Apr. 17, 1928 Unfavorable Nov. 28, 1936 24, 000 Aug. 10, 1932 do. Oct. 23, 1933 24, 000	Date of Recommen- report Project cost Recommen- report Project cost Recommen- July 12, 1929 Unfavorable Unfavorable Jan. 17, 1917 John Jan. 8, 1879 \$55,000 Nov. 10, 1880 66,000 Apr. 17, 1928 Unfavorable Aug. 10, 1932 John Aug. 21, 1937 25,000 Aug. 21, 1937 25,000 Apr. 21, 1937	Date of Recommendation of the Chief of Feport Project cost Recommendation of the Chief of Engineers	Date of Recommendation Date of report Estimated project cost Recommendation of the Chief of Engineers House or Senate	Date of Recommendation of the report Project cost Recommendation of the report Recommendation of the report Project cost Recommendation of the Engineers Recommendation of the Engineers Recommendation of the Engineers Recommendation of the House or Senate Number Senate Project cost Recommendation of the House or Senate Recommendation of the House or Senate Recommendation of the Recommenda	Date of Recommendation of the report Part Par	Date of Recommendation Pate of report Pate of Recommendation of the Chief of Engineers Pate of Senate Pate of Senate Pate of Recommendation of the Chief of Engineers Pate of Senate Pate of Senat	Date of Recommendation Page Recommendation Page Recommendation Page Recommendation Page Recommendation Page Pag

Bay.)
Annemessex River, Md., to Pocomoke Sound.
(See Broad Creek, Md.)
Annisquam River and Canal, Mass. (See Gloucester Harbor.)
Antwine, Okla. (See Braman Reservoir.)

A Felechee Bay. (See Carrabelle, Fla., to Lanark, etc.) To Mexican border. (See Franklin Canal, St. Mary Parish, La.; and Intracoastal Waterway from Mobile, Ala., to New Orleans, La., etc.)														
Apalachicola Bay, Fla	Feh	27 1922	linfavorable					- Favorable Unfavorable	***		69	1		
Gulf of Mexico, through Indian Pass, Fla											82 82	2		
Apalachicola Bay, East Pass, and Carabelle Bar,											62 65 61	3		· · · · · · · · · · · · · · · · · · ·
Fla. (see also St. George Sound). Apalachicola Bay, Fla., and approaches to Apalachicola.				Dec.	24. 1832	8, 772								·
				Mar. Feb.	28, 1872 { 5, 1879	185,000 100,000	Favorable		H. Ex	241	42 45	2	1872 1879	612 823
West Pass	Oct.	20, 1 9 15	Unfavorable		17, 1896 4, 1939	350.000	Unfavorable	Unfavorabledo 3 Favorable	н	129 *860 *442	54 64 76	1	1897	1655
Apalachicola Bay to Withlacoochee River, Fla., Intracoastal Waterway (see also Carrabelle, Crooked, Ochlockonee Rivers and Ochlock- onee Bay, Fla.)	Apr.	27, 1936	Favorable	June	1, 1937	480, 000	do	do	н	*291	75	1	 -	
Apalachicola, Chattahoochee, and Flint Rivers, Ga. and Fla.								do		*342	76	i	·	
Apalachicola River, Fla. (see also remarks under Chattahoochee River and New Orleans, La., to Columbus, Ga.; Florida River, Liberty County,	Uct.	4. 1915				80, 333 46, 400 3, 000			H. Ex H	241 *1725	42 64	-	1873	
Fla., etc.; and inland waterway from New Orleans, etc.) Bristol and Blountstown, Fla. Apalachicola River to East Pass, Fla. Apalachicola River to St. Andrews and St.				Dec. 1	12, 1 967 _									
Josephs Bays, Fla.		,		Juii.	17, 1555	01,000	I GVUI BUIC	. ravolanie	п	- 25/	63 76	2	·	
Apalachicola River, to St. Andrews Bay, Fla. (see also St. Andrews Bay).				Dec	5 1022	614, 700 _ 450, 000 _ 240, 000	do	Favorable	H	670	61	2 .		
Apishapa River, Colo., flood control (see also Pugatoire and Apishapa Rivers, Colo., flood control).	Dec. 2	21, 1938	Unfavorable		J, 1332	340,000		Unfavorable	(I)	*52 	72	2 .		

¹ Report not published. ² Map(s); no report.

^{*}Abandonment of project for West Pass and Link Channel recommended,

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
	- rommary					Recommen-	Congre	essional doc	cuments		Ann repor Chie Engin	rt of et of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Apopka Lake, Fla. (see Oklawaha River, Fla., to Kissi,nmee River).			r . 0 1040			Unfavorable	(I)					
Kissi nmee River). Apple River, Jo Davies County, III., flood control	Na. 20 1952	Unfavorable	_ Feb. 8, 1946									
Appointation River, Va. (see also Petersburg	NOV. 26, 1832	Oiliavorable	Sept. 30, 1870	\$367, 600			H. Ex	_ 60	41	3		-
Harbor).			July 10, 1889	311, 523	}		H. Ex	113	52	2	1889	*955
				387, 926	,	Unfavorable	H Fx	113	52	2	1893	1345
	Oct. 8, 1892	Favorable	Nov 23 1900	236 915	Egyptable		н	139	56	2	1 9 01	
	Aug. 22, 1900 Sont 25, 1907	do	Feb 5 1908	22 000	do	Favorable	н	*952	60	1		
· ·			lan 11. 1939	110, 000	do	do Unfavorable	H	*223	76	1		
At Hopewell, Va			Aug. 25, 1958 _	000 700		Unfavorable	, ()					
Up to Petersburg	Dec. 26, 1922	Favorable	May 6, 1925	287,000	ravolable	Favorable	{H	_ 215	69	1		
Vicinity of Petersburg	_ 0001 20, 104-		May 16 1942			Untayorable	(1)					
				2 180 000		Favorable	H	*143	86	1	1893	869
Apponaug Harbor, R.I. Apponaug Harbor, R.I.	June 10, 1893	Unfavorable	-			Unfavorable			46	3	1881	826
Appoquiniink River, Del			Jan. 1, 1881	41, 094	Cougrable	Favorable	П. EX Н Ех		51	ĭ	1890	
	Uct. 18, 1888	Favorable		33' 303	do	do	Н	*149	63	1		
	May 17, 1911	do	Mar. 30, 1912	42, 800						_		
Aquatic Plant Control, expanded project for			June 2, 1965			Favorable	H	*251 *35	89 42	1	1872	707
Aquia Creek, Va			Jan, 22, 10/2	18,000		Favorable	S. Ex		51	í	1890	
				10 150	Favorable	Hafavorable	н	964	60	î		
	Sept. 25, 1907	do	Lune 16 1911	21 400	Ewarahla	Favorable	н	73/9	62	2		-
	Feb 8 1917	do	Feb. 23, 1917	2, 700	do	Unfavorable	Н	*181	65	1		
Aquilla Reservoir, Aquilla Creek, Tex. (See Brazos River and tributaries.) Aranjas Bay. (See Litte Bay, Tex., harbor at	•								•	,		
Fulton.) Aransas Pass and Bay, Tex. (see also Corpus Christi and Matagorda Bay to Aransas Bay	Dec. 6, 1906	do	Dec. 22, 1906	438, 699	do		H. Com H. Com	43 5	61 59			

Waterways and Rio Grande to Mississippi River Waterway and Port Aransas and St. George Sound, ect., and Louisiana and Texas	Sept. 24, 1910	do	Nov.	22, 1 9 10	375, 000	do	Favorable	Н	1094	61	3	.	
Intracoastal Waterway). Half Moon Reef	Mar. 24, 1891	Unfavorable		· · · · · · · · · · · · · · · · · · ·			Unfavorable				18	91	1943
Tex., and Corpus Christi Harbor, Tex., and Galveston Bay to Corpus Christi,	June 16, 1909	Favorable	Jan.	3, 1910 }	123, 750 541, 850 207, 900	Favorable }do		Н	*338 678	59 61	2		
Tex.).	Jan. 16, 1931	Favorable 4 5	Aug. June	6, 1929 17, 1935	515, 000 279, 000	Favorable	Favorabledo	H. Com H. Com	15 *9 *130 *63	63 71 72 74	2 1 1	 	-
To Cuero. To Pass Cavallo. (See Rio Grande to Mississippi River Waterway and St. George Sound, etc.)				, (,	Favorabledo	Unfavorable)	Н	*336	59	2		-
To Rockport and Corpus Christi and Corpus Christi Channel.	Oct. 3, 1910	Unfavorabledo				Favorable	Unfavorable	H. Com	54	61	2 3 18	71	526 *928
Aransas Pass and Harbor, Tex. (see also Port	Apr 19 1952		Aug.	9, 1879 { 22, 1887	432, 980 759, 185 1, 658, 500	}	Favorable				188	80 +: 88	1245 1312
Aransas).				17, 1898 { 31, 1909 {	1, 525, 000 215, 000 2, 028, 125	Favorable	Favorable	н	*119	55	3 189	99	
And coast of Texas in vicinity of Port Aransas, Rockport, and Corpus Christi.		Unfavorable	Dec.		1,637,000	Unfavorable	Unfavorable	H	*321 *13	67	2		
Aransas Pass to Corpus Christi, Tex., channel (see also Rockport Harbor and channel, Tex.).			Feb. Apr.	· (7 20, 000 1, 052, 000 37 000	Favorable do 8	Favorable	H	*574 *643 *487	75	3		
Aransas Pass, Tex. (See Port Aransas-Corpus Christi Waterway, Tex., and Gulf Intracoastal Waterway, vicinity Aransas Pass.) To the Intracoastal Waterway, channel from.				.,		do				77	1		

Report not published.
 Plus cash contribution, estimated at \$120,000, by local interests of 40 percent of the cost of ** Trus Leaf to Construction, Construction.

3 Non-Federal interests to participate to the extent of 30 per centum of cost of operations.

4 Eliminates local cooperation.

Maintenance for 1st year.
 Maintenance for each of next 3 years.
 Annual maintenance thereafter.
 Improvement to afford connection between Aransas Pass and Intracoastal Waterway.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congres	sional do	cuments		Anni repor Chiel Engin	t of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Arcadia Harbor, Mich	Aug. 22, 1899 July 28, 1909 Jan. 24, 1910 Jan. 6, 1911 Nov. 5, 1915	Unfavorabledod	Oct. 29, 1902	\$15,000	Favorable	Unfavorable Favorable Unfavorable Unfavorable (2)	H H H. H. Com H.	132 194 321 10 701 668	56 58 61 61 62 64	2 2 2	1900 1904	
Arcadia Reservoir, Okla. (See Deep Fork River, Okla.) Arcata, Calif. (See Humboldt Harbor and Bay.) Archers Creek, S.C.	. Sept. 6, 1910	Favorable	_ Jan. 28, 1911 Jan. 14, 1913	50, 000	Favorable	_ Favorable	. H	*513 13	62 62 46	3	1880	-
Archers Hope River, VaArecibo Harbor, P.R	Oct. 29, 1910 May 12, 1926	Favorable (2) Unfavorable do Favorable	_ Oct. 21, 1911	72, 038 	Unfavorable	_ Unfavorable (2) Unfavorable Favorable	- H - H - H - H	467 406 *214	62 69 61 73	1 2 2		
Arkansas River and tributaries. (See also Cadron Creek, Ark.; Clear Creek at Pierce City, Mo.; Galla Creek, Ark.; Grand (Neosho) River and tributaries; Hickory Creek, Mo.; Missis-	Mar. 24, 1915 Apr. 30, 1929	Favorable	(Jjne 14, 1932	766 000	Unfavorable do Favorable	-) Favorable	H Com	*308 *43	64 74 75 83	1		-
Tex., and Okla.; Polecat Creek, Okla.; Ten- killer Ferry, Okla.; and White and Arkansas Rivers and tributaries, Grand Prairie region, Arkansas)	Dec. 4, 1939	Favorable	Sept. 19, 1938 (Sept. 20, 1945) (Mar. 19, 19464) Jan. 15, 19445	435, 000, 000		do Unfavorable Favorabledo	. н	*758	79 78 49	2	1885	
Bell Ferry to Robroy railway bridge Between Little Rock and Ozark	May 27, 1909		Mar. 11, 1885 July 31, 1909 {	349, 000		Favorable	{u	*510	61			

14

Between Little Rock and Pine Bluff, Ark.; Fourche Bayou, Ark., between Little Rock and North Little Rock, flood control.							·		Favorable			76	9
Bradens Bend, Okla	Anr	28 1915	Unfavorable						Unfavorable	ш	*683	64	1
Carthage and Monett, Mo.		20, 1010	Omarolabic	Mar	24	1947	7 542 000		Favorable	n	*445	ÕÕ.	1
Conway County, Ark., Drainage and Levee District No. 1. Conway County, Ark., Drainage and Levee District No. 2				lan	5	1951	1 166 600		do do	П	*167	92	1
District No. 1.		••		Nov	18	1957	- 100, 000	· · · · · · · · · · · · · · · · · · ·	Unfavorable	(1)	10/	04	•
Conway County, Ark., Drainage and Levee				Aug.	7	1939		Unfavorable	do do	X			••••••
District No. 2.			•••••••		•	, 1000	·	011101010101111		(7			
Conway County Levee Districts Nos. 1, 2,				Aug	11	1943	662 000		Favorable	н	*3/1	72	1
O. aliu O.													
Conway County Drainage and Levee Dis-				Apr.	22.	. 1958			Unfavorable	(I)			
							·		•	(/			
Crawford County Levee District, Ark,				Dec.	17.	. 1938	284, 000	Favorable	Favorable	н	*720	76	3
NOOG CONTIOL											, 20		•
Dardanelle, Ark				Oct.	26	. 1897		Unfavorable		H	106	55	2 1898 1676
Below	June	26, 1913	Unfavorable						Unfavorable	H	*202	63	1
Dodge City, Kans., and vicinity	-			June	19.	. 1962	¥ 2, 157, 000		Favorable	н	*498	87	2
Douglas	. Apr.	2, 1909	Unfavorable						Unfavorable	н	69	61	Ī
Fort Gibson to Little Rock				Apr.	Z,	, 18/0	1/6, 400			H	295	41	2
							1, 307, 935	Favorable		H. Ex.	234	50	1 1888 1386
Fort Smith, Ark				Aug.	15,	1877	10. COO	do			-		
ADOVE				Fob	5	1970	100 000	da		U Fu	94	45	3 1897 1085
IO IUISA	lune	ia iana	lintavorable						Unfavorable	H	206	61	2
							15, 000	ravorable		M. FX	151	48	1 1884 1395
roll Smith, van Bulen, and Little Rock				Mar	10	1907		Unfavorable		H	24	55	1 1897 1989
derinen a pottom prainage District No. 3				lune	17	10/6	1, 485, 000		Favorable	H	•221	80	1
Yell County, Ark. Great Bend, Kans. Hannaherry Lake area, Ark													
Great Bend, Kans				Sept.	30,	1964	10 4, 030, 000	Favorable	Favorable	H	*182	89	1
						. 1937			Unfavorable	(1).			
nona (nony) benu co:(om. Ark				Anr	72	1050	252 000		Favorable	ü	#157	82	1
nutchinson, Kans., to mouth of Walnut				Jan.	28,	1932 _		Unfavorable		H	*308	74	1
Hutchinson, Kans., to mouth of Walnut Hutchinson, Kans., vicinity of	. Nov.	16, 1956							Unfavorable	(1)			
John Martin Dam, Colo., above				Sept.	13.	. 1972	40, 408, 000	Favorable	Favorable	Н	*143	93	1
Kaw Reservoir				luly	6	1062	83 230 000		Favorable		*143	87	2
Keystone Reservoir, Yale Water Supply				lune	20,	1966	03, 230, 000	Unfavorable	Informable	3	143	,8 <i>1</i>	4
Las Animas, Colo., and vicinity				luly	10,	1064	11 1 541 000	Favorable	Unfavorable Favorable	(:)	*166****	89	1
Little Bock Brk -													
At and below	Intv	31 1925	linfavorable						Unfavorable	/IX			
At and below Near To Mississippi River via Grand Prairie	Aug	26 1913	do do		• • •				do do	٢,	*****	-63	·
To Mississippi River via Grand Prairie	May	8 1957							uv	n	-0/3	03	4
To mouth of Grand River	Jan	25 1921	Unfavorable					· · · · · · · · · · · · · · · · · · ·	uv	X	•••••		•
To mouth of Grand River Mannford Reservoir (Keystone site)		L-, 13L1	O11141014D16	May	13	1040	37 273 000		Favorable	(2)	*107	-01	· i · · · · · · · · · · · · · · · · · ·
		• • • • • • • • • • • • • • • • • • • •		way	13,	1343	37, 273, 000		ravolaule	J	-107	01	1
1 Report not published.							6 Includes	\$4 171 800 for mo	diffication of work	aravianely anth	orized		

Report not published.
 Abandonment of project recommended.
 Favorable for snagging operations only, mouth to mouth of Neosho; annually.
 Navigation route from Little Rock, Ark., to the Mississippi River (supplemental Chief of Engineers report).
Interim report.

Includes \$4,171,800 for modification of work previously authorized.
\$132,000 at Carthage and \$410,000 at Monett.
Plus cash contribution by local interests of \$7,400 or construct proposed drainage ditch.
Plus non-Federal cost of \$223,000.
Plus non-Federal cost of \$1,810,000.
Plus non-Federal cost of \$1,84,000.

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	e publish	ed		
						Recommen-	Congre	essional do	cuments		repo Chie	nual ort of ef of neers
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Arkansas River—Continued						•						
Mouth to Fort S nith			Cant 20 1067									
Mouth to Little Rock			Sept. 20, 1867 July 1, 1885	60 500 544								
	Sept. 14, 1915	Favorable	Apr. 24, 1920		Unfavorable	Unfavorable Favorable	- (1)					
Mouth to source				25, 263, 400		Favorable	-, H	*150	56	_	1901	
Muskogee, to				800, 000	Favorable	ravolable	<u>-</u> }H	71	61			
North Little Rock, Ark			Mar. 1, 1955 Jan. 17, 1968	125, 200, 000	Favorable	Unfavorable Favorable	- (¹) S	*111	90	2		
9, Ark. Palarm Creek, Ark., vicinity of			May 10 1052			Unfavorable	(1)					
Pine Bluff, Ark.			Jan. 23, 1880	100, 000	Favorable		_ S.Ex	67	46	2	1880	1468
			Mar. 7, 1884	55, 500	do		_ H.Ex	151	48	1	1884	1395
			Feb. 8, 1897 May 27, 1907	25 000	Unfavorable		- H	294 71	54 61	2	1897	1990
Caving banks in vicinity of Hensley Bar and the McFadden place, Ark.		Favorable		911, 000		Favorable	H	*489	81	2		
Pueblo, Colo, flood protection			Aug. 1, 1949 2	209, 000		do	. н	*327 *480	81	1		
Salt Fork at Cherokee, Okla. Seguoyah and Haskell Counties, Okla.,			Mar. 18, 1939	800, 000	Favorable	do	. <u>Н</u>	*480	76	2		
Sequoyah and Haskell Counties, Okla., flood control.			Sept. 19, 1938			_ Unfavorable	- (1)					
Star Lake, Okla., vicinity of	Apr. 23, 1923	Unfavorable				do	. (1)					
Star Lake, Okla., vicinity of Tamaha, southeastward to the mouth, and			_ June 4, 1962			do	٠ (١)					
San Bois Creek, Okla. Tulsa, Okla., I vees at	Dag 22 1027	Favorable	1uly 22 1040	512 000	Favorable	Favorable	и	*157	77	1		
Wichita to Fort Gibson	Dec. 22, 1937	ravolable	Jan. 23, 1836	1 696 900	dο		H.Ex	90	49	i	1886	1391
Wichita to White River Cutoff			Mar. 16, 1888	16, 360, 000			- <u>H</u>	234	50	1	1888	1389
Wybark and Choska, Okla			Sept. 10, 1965	200 000	Unfavorable	_ Unfavorable Favorable	- (1)	*105	87			
Arkansas-Red River Basins, water quality study. Water Quality Control, pt. 1 of a 2 part			Apr. 18, 1966	46, 400, 000	Favo rable_	Favorable	. Š	*110	89	2		
report.				,,							,	•

Arkansas and Walnut Rivers, Arkansas City, Kans.		June 10, 1957	Unfavorable	(1)		
Arkansas River watershed, New Mexico, Conchas	Sept. 26, 1955		dodo	(1)		
Dam project. Arlington Experimental Farm. (See Potomac River and tributaries, Maryland, Virginia, West Virginia, and Pennsylvania.) Arlington, Oreg., Columbia River at. (See Columbia River at Arlington, Oreg.) Aroostook River, Maine			vorable	H. Ex 84	43	<u>1</u> 1874 II,327
Arrow Rock, Mo. (See Missouri River.) Arrowrock Dam, Idaho. (See Boise River, Idaho.)		June 30, 1880 50, 000		H. Ex 84	43	1
Arroyo Colorado, Tex. (see also Corpus Christi to Point Isabel and Harlingen, Tex., to the Gulf; and Louisiana-Texas Intracoastal Water- way, Corpus Christi to the Rio Grande).	, ,	Favorable			•	2
To Harlingen	May 6, 1914 Apr. 18, 1916	do	do	H	64 64	2
Calif. Arroyo Seco, Calif. (See Salinas River, Calif.) Arshamomaque Creek, Long Island, N.Y. (See Hashamomuck (Arshamomaque) Creek, Long Island, N.Y.)		·	·	(/	· · · · · · · · · · · · · · · · · · ·	
Arthur Kill, N.Y. and N.J. (see also Staten Island, New Jersey Channel, with New York Harbor.	July 18, 1907	Unfavorabledo	do	H 533	60	2 1893 1083
house, to connect mouth of; Kill von Kull; New York and New Jersey channels; and Raritan River to Arthur Kill).	Aug. 9, 1946	do Favorable Feb. 28,1949 11,561,000	Favorable	H*233	81	1
And Piles Creek, N.Y. and N.J. Arthur Lake. (See Mermentau River) Artificial Beach. (See Beach Erosion study at Orchard	·	do				1
Ash Creek, Conn.	Mar. 2, 1936	Unfavorable 1 200	Unfavorable	(¹)		1072 722
To Coosaw River, S.C. (Fenwicks Cut)	Nov. 17, 1888 Dec. 6, 1930	Unfavorable	unfavorable Favorable	H. Ex 117 H *129	50 72	1 1889 1216 1
¹ Report not published.		² Interim repor				

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	e publisł	red		
Locality						Recommen-	Congre	essional do	cuments	1	repo Chi	nual ort of ief of ineers
	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Ashland Harbor, Wis. (see also Great Lakes	Nov. 30, 1876	Unfavorable										
Harbors studies).	Dec. 13, 1879 Oct. 21, 1884	Favorable.	Jan. 1, 1885 Nov. 27, 1885	\$136,000 142,377	Favorable		. S . H	32 89	46 48	2 2	1880 1885	1929 *2010
	June 2, 1909	do	,	46, 224	Favorable	Favorable Unfavorable		*536	61	2	1886	*1674
	Jan. 28, 1916		Mar. 25. 1930	10,000	Favorable			*1698 *133	64 71	2		
	Apr. 6, 1931	Favorable		208, 000 24, 000	do	do	H. Com	*46 *337	72 77	i		·
Ashley River, S.C	Sept. 10, 1900	Favorable		9, 800 264, 396	do		Н .	115	56	<u>-</u>	1873 1901	756 1619
	June 28, 1915) do	Feb. 12, 1912 July 31, 1916		do	Favorable			62 64	2		
	Jan. 3, 1918	}do Unfavorable			uo	Unfavorable			65	2		
A L. T. (O. Minimizai Bina)	Apr. 29, 1935 Nov. 12, 1935	}do	Jan. 10, 1936	340, 000	Favorable	Favorable	. н	*449	74	2		
			July 14, 1826	12, 000								-
Harbors studies).			Sept. 30, 1857 Aug. 25, 1866 Feb. 28, 1895	57. 377					35		1867	140
	May 19, 1906 Apr. 15, 1909	Unfavorable Favorable	Jan. 20, 1910		Favorable	Unfavorable	. H	86	59 61	2	. 1895	*3122
	Sept. 30, 1912 May 28, 1915	Unfavorable Favorable	Feb. 11, 1916		Favorable	Unfavorable		*1295 *997	62 64	3		
	May 12, 1931	Favorable	July 22, 1932 Nov. 18, 1935	925, 000 528, 000	do	do	H. Com	*43 *78	73 74	1 2		
	••		Feb. 21, 1941 June 29, 1954	38, 000	Favorable	Favorable	. H	*321	77 83	ĺ		

18

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<u>`</u>	
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Assateague Anchorage, Va., harbor of refuge	. Dec. 1	4, 1923	Favorable	∫Jan. i Mav	17, 1925) 15, 1927)							
Assateague Channel, Accomac County, and Chincoteague Island, Va. (see also Smallers Drain, Assateague Island, Va.). Assateague Creek and Smallers Drain, Va. (See Smallers Drain, Assateague Island, Va.)	June 1:	3, 1938	Unfavorable					do	. (1)			-
Assawaman Bay, Del. (See Chincoteague Bay, Delaware Bay Waterway.) Assonet River, Mass. Astoria Harbor, Oreg. (see also Columbia River below Tongue Point).	. Aug. 1 Apr.	0, 1899 4, 1905	do Favorable	Oct.	6, 1906		Unfavorable	do	. H	102 216	56 59	1 1900 1300 2
Astoria Harbor (Lower), Oreg. (See Lewis and Clark River.) Astoria, Oreg. (See Columbia and lower Willamette Rivers between Portland, Oreg., and												
the sea.) Atchafalaya Basin Access Channels, La Atchafalaya Bay. (See Atchafalaya River, La.,				Dec	. 3, 19692		_ Unfavorable	Unfavorable	_ (1)			
etc.) Atchafalaya Bay and River, La. (see also Charenton Canal. and Grand Lake, and Plaquemine	1			July	24, 1871 {	104, 80 0 122, 300	Fauorable					1871 554
and Teche Bayous, and Mississippi River, and Red and Atchafalaya Rivers).	Apr. 1	0, 1897	Unfavorable			1, 939, 399	Unfavorable		. H . H . H. Com	27 410 17	55 56 61	1 1897 1779 1 1900 2282 2
Above Berwick Bay - Berwick Bay to mouth of Red River Berwick Bay to Gulf of Mexico	Nov. 2	0, 1900 0, 1884	Favorable	Mar. Apr.	18, 1885 26, 1882	92, 604	Unfavorable	Unfavorable	S. Ex	172 30	47 48	1 1885 1432 1 1882 1393 1 1884 1285
Mouth of Red River to Brashear				Nov	. 16, 1888 }	10, 000, 000	Unfavorable	do	•	· • • •		1889 1510 1874 771
	Nov.	5, 190 9	Favorable	Jan.	22, 1910 {			Favorable			61 66	1
Atchafalaya River, La	 -		·	July	17, 1919 {	5, 131, 750 3, 751, 200	Unfavorable	_ Untavorable	. П	*1220	65	
Atchafalaya River, La And Bayous Courtableau, Teche, and Ver- milion, navigable connection between												
streams. And the Atchafalaya Bay ship channel Bayous Chene, Boeuf, and Black, La-				Mai Mai	r. 31, 1945 . 6, 1967	² 8, 645, 000	Favorable	do Favorable	. H	*155	90	1
Report not published.						3 Plus non-	Federal cost of \$8	381,000.				

² Mississippi River Commission report.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations	_	Surveys		_		Wher	e publist	ed		
						Recommen-	Congre	essional do	cuments		Ann repo Chie Engin	rt of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Atchafalaya River, La.—Continued Morgan City to Gult of Mexico (Bayous' Terrebonne, Petit C illou, Grand Caillou, DuLarge, and connecting channels).	• • • • • • • • • • • • • • • • • • • •		July 26, 1962	\$45,000		Favorable	. н	*583	87	2		
Morgan City to Mississippi River via Old			May 1, 1951	2 440,000		do	. S	*53	82	1		
River, La. Separation from waters of Mississippi River. (See Red and Atcha'alaya Rivers.) Athens, Ohio. (See Hocking River.) Atherton Creek, San Mateo County, Calif Atkins Bay, Maine. Atlantic City. (See Beach Erosion studies; Hur-	Sept. 29, 1930	Unfavorable	Apr. 18, 1966		Unfavorable	Unfavorable _ Unfavorable	(1)					
ricane studies; New Jersey coast, flood con- trol; and Pleasantville, N.J.) Atlantic City Harbor, N.J. (see also Absecon) Inlet, Beach Thoroughfare, and Cape May to great Bay).			Oct. 18, 1884 May 31, 1887	960, 000 3, 000, 000	Unfavorable		H. Ex	71	48	2	1885 1887	
Atlantic City to Fortescue Creek, N.J., waterway through Cape May, Cumberland, and Atlantic Counties.	Sept. 30, 1938	Unfavorable				Unfavorable	. (1)					
ktlantic-gulf ship canal, Florida: Cumberland Sound, Ga. and Fla. to Missis- sippi River Waterway. Florida ship canal. Georgia-Florida Waterway.	Dec. 1, 1931 Jan. 27, 1932	}Favorable	Nov. 1, 1936	263, 838, 000	Favorable	_ Favorable	Н	*194	75	1.		*
St. Marys River, Ga. and Fla	Dec. 18, 1935						S	147	74	2		

Atlantic-Gulf Waterway, Fla. (See Cross-Florida Barge Canal; and Punta Rasa-Fort Pierce Waterway.) Atlantic Highlands, N.J. Atlantic Highlands, N.Y. (See Sandy Hook Bay, off Atlantic Highlands, N.Y.) Atlantic Intracoastal Waterway: Albermarle Sound to Pungo River, N.C. Bridges, Va. and N.C.	_ Apr					. 05 1001									59			
Bridges, Va. and N.C					Nov	24 1970	11 2	20 000	Untavorable	d	J	(¹)						
Atlantic Ocean to Gulf of Mexico, canal. (See Florida, waterway across State of)	••••				Jun	e 2,1965 _			Unfavorable	Unfav	orable	(¹)		*142	92	1 _		
Atlantic tidewaters. (See Great Lakes to—.) Auburn Lake, N.Y., flood control. (See Oswego, Oneida, Seneca, and Clyde Rivers, N.Y.) Aucilla River, Fla																		
and tributaries, flood control, and control of	Oct.									Unray	orable	н		*132	72			1302
Auglaize, Blanchard, and Ottawa Rivers, Ohio, flood control.	Sept	. 5, 19	40	do			·			ď	n	(1)						
Au Gres River, Mich	Dec.	26 18	88	do														
	Oct.	9, 19	3	do						d))	_H		+517			889	2277
• · · · · · · · · · · · · · · · · · · ·	Jan.	7, 19.	11	ao	Aug	8 1962				d)	(1)					·	
Augusta Narrows, Ark. (See White River at.) Auke Bay, Alaska					nug.	0, 1302				d)	(1)					·	
Au Sable Harbor, Mich. (See Coasts of Great Lakes; Harbors of refuge for light draft									Unfavorable									
vessers.) Au Sable River, Mich					- Oct.	16, 1866	11	4, 754 _										
	_				Jan.	25, 1876	90	0.000	· · · · · · · · · · · · · · · · · · ·			·u				1	875	286
	Mav.	29 190	7	do do						Unfavo	rable		· · · · · · · · · · · · · · · · · · ·		44	I	889	2279
Ausable River N.V. flood control	July Jan.	12, 190 2, 196	9 3	do						Unfavo	rable	H. Co	m	15	61	2		
Ausable River, N.Y., flood control																 		-
Austwell Channel, Tex. Au Train Lake. (See Lake Superior to Lake	June	28, 191	6	do					· •	dc) }	H)		488 *1732	71 64	7		
Michigan Waterway)																		
Au Train River, Mich., harbor at mouth Aux Becs Scies Lake, Mich. (See Frankfort Har-	July	14, 194	7							do		(1)						-
bor.) Avoca, N.Y. (See Cohocton River at.)																		
Avon, N.C. (See Pamlico Sound to.)																		

¹ Report not published.

² Mississippi River Commission report.

2

IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Dualiminary	examinations		Surveys				Where	publish	ed		
	Preliminary	examinations				Recommen- dation of the	Congres	ssional doc	cuments		Anni repor Chie Engin	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
abylon Creek, N.Yachelors slough, Wash	Jan. 20, 1897 Nov. 22, 1913	Unfavorable	May 26, 1914	\$3 , 250	Favorable	Unfavorable dodo	. H . H	222 *1176	54 63	2 2	1897	117
ackman and loe's Creek, Dallas, 16x	10 1000	do	Mar 9 1939	6, 000	Favorable	_ Favorable	. n	. 320	76 48	1	1885	13
ack Bay of Biloxi and Bayou Bernard to Hands- boro, Miss. ack Bay of Biloxi, Miss. (see also Biloxi) And Bayou Bernard At Cranes Neck and Biloxi Mud Flats	Oct. 3, 1884 Dec. 16, 1930 May 17, 1938	Unfavorable Favorable	Feb. 23, 1939	4, 000	Favorable	Unfavorable Favorable	. (1) . (1)	*258	76	ī		
And Bayou Bernard	Nov. 12, 1918	Unfavorable	May 1,1963		Untavorable	do	. H	*258 176	66 65	1 1	1893	17
Up to Handsboro Lack Cove, Portland, Maine. (See Portland.) Lack Creek, Anne Arundel County, Md. Lack Creek, Anne Arundel County, Md.	May 10, 1893 Dec. 23, 1935	do				- Favorable			75 25	1		
Anchorage in. (See Delaware River to Ches- apeake Bay.) Back Creek to York River, Va	Mar. 26, 1917	Favorable		11 400	Hofavorable	Unfavorable	(1)		65			
	Cont 5 101	3do 2do	Aug. 28, 1934 Ian. 14, 1913	22, 500 5, 000	Favorable Unfavorable	Favorable do	H	*1391	74 62	. 3	3	
Back River, Ga. (see also Terry Creek)	June 3, 192	7do	Nov. 12, 1929	30, 000) Favorable	Favorable	3	_ 3/	,.	_	?	
Back River, Md Back River, Maine. (See Sasanoa River.)	Oct. 19, 195	6		-			\/		. :			

	Black River, Mass. (See Weymouth River.)										
	Back River to Wallace Creek public landing	Dec 0 1005	11-1			9					
	Back River to Wallace Creek public landing, Elizabeth City County, Va.	Dec. 9, 1935	Untavorable			Unfavorable	(1)				
	Pack Piver Ve (Con Hamis Court of the										
	Back River, Va. (See Harris Creek and Newport										
	News-York River Waterway.)										
	News-York River Waterway.) Back River, Front Cove, Va Back Sound, N.C. (See North River, N.C.)			Mar. 31, 1961		do	/t\				
	Back Sound, N.C. (See North River, N.C.)	_		01, 1001			(7				
	Back Sound to Lookout Bight, N.C.:										
	Channel from			Eab 16 1042	EO 400	F				_	
	Channel from Through Shackleford Banks, N.C. Bad River Mich (see also Flint and Series)	Nov 30 1035	Unfavorable	Mor. 15 1027	50,000	Favorabledodo	<u>H</u>	*746	77	2	
	Bad River, Mich. (see also Flint and Saginaw Rivers). Rad River and tributeries. S. Dak. (see also White.))	Ulliavolable	_ mar. 15,193/	50, 000 Favorable	do	H	*251	75	1	
	Rivers)	Dec. 31, 1894	Favorable	Nov. 22. 1897	5,000 } do	do	∫H. Ex	232	53	3 1895 2852	
	Bad River, Mich. (see also Flint and Saginaw Rivers). Bad River and tributaries, S. Dak. (see also White and Bad Rivers S. Dak, and Nebr.)	C4 20 1020	11 6 44		21,000 })H	135	53 55	3 1895 2852 2 1898 2600	
	and Bad Rivers S, Dak. and Nebr.).	Sept. 30, 1932	Untavorable			Unfavorable	Н	*189	73	2	
									, •		
	Bad River, S. Dak. and Nebr. (See White and										
	Dad Rivers, S. Dak, and Nebr.)										
	Bad Rivers, S. Dak, and Nebr. See White and Bad River, Wis. Bad River, Wis., Mellen and Odanah and vicin- ities.	Aug. 29, 1932	do			do	ш	*71	72	1	
	Bag River, Wis., Mellen and Odanah and vicin-			June 29, 1954	3 761 ROO	Favorable	и и	*165	73 84	1	
	ITIES.				701,000	Tavolable	n	-103	04	1	
	Baffins Bay, Tex. (See Corpus Christi to Point										
	Bagaduce River, Maine	May 12, 1926	(2)			^		400			
		Dec. 10 1935	Unfavorable			();	H	467	69	1	
	Bagaduce River, Maine Bagaduce River, Maine, from Penobscotto— Brookville South Fork	Dec - 1886	Favorable	Cab 2 1000	46 675	Untavorable	- (1)		. .		
	Brookville	Jan 27 1014	Unfavorable	reu. 2,1000	46,8/5 Pavorable_		. H,Ex	157	50	1 1888 398	
	South Fork	Aug 17 1902	Ulliavoiable			Unfavorable	_ H	*870	63	2	
	Leading up to Penoberot Village	Aug. 17, 1032		1711-1111		dodo	H,Ex	17	52	2 1893 724	
- 1	South Fork			_ Nov. 23, 1897	45, 700 Unfavorab	le	Н	*144	52 55	2 1893 724 2 1898 842	ည္သ
•	and Miami to Key West.)							*	•••	_ 1000 012	Ţ
	Baileys Cut. (See Satilla River, Ga.)										
ì	Baker(s) Pay Columbia Diver West (0										
•	Baker(s) Bay, Columbia River, Wash. (See	Dec. 22, 1930	Favorable	Aug. 19, 1932	54.000 Favorable	Favorable	н	*44	73	1	
	Columbia River to Ilwaco.)	May 28, 1936	Unfavorable		- ,	linfavorable	(1)		/3	•	
				June 17, 1939	170 000 Favorable	Unfavorable Favorable	· \\ \\	*443		;	
	N. I			Feb. 28, 1949	442 000 Tavojable	dodo	- g	*95	76 81	1	
	Bakers Bay to Shoalwater (Willapa) Bay, Wash.,				442,000		. 3	-30	91	i	
Е				May 27 1050	4 239, 000						
	pakers naulover inlet, Fla. (see also Beach										
	Bakers Haulover Inlet, Fla. (see also Beach Erosion studies.			ay 17, 1555	200,000		. п	-189	86	1	
	Badhill. Reservior. N. Dak. (See Shevenne			. may 17, 1000	200,000		. п	-189	86	1	
8	Badhill. Reservior, N. Dak. (See Sheyenne River)	•••••		y 17,1333	200,000		. П	-189	86	1	
8	Badhill. Reservior, N. Dak. (See Sheyenne River)	·			- 200,000	dv	- П	-189	86	1	
8	Badhill. Reservior, N. Dak. (See Sheyenne River) Baldwin Bay, N.Y. (See Milburn Creek. Swift	·			200,000		- n	-189	86	1	
8	Badhill. Reservior, N. Dak. (See Sheyenne River)	·			200,000		- П	-189	86	1	

Report not published.
 Abandonment tf project recommended.
 Includes \$66,000 for items of local cooperation to be furnished by Bureau of Indian Affairs.

⁴ Plus cash contribution, estimated at \$239,000, by local interests of 50 percent of the first cost of construction.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
		***************************************				Recommen-	Congress	sional doc	uments		Ann repor Chie Engin	t of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Baldwin River, N.Y.	Oot 4 1884	Unfavorable					H. Ex	71	48	2	1885	789
Ballard, Wash. (See Puget Sound-Lake Wash-	001. 4, 1004	Omavorabic										
ington Waterway.) Ballona Creek, Calif. (See Los Angeles and San												,
Cabriel Divers and Rallona Creek Calit)			E-L 04 1000	2 ¢22 NQ1								
Baltimore Harbor, Md. (see also Potomac River Patapsco River).			_ Feb. 24,1828 Jan. 5,1881	1, 250, 000	Favorable	Favorable	H. Ex	*36	46	3	*1881	860
Patapsco Kiver).			Dec. 17, 1886	620, 000 1, 240, 000	}uo		H. Ex	67	49	2	1887	880
			Sept. 19, 1894	2, 500, 000	·)		<u>H</u>	57	53	3		1201
•			Oct. 17, 1896	2, 500, 000 10, 700, 000	Favorable		H	50	54	2		1308 1394
			Jan. 26, 1901 {	5 300 000				118	56		1901	1394
And channels			_ May 3, 1928	507, 640	Favorable	Favorable	H. Com	*11	70	-1		
	Aug. 31, 1928	Favorable						*29	71	1		
			June 30, 1942	20 161 000		do	п	*741 *86	79 85	1		
Ancherage facilities opposite Prudential	Feb 23 1921	Unfavorable	Jan. 3, 1957	20, 101, 000		Unfavorable	(1)					
				876 100	Favorable	Favorable	Н	* 799	64	1		
And approaches thereto	_ July 31, 1915	Favorable	Dec. 2,1919	25, 000	do do		H. Ex	102	51	2	1891	124
Channel to Curtis Bay			Jan. 26, 1901	106 000			S	118	56	2	1901	139
			Dec. 16, 1902	3, 465, 000		Favorable	н	186	57 63	2	1903	103
	Nov. 22, 1912	Favorable	Dec. 21, 1912 (Jan. 15, 1867)							1	1867	41
Fort McHenry to mouth of Patapsco River.			IMan 22 1067									
Middle Branch, Patapsco River, from Light Street Bridge to foot of Eutaw St.	Oct. 7, 1892	Favorable				Favorable	H. EX	84	52	4	1893	120

South Branch, Patapsco River, from Craighill Channel to Light Street Bridge.	l d	in	do											
Channel to Light Street Bridge. West Branch, Patapsco River, from Light Street Bridge to head of tidewater.								do	. H. Ex	84	52	2	1893	1262
Street Bridge to head of tidewater				_ Jan.	20, 1879	207, 600	Favorable		H Ev	49	45	•	1070	
Southwest Baltimore (Spring Garden) Har- bor.											43	3	1879	579
bor.				. Mar.	. 4, 1896 {	314, 000	}	Favorable		***		_		
York Spit Channel altimore Metropolitan Area, Maryland. (See	Nov.	22 1912	Favorable	Dec	10 1012	524, 287	<u></u>		. п	304	54	1	1896	1006
altimore Metropolitan Area, Maryland. (See		,	7 0 7 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	Vec.	10, 1512	305, 250	ravorable	Favorable	H	*1190	62			-
anana Creek and River, Fla anana Creek, Fla anana River to Mosquito Lagoon, Merritt Island,	. Mar. 2	20, 1950						Unfavorable	an a					
anana River to Mosquito Lagran Managa Lat.	Dec.	12, 1917	Unfavorable					do	· (:)	1055	·	<u>-</u> -		
anana River to Mosquito Lagoon, Merritt Island, Fla., waterway.	Apr.	30, 1936	do			•		do	(h)	1033	60	2		
angor Harbor. (See Penobscot River.)									(7					
aptism and Manitou Rivers, Minn. araboo River, Wis. arataria Bay, La., and connecting waters arataria Bay, La., New Orleans to Grand Pass	Nov	28 1021	do											
araboo River, Wis	. 1101.	20, 1331	au	Doc	c 10cc			do	H	*250	72	1		
rataria Bay, La., and connecting waters	Oct. 1	8. 1915	do	Mar	1 1017	61 700	Unfavorable	Unfavorable	(1)					
arataria Bay, La., New Orleans to Grand Pass	1	,		_ mai.	1, 1917	79 496	_ravorable	Favorable	Н	*200	65	1		
(see also Little Lake)	}			_ Aug.	17, 1881 }	108 158	{						1991	1207
arataria Bay, La., and connecting waters arataria Bay, La., New Orleans to Grand Pass (See also Little Lake). arataria Bay Waterway, La	May 1	8, 1949	Favorable	Oct.	19, 1956	1, 647, 000	,	Favorable	ш	*00	AP		1001	1307
orbers Point Harbor, Oahu, Hawaii. (See Hono-				Oct.	21, 1966		Unfavorable	Unfavorable	(1)	*82	85	1.		
Iulu Harbar, Hametti Valla, Hawall, (See Hollo-									()				- • •	
r Harbor, Maine	luno	1 1026	Hafavarahia		01 1010								• '	
	June 1	6 1947	Eavorable	. May	31, 1940		do	Unfavorable	(1)					
ar Harbor, Maine	Jan. 1	0. 1887	do do	. may	9, 1937	E00 000		dodo	(1)					
		0, 100,	do	July	27, 1007	200, 000						•	1887	483
								*						
pire, Mich., etc.)														
arbourville, Ky. (See Upper Cumberland River, Ky., and Tenn.)														
Arcelona Harbor N.V. (see also Coasts of the	Dan 1	0 1005											- -	
Great Lakes, harbors of refuge for light-draft	Dec. 1	9, 1935	do	Mar.	2, 1936		Unfavorable	Unfavorable	(1)					
VG33613).									\/					
rge channel. (See Mississippi River, Baton														
Rouge to the Gulf of Mexico, barge channel														
through Devils Swamp.)														
negat Pay, N.J., inlet from Atlantic Ocean, near head of (see also Cranberry Inlet).	Apr. 30	0, 1868	Unfavorable					Unfavorable						
rnegat Ray and Creat Egg Harber Day 11	0.1 0							Ullavolable			- 		1868	708
rnegat Bay and Great Egg Harbor Bay, N.J., sound between (see also Cranberry Inlet).	UCT. 20	v, 1890 ₋	do			· · · · · · · · · · · · · · · · · · ·		do	H Fx	42	51	,	1001	1002
Retween Mantoloking and Ray Hood	0-4 21	1 1000								74	31	4	1891	1093
Between Mantoloking and Bay Head rnegat Inlet, N.J. (see also Cranberry Inlet)	Aug 13	1, 1090 - 3 1802 -	do					do	H	115	54	2	1897	1229
- , (see also oldhooliy illici).	Oct.	6. 1931	Favorable	Tube	21 1022			<u>.</u> do	H. Ex.	16		2		1185
		0, 1001	1 41014016	May	31, 193 3 22 1025	533, 000	ravorable	do_ Favorable_ do_ Unfavorable_	H. Com	19	73	2 _		
				July	2 1942	JJ3, 000 _	00	do	H. Com	*85	74	2		
				Aug.	2. 1945 3	8 4 500		Favorable	(!)					
				Sept.	24, 1948	- 4, 500		Pavorable Unfavorable	H	*358	79	1		
rnegat Inlet to Cape May Canal, N.J. (See Beach Erosion studies.)				•				Omavorable	(7			•		

Report not published.
 Annually for dredging.

³ Interim report.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	e publish	ed			
						Recommen	Congres	sional do	cuments		repor	ef of	
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber		Ses- sion	Year	Page	
Barnstable Bay and Buzzards Bay Ganal. (See Buzzards Bay and Barnstable Bay Canal, and Gape God Canal and East Dennis.) Barren Island Gaps, Md. (See Honga River and													
Taf Bay, Md.) Sarren River, Ky. (see also Green and Barren	Nov. 11, 1890	Unfavorable				. Unfavorable	. H. Ex	15	51	2	1891	2475	
Rivers, etc.). Barren River, Ky., and Tenn., flood control Barrington Harbor, R. I. (See Warren River and						_ Favorable			78	2			
Barrington Harbor, R.I.) Barroom Bay, TexLa., and Texas Intracoastal						- Favorable			76	1		-	
Barron River and Chokoloskee Bay, Fla Bartholomew Bayou, La. and Ark			Dec 20, 1880	26, 862		Unfavorable	- H. EX	147	42 45 46 48 64	2 3 3 2	1872 1879 1881 1885	383 997 1453 1549	
Basin Bayou and Choctawatchee Bay, Fla.,	May 25, 1916 May 12, 1926 Mar. 23, 1956	(2)	,			. (2) Unfavorable	. Н . (¹)	467	69	í			
- waterway connecting. Rass Harbor Bar, Maine (see also Deer Island	Aug. 28, 1911	Favorable	Sept. 13, 1912	10, 000	Favorable	_ Faborable	. H	*1128	62	-			
thoroughfare). Bass Harbor, Maine Bass River Harbor, Mass	Aug. 18, 1899	Unfavorable	Nov. 27, 1962 Feb. —, 1830	19, 930	. Unfavorable	Unfavorable	. (¹) Н	142 467	56 69	1 1	1900	1282	
	July 13, 1938	Favorable	Sept. 25, 1941 June 7, 1974		. Unfavorable	Unfavorable Unfavorable	. (1)			<u>-</u>			

Bass River, Mass	May	31, 1895	Unfavorable									1895	739	
Bastrop Bayou, Tex. (see also Chocolate Bayou,	Julý	24, 1899	Favorable	Jan.	24, 1900	20, 000	Unfavorable	Unfavorable	H	445	56	1 1900		
Bastrop Bayou, Tex. (see also Chocolate Bayou, Bastrop Bayou, and Oyster Creek, Tex.; and Chocolate and Bastrop Bayous, Tex.).				Apr.	28, 1939	30, 300	Favorable	Favorable	H	*337	76	1		
Bastrop-Fayette Soil Conservation District, Tex.	Feb	26 1957						H-faurable	40					
Batavia. (See Tonawanda Creek, N.Y.)	. 65.	20, 1337						Untavorable	(1)					
Batesville, Ark. (See White River.)														
Baton Rouge, La. (See Mississippi River.)														
Batten Kill, N.Y	June	9, 1938	Unfavorable					do	(1)			 .		
Batten Kill, N.Y. and Vt. Battery and Governors Islands, N.Y., channel	Jan.	4, 1930	ao	Fah.	24 1007	2 210 000	Pananakia	do	H	*685	71	3 2 1897		
between, to make channel continuous with				rev.	24, 1897	2, 210, 000	ravorable		н	334	54	2 1897	1182	
Buttermilk Channel 30 feet deep and 1,200														
feet wide. (See also East River.)														
Battery Reef, East River, N.Y. (See East River.) Battle Creek. (See Elkhorn River and tributaries.														
Nebraska: and Sacramento San Joaquin Basin														
streams, California.)														
Baudette Harbor and River, Minn	Nov.	20, 1912	Favorable	Mav	20. 1913	2.750	do	Favorable	н	*109	63	1		
Baudette Harbor, Minn	Dec.	19, 1930	Unfavorable	Nov.	11, 1931	10, 950	Unfavorable Favorable	Unfavorable	(1)	103	03	1		
Bautiste (Bautista) Creek. (See Santa Ana River				Oct.	20, 1938	15, 000	Favorable	Favorable	H	*216	76	1		
and televitarian California								•						
Bayamon and Hondo Rivers and tributaries.	Apr.	25 1947	do					Hufavorable	an a					
		2-, 1					*******	Ulliavulable	(1)					
Bayboro. (See St. Petersburg Harbor, Fla.)	_													
Bay Center Channel, Willapa Harbor, Wash., from Palix River to Bay Center dock.	Dec.	1, 1938	Favorable	June	23, 1939	30, 000	Favorable	Favorable	H	*481	76	2		27
Bay City. (See Grays Harbor, Wash.)														~
Bay City section, (See Saginaw River, Mich.)														
Bay Creek Basin, III				Mav	16 1973		linfavorable	Unfavorable	(1)					
bay Greek, in. (See mcGraney, madey, and hise)					,			Omavorable	• (-)					
Creeks, III.)														
Creeks, III.) Bayfield Harbor, Wis	NOV.	30, 18/6	Unitavorable	- -										
	Dec.	6 1930	do				**	Unfavorable	S. EX	32	46	2 1880	1929	
	Dec.	16, 1940	do			· · · · · · · · · · · · · · · · · · ·	•	do do	X			-		
	Feb.	19, 1947	Favorable	Feb.	3, 1949	119,000		Favorable	H	*260	81	1		
Bay John, Ala. (See John, Bay, Ala., to the gulf.)						·								
1 Report not published.						² Abandonme	nt of project recom	mended.						

² Abandonment of project recommended.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		S	Surveys				Where	e publish	ed		
							Recommen-	Congre	ssional do	cuments		repo Chi	nual ort of ef of neers
Locality	Date of report	Recommen- dation	Date of report		Estimated roject cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Pag
day Mabel, Fla. (See Caloosahatchee River and Lake Okeechobee drainage areas and Port Everglades to Caloosahatchee River.) lay Ocean Peninsula. (See Tillamook Bay and bar, Oreg.)													
ayou Bartholomew and tributaries, Ark. and La. ayou Bodcau Reservoir, Bayou Bodcau, and Red Chute, Loggy, Black, and Cypress Bayous,			June 2, 1 Jan. 28, 1	1965 \$ 1964 ²	9, 360, 000 1, 524, 000	Favorable Favorable	Favorable _ Favorable	. Н Н	*506 *203	89 89			
Ark. and La. layou Coden, Ala			Mar. 6.1	1942 1970	6, 880	Unfavorable	Favorable Unfavorable	. H	*824	77	2		
ayou DeView. (See Cache River, Ark. and Mo.) ayou Grand Caillou, to Gulf of Mexico, La													
ayou LaBatre, Ala ayou La Fourche, La And Lafourche-Jump Waterway ayou Macon, La. (See Boeuf and Tenas Rivers			Aug. 1, 1	1964 1945 1959	262, 000 5, 550, 000 4, 664, 000	Favorable	Favorable do do	. Н. . S . Н.	*327 *191 *112	88 79 86	2		-
and * * *.)' ayou Meto, Ark. (see also White and Arkansas			Aug. 4, 1	1945			Unfavorable	. (1)					
Rivers, Grand Prairie region.) ayous Petit Anse, Tigre, and Carlin, La ayou Pierre in vicinity of Shreveport, La., flood control.	Oct. 15, 1943	Favorable	Mar. 25, 1 June 7, 1	1958 1945	106, 000 190, 000		Favorable do	S	*70 *285	85 79	2 1		
ayou Pierre Lake, La. (See Tones Bayou.) ayou Sara Harbor, La. ayou Scoffeld. (See Empire, La., to Gulf of Mexico Waterway.)	Sept. 21, 1894	Unfavorable					Unfavorable	. H. Ex	63	53	3	1895	. 17
mexico Waterway, La ayous Terrebonne, Petit Caillou, Grand Caillou, DuLarge and connecting channels and Atchafalaya River, Morgan City to Gulf of		Favorable	Jan. 21, 1 July 26, 1	1954 1962	520, 000 45, 000		Favorable do	. н Н	*413 *583	8 3 8 7	2		
Mexico. ayport Channel and Harbor, Fla			Feb. 23.1	1973		Unfavorable	Unfavorable	(1)					

Bay Ridge Channel, New York Harbor, Break- water, Bay Ridge Channel, New York Harbor, Break- Feb. 17, 1923 Unfavorable Feb. 14, 1924 594,000 Unfavorable Unfavorable (1)————————————————————————————————————	
thad and for 23 feet depth. 60 51 2 1891	940
Bay Ridge Channel, New York Harbor, triangle 2,000,000 2,000,000 4 2 1897 5,300,000 3 4 2 1897	1177
(see also buttermit Channel and Gowanus May 22, 1909 do H 205 61 2	
bay). Uct. 14, 1913 Favorable Dec. 15, 1913 20, 000 Favorable Favorable H. *863 63 2	_
Bay Ridge and Red Hook Channels, N.Y. Bay	
Ridge Channel. Bay River, N.C. (see also Pamlico River; Van- Jan. 27,1883 Unfavorable	1064
Northwest Prong Feb. 27, 1913do Oct. 10, 1913 9, 337do Unfavorable H •810632	
Bay River to Neuse River, N.C., Inland Waterway. Aug. 7, 1935 9,000 H. Com *72 74 2 The company of the company	
(See Norfelly Deauf yet inland waterway)	
Say Shore Harbor, N.Y.	
Bay Shore, Long Island, N.Y	1442
Bays, inlets, and rivers along the coast of Oregon. June 2, 1950 Bay the Ark / tributary of St. Francis River) Lan 10, 1881 Unitary of St. Francis River) Lan 10, 1881 Unitary of St. Francis River)	
Beach Creek, Va. Feb. 21, 1917 do. Infavorable H + 230 65 1 1881	1497
Sersey Channels.) Bays, inlets, and rivers along the coast of Oregon June 2, 1950	
Lancaster County, Va. Feb. 18 1964 Unfavorable da (1)	
boddi biodom (bod da) mass.	
Beach Erosion studies: Amelia Island, Fla	
Annia maria and Longuoat Reys, Fra	
Attantic Coast of Long Island, Fire Island Inlet,	
and shore we terry to Jones Injet, N.Y.	
Barnegat Inlet to Cape May Canal, N.J. May 27, 1959 14, 464, 000 Favorable U +209 96	
Bette Pass to Raccon Point, La	
Blind Pass Fla Mar 22 1927 Havorable H 336 85 2	
BOILVAR PENINSULA IN VICINITY OF KOLLOVER FISH	
FaSS, 103.	
Dievalu County, Fla., Sholes of	
Broward County and Indissorts inter, ria	
Camp Pendieron and Oceanside, Calif	

Report not published.
 Plus non-Federal cost of \$907,000, including \$207,000 for associated land drainage.
 Federal cost includes Federal share of beach nourishment for 10-year period.

Federal cost is net cost to the United States and includes Federal share of beach nourishment over the 50-year life of the recommended project.
 Plus non-Federal cost of \$683,000.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

	Prelimir	nary examinations		Surveys				Wher	e publish	red		
						Recommen- dation of the	Congre	essional de	cuments		Anr repo Chie Engir	ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Beach erosion studies—Continued		1										
Cape Cod, Mass., Chatham to Point Gam- mon.			Mar. 29, 1943			Unfavorable	. (1)					
Cape Cod Canal to Race Point, Province- town, Mass.			May 13,1960			Favorable			86			
Carolina Beach and vicinity, North Carolina			. Oct. 5, 1961	2 805, 000		do	. н	*418	87	2		
Carpinteria to Point Wilgu, Calif			_ June 6, 1952	53, 150		do_	H	*29	83	ī		
Chatham, Mass			Feb. 6,1957			Unfavorable	. <u>H</u>	*167	85	1		
Cleveland and Lakewood Ohio			Aug. 16, 1962	60,000		Favorable	. <u>H</u>	*584	87	2.		
Cleveland and Lakewood, Ohio		************	Mar. 25, 1948	851,900		do	. Н	*502	81	2.	- .	
Colonial Deach, va			luno 2 1040	257, 509		do	- H	*206	83	1.		
Compo Beach, Westport, Conn			Lune 2, 1949	33,000		Unfavorable	- H		81	1.		
Connecticut, State of						ontavorable	. n	*239	74	1.	·	
Area 1, Ash Creek to Saugatuck River Area 2, Hammonasset River to East			June 14 1949	203 500		Favorable	н	*454	81	2		
Area 2, Hammonasset River to East			do	139 000		do	- 11	*474	81	- 2		
River.									0.1	۷.		
Area 3, New Haven Harbor to Housa-			_ Mar. 27, 1952	124, 800		do	н	*203	83	1		
										• •		
Area 4, Connecticut River to Ham- monasset River.			Apr. 10, 1952 💷			Unfavorable	_ H	*514	82	2		
Area 5, Pawcatuck River to Thames River.			. Sept. 29, 1952			do	. H	*31	83	1.		
Area 6, Niantic Bay to Connecticut												
River.						ao	. н	*84	83	1.		
			May 4 1953	130 000		Favorable	11	*240	00	•		
Areas 8 and 11, Saugatuck River to	· · · · · · · · · · · · · · · · · · ·		Mar 12 1957	229 000		Favorabledo	. n	*248 *174	83 85	2 -		
Byram River,				220,000		uu		1/4	00	1.		

Area 10, Thames Piver to Niantic Bay. Aug. 21, 1957 Unfavorable H *334 85 2 Coronado, Calif. Sept. 30, 1941 do H *636 77 2 Corpus Christi Beach, Tex. July 16, 1970 525, 000 Favorable H *415 91 2 Daytona Beach, Fla. Mar. 25, 1938 Unfavorable H *571 75 3 Delaware Bay, Cape May Canal to Maurice River, Mar. 15, 1961 do H *196 87 1	
Coronado, Calif Sept. 30, 1941 do. H. *636 77 2 Corpus Christi Beach, Tex. July 16, 1970 525, 000 Favorable H. *415 91 2 Daytona Beach, Fla. Mar. 25, 1938 Unfavorable H. *571 75 3 Delaware Bay, Cape May Canal to Maurice River, Mar. 15, 1961 do. H. *196 87 1	
Corpus Christi Beach, Tex. July 16, 1970 525, 000 Favorable H *415 91 2 Daytona Beach, Fla. Mar 25, 1938 Unfavorable H *571 75 3 Delaware Bay, Cape May Canal to Maurice River, Mar. 15, 1961 do. H *196 87 1	
Daytona Beach, Fla Mar. 25, 1938 Unifavorable H *571 75 3 Delaware Bay, Cape May Canal to Maurice River, Mar. 15, 1961 do H *196 87 1	
Delaware Bay, Cape May Canal to Maurice River,	
N.J.	
Delaware Coast, beach erosion control and hurri- May 13, 1968 3 5, 534, 000 Favorable S *90 90 2	
cane protection	
Delaware coast, Kitts Hummock to Fenwick	
Island.	
Dillingham, AlaskaUnfavorableUnfavorable(1)	
Duval County, Fla	
Ediz Hook, Port Angeles, Wash Aug. 21, 1972 4, 553, 000 Favorable Favorable H 101 93 1	
Fugueton III city of Mar 3 1965 392 000 do H *159 89 1	
Fair Haven Reach State Park N.V. July 22 1954 101 700 do H *134 84 1	
Falmouth Mass Mar 18 1964 Unfavorable H *326 88 2	
Fire Island Inlet to Jones Inlet Long Island N Y Mar. 13 1956 2 724 000 Favorable H. *411 84 2	
Fire Island Inlet to Montauk Point, Long Island, May 27, 1960 2 19, 580, 000 do. H. *425 86 2	
N V	
Folly Reach S C Apr. 1, 1935 Unfavorable H	
Fort Fisher, N.C. Dec. 29, 1931	
Fort Macon, Atlantic Beach and visinity, North Aug. 3, 1962 2218, 000 Favorable H. *555 87 2	
Carolina	
Galveston Bay Tex Aug 9 1950 Unfavorable Oct 14 1953 Unfavorable H *346 83 2	
Caluacton Pay Caluacton County Tay do #1 *345 X1 /	
Galveston Ray Harris County Tex Sept. 24, 1934 do H *74 74 1.	
Columnton Tox	
Galveston Island (gulf shore), Tex. May 22, 1953 do H. 218 83 1	
Grand Isle, La	
Fab. 14, 1955 do. H. *132 84 1	
Haleiwa Beach, Oahu, Hawaii May 15, 1964 572, 400 Favorable H 107 89 I	
Hamlin Beach State Park, N.Y	
Hamlin Beach, N.H. Sept. 12, 1992 Unfavorable (1). Sept. 12, 1992 Unfavorable (1). Oct. 1, 1953 140, 000 Favorable H *325 83 2	
Hancock County, St. Louis Bay, Miss. Mar. 18, 1943 Unfavorable ().	
Harrison County, Miss	
Hawks rest Beach, Ut Lyme, Conn. Aug. 1, 1939 Unitavorable (7). Hills Beach, Biddeford, Maine. Aug. 8, 1962 do. H. 590 87 2	
noily beach, Louisiana (V). Nov. 11, 191 Ulliavoidalle (V). Nov. 11, 191 Ulliavoidalle (V). Allivmond Reach Fla May 14, 1937 do. H. *253 75 1	
Hollywood Beach, Fla May 14, 1937 do. H *253 75 1 Humboldt Bay (Ruhne Pt.) Calif July 24, 1957 38, 200 Favorable H *282 \$5 2	
Humboldt Bay (Buhne Pt.), Calif. July 24, 1957 38, 200 Favorable. H. *282 \$5 2 Hunting Island Beach S.C. Feb. 25, 1964 \$999, 000 do. H. *323 \$6 2	
Illinois shore of Lake Michigan	
Jacob Kils Park, Long Island, N	
Nenosna, Urty 07, W15. May 22, 1958 249, 200 Favorable H 413 85 2.	
Ney West, Fig	

¹ Report not published.
2 Federal cost includes Federal share of beach nourishment for 10-year period.
3 Plus periodic nourishment of the beach.

 ⁴ Plus non-Federal cost of \$561,000.
 5 Federal cost is net cost to the United States and includes Federal share of beach nourishment over the 50-year life of the recommended project.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

	Preliminar	y examinations		Surveys				Where	publish	ed		
						Recommen- dation of the	Congr	essional do	cuments		rei	nnual oort of nief of gineers
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	Chief of Engineers	House or Senate	Num- ber	Con- gress		Yea	r Pag
each Erosion studies—Continued												
Kitty Hawk, Nags Head, and Oregon Inlet,			. Apr. 1, 1935			Unfavorable	н	- *155	74	1		
N.C. Lake County, Ohio			Mar 20 1050			do	u	- *596	81	2		
Lee County, Fla				2 \$731 400		Favorable	- 'H	- *395	91	5		. .
Leland Harbor, Mich			lune 20 1950	· \$/31, 400		Unfavorable	(1)	_ 555	71	_		
Lido Key, Fla			June 19, 1969	2 504, 900		Unfavorable Favorable	. H	*320	91	2		
Long Beach, Calif			_ Mar. 18. 1943			Unfavorable	- (¹)					
Long Island, N.Y., south shore			_ May 12, 1947			dodo	(1)					
Long Island, N.Y., North Shore			Dec. 3, 1970	3, 683, 000	Favorable	Favorable	. Н	*198	92	2		
Lynn-Nahant Beach, Mass			_ Sept. 26, 1950	154, 670		Favorable Unfavorable	Н	*134	82	1		
Manasquan Inlet and adjacent beaches,			_ Aug. 24, 1936	28, 000		Unfavorable	Н	- *71	75	1		
New Jersey.						-	_	-07				
Manatee County, Fla			Oct. 18, 1972	219, 000	Favorable	Favorable	Ş	*37	93 84	ŗ		
Manitowoc County (Two Rivers to Manito-			Nov. 22, 1 9 55	47, 0 00		Favorable	H	*348	84	2		
woc), Wis.						Hafawarahla	(1)					
woc), Wis. Martha's Vineyard, Mass			_ May 12, 1966			Untavorable	- 9					
									75			
Miami Beach, Fla			_ Mar. 5, 193/			do	·- [[*526	79			
Milwaukee County, Wis			. Sept. 28, 1945			uv	//	_ 320	,,	-		
Mission Beach, Calif			. Sept. 30, 1943	9 501 000		Favorable	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	*516	89	2		
Mullet Key, Fla			June 20, 1900	* 501,000		Unfavorable	(1)	510	•••	_		
Nantasket Beach, Mass Narragansett pier, R.I			Sept. 27, 1930	1 152 000		Favorable	н	*195	87			
Nelscott, Oreg	Aug 29 1047	Unfavorable					(1)					
New Hampshire shore	. Mug. 20, 1341	Olliavolable	lan 30 1962	2 255 000		Favorable	H	*416	87	2		
Newport (Cliff Walk), R.I			July 28 1964	3 340 000		Favorable	н	*228	89			
Niagara County, N.Y.			Oct. 17, 1942			Unfavorable		*2/1	78	1		
North Carolina shoreline			Dec. 5, 1947			_do	H	*763	80			
Ocean City, N. I.			July 8, 1952	199.000		Favorable	H 	*184	83	1		
Oceanside, Ocean Beach, Imperial Beach			. Feb. 28, 1956	288, 300		do	H	*399	84	2		
and Coronado, San Diego County, Calif.			•	,								
Ohio shoreline of Lake Frie												
Achtabula to Donneylyania State line			Oct. 22, 1951			Unfavorable	H	*350	82	1		
Chagrin River to Fairport, Lake County		-	Mar. 28, 1950			do	H	*596	81	2		

•	ů	
۰	٠,	

Cleveland and Lakewood	Mar. 25, 1948	851 900	Favorable H	*502	81 2	
Erie County, vicinity of Huron	Oct 16 1942	001,000	linfavorable H	*220	79 1	
FUCIO IO CHARIO RIVEI	NAV Q 1057		- da U	#374 (
Fairport to Ashtabula	Oct 22 1951		do	#251		
Fairport to Ashtabula June 1, 1950 Unfav	orahla		n	-221 6	<i>i</i> 2	
lake County	Man 20 1050		(¹)			
Michigan Ohio State line to Marhlehood	mar. 26, 1930		Untavorable H	*596	31 2	
Michigan-Ohio State line to Marblehead	mar. 15, 1945		H do., H	*177 7	79 1	
Construction to Manuallian	Sept. 29, 1960	* 1, 058, 500	Favorable H.	*63 8	37 1	
Sandusky to Vermilion			Unfavorable H	*32 8	131	
				*126 8	ıs ı	
Shemield Lake Community Park	Oct. 6 1961	103 000	Favorable H	*414 8	<i>i</i>	
Submind rake Alliaga to kocky klast	lan. 23 1953		linfavorable H	*127 9		
Vermilion to Sheffield Lake Village	lune 13 1952	146 000	Fevorable H	*229 8		
Old Orchard Beach, Me	Nov 13 1935	140,000	Hefewerehle (1)	. 223 0		
			Ulliavolable (1)	*********		
Orange County (Newport Bay to San Mateo	Man 0 1000	***************************************		*637 7	6 3	
Creek), Calif.	may 9, 1900	4 422, 000	Favorable H.	*398 8	6 2	
Orange County (Con Cobaiel Birrey to Name of						
Orange County (San Gabriel River to Newport	Aug. 8, 1962	4 2, 845, 000	H	*602 8	7 2	
Bay), Calif.						
Orchard Beach, Pelham Bay, N.Y.	Oct, 7, 1937		Unfavorable H	*450 7	5 2	
Palm Beach, Fla	Nov. 4. 1947	7. 500	Favorable H	•772 8	ກັ ້າ	
Palm Beach County, Fla.:	•	,,		,,,	2	
Lake Worth Inlet to South Lake Worth Inlet	Dec 11 1957	2 351 100	H	*342 8	.E ^	
Martin County line to Lake Worth Inlet and	Dec. 27 1060	1 212 900		1342 8		
South Lake Worth Injet to Broward	Dec. 27, 1900	* 212, 000	n	*164 8	/ 1	
County line.						
Doubleve Joland Edicto Deach and Hunting	0 7 1051					
Pawleys Island, Edisto Beach and Hunting	Sept. /, 1951		Unfavorable (1)			
ISIAIU, S.C.						
Pemberton Point to Cape Cod Canal, Mass	July 30, 1959	² 154, 300	Favorable H	*272 8	6 2	
Perdido Pass, Alabama Point, Ala	May 17, 1955		Unfavorable H	*274 8	i 5 ····	
Perth Amboy, N.J.	Apr. 6, 1965	82.000	Favorable H	*186 8	å i	· · · · · · · · · · · · · · · · · · ·
Pinellas County, Fla	Dec. 22 1953	31 200	doH	*380 8		
.,	Sent 14 1966	2 169 ANO	do	*519 8		
Plum Island, Mass	lan 22 1052	- 103, 400	Unfavorable H			
Point Ludith R I	luly 6 1062	2 414 000	Favorable H			
Point Judith, R.I	July 0, 1902	2, 414, 000	ravorable H	*521 8		
Port Huseama Calif	June 5, 1952	3, 099, 000	do H	*277 8	3 2	
Port Hueneme, Calif	Nov. 10, 1950	4, 041, 000	H	*362 8	3 2	
Presque Isle Peninsula, Erie, Pa	Oct. 10, 1952	1, 753, 000	H	*231 8	3 1	
	Арг. 13, 1960	² 560, 000	H	*397 8	8 2	
Punta Las Marias, San Juan, P.R	Dec. 16, 1947		Unfavorable H	*769 8		
Quincy Shore Beach, Mass	Jan. 4.1951	299.000	Favorable H	*145 8		
Racine County, Wis	Nov 18 1952		Unfavorable H	*88 8		
Raritan and Sandy Hook Bays, N.J	Anr 30 1962	3 097 000	Favorable H	*464 8		
Revere and Nantasket Beaches, Mass	Sant 0 1069	1 2 750 000				
Revere Beach, Mass	Cent 15 1050	227 200	M	*211 9		
norms would, made	зера 15, 1950	337,300	H	*146 82	<i>i</i> 1	
1 Report not published.		1 Penrananta Fad	aral abara of 20 C persons of total Sustanut of			

Report not published.
 Federal cost includes Federal share of beach nourishment for 10-year period.

Represents Federal share of 29.6 percent of total first cost of construction estimated at \$1,150,000.
 First costs only.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

Pack	Date of Recommentation of the Estimated Recommentation of the Propert dation of the Recommentation of the Propert dation of the Recommentation of the Re	Annual report of Chief of Engineers
Beach Erosion studies Continued Rode Sample Recommen Chief of report Recommen Chief of Regineers Recommen Chief of Recommend Chief of Recommen C	Date of report Recomment Date of report Estimated Recomment Recomm	
Rhode Island south shore Aug. 29, 1949 \$134, 000 Favorable H 490 \$1 2 1 1 1 1 1 1 1 1	Rhode Island south shore Aug. 29, 1949 \$134,000 Favorable H *490 81 2	ear Pa
Rhode Island south shore Aug. 29, 1949 \$134, 000 Favorable H 490 \$1 2 Rollover Fish Pass, Tex Une 20, 1962 Uniavorable H 515 \$7 2 Rollover Fish Pass, Tex Oct. 14, 1959 Uniavorable H 526 \$6 2 \$8 2 \$1 \$1 \$1 \$1 \$1 \$1 \$1	Rhode Island South shore Aug. 29, 1949 \$134,000 Favorable H *490 81 2	
Rockport, Mass June 20, 1962 Unfavorable 1 315 8 7 2	Rockport, Mass June 20, 1962 Uniavorable H. 1515 87 2 1516 1516 1517	
Rollover Fish Pass, Tex.	Rollover Fish Pass, Tex Oct. 14, 1959 Oc	
Second Apr. 26, 1956 Apr. 27, 1974 Apr	Saco, Me. Apr. 26, 1956 do H. *32 85 1 \$1. Johns County, Fla. May 12, 1966 do S *97 89 2 \$1. Johns River, Fla. (1) St. Lucie Inlet, Fla. Mar. 22, 1974 3, 738,000 Favorable Favorable H. *294 93 2 \$1. St. Simon Island, Ga. June 4, 1940 7, 500 Unfavorable H. *820 76 3 Schibburg Peach Marc June 19, 1962 do H. *517 87 2	
St. Johns Kiver, Fia Dec. 26, 1950 Unfavorable May 12, 1996 May 22, 1974 3, 738, 000 Favorable Favorable H *294 93 2 St. Livelie Inlett, Fia June 4, 1940 7, 500 Unfavorable H *294 93 2 St. Simon Island, Ga. June 4, 1940 7, 500 Unfavorable H *294 93 2 St. Simon Island, Ga. June 19, 1962 do H *517 87 2 St. Simon Island, Ga. June 19, 1962 do H *477 89 2 St. Simon Island, Ga. June 19, 1962 do H *478 89 2 St. Simon Island, Ga. June 19, 1962 do H *456 86 2 St. Simon Island, Ga. June 19, 1962 do H *456 86 2 St. Simon Island, Ga. June 19, 1962 do H *456 86 2 St. Simon Island, Ga. June 19, 1962 do H *457 87 2 St. Simon Island, Ga. June 19, 1962 do H *575 87 2 St. Simon Island, Ga. June 19, 1962 do H *361 84 2 St. Simon Island, Ga. June 19, 1972 June 21, 1973 do H *562 75 3 St. Simon Island, Ga. June 21, 1973 do June 21, 1973 do H *343 83 2 St. Simon Island, Ga. June 21, 1983 do June 21, 1983 do June 21, 1983 do H *344 83 2 St. Simon Island, Ga. June 21, 1983 do June 21, 1983 do H *348 do H *348 do H *348 do H *348 do H *349 d	St. Johns County, Fla. Dec. 26, 1950 Unfavorable (1) St. Lucie Inlet, Fla. Dec. 26, 1950 Unfavorable (1) St. Lucie Inlet, Fla. June 4, 1940 7, 500 Unfavorable H. *820 76 3 St. Simon Island, Ga. June 4, 1940 7, 500 Unfavorable H. *820 76 3 Calcitype People Marc (4) 4 7, 500 Unfavorable H. *820 76 3	
St. Lucie Inlet, Fla.	St. Lucie Inlet, Fla. Mar. 22, 1974 3, 738,000 Favorable. Favorable. H. *294 93 2. St. Simon Island, Ga. June 4, 1940 7, 500 Unfavorable. H. *820 76 3. Sclickweighter Lighter 1962 do. H. *517 87 2.	
St. Simon Island, Ga. St. Simon Island, Ga. Salisbury Beach, Mass June 19, 1962 San Diego Calift (Sunset Cliffs) Mar 4, 1966	St. Surger Hieler, real St. Simon Island, Ga. June 4, 1940 7, 500 Unifavorable H. *820 76 3 St. Simon Island, Ga. June 4, 1940 7, 500 Unifavorable H. *517 87 2 do H *517 87 2	
St. Simon Island, Ga	St. Simon Island, Ga. June 4, 1940 7, 500 Unitavorable H. *820 / 6 3	
Salisbury Beach, Mass June 19, 1962 480, 000 Favorable H 477 89 2	Caliaburu Daanh Mana	
San Diego, Calif. (Sunset Cliffs)		
Beach, and Coronado, Calif. Aug. 29, 1962 2 139, 400 do		
Beach, and Coronado, Calif. Aug. 29, 1962 2 139, 400 do	San Diego County, Calif Aug. 25, 1960 1, 498, 000 00 H 4399 86 2 Oceanside. Goean Beach, Imperial Feb. 28, 1956 288, 300 do H 4399 84 2	
Sandy Hook to Barnegat Inlet, N.J. July 15, 1955 3, 930, 600 de	Beach, and Coronado, Calif.	
Santa Barbara, Calif Sept. 9, 1957 2, 9, 350, 000 do	580 JUSO, P.R	
Santa Barbara, Calif Santa Barbara, Calif Mar. 12, 1938 Unfavorable H *552 75 3	Sandy Healt to Paragrat Inlet N. I. 1955 3 939 600 de de 7351 84 4	
Santa Cruz County, Calif. Dec. 5, 1947 John Feb. 26, 1957 Sea Island, St. Simon's Island, and Tybee Apr. 5, 1972 Unfavorable U	Sept. 9, 1957 2 9, 350, 000	
Santa Cruz County, Calif. Sept. 26, 1957 516, 000 Favorable H *179 85 1		
Sea Island, St. Simon's Island, and Tybee Apr. 5, 1972 Unfavorable Unfavorable	Dec 5 1947	
Sea Island, St. Simon's Island, and Tybee Apr. 5, 1972	Santa Cruz County, Calif Feb. 26, 1957 516, 000 Favorable il 179 85 1	
Selkirk Shoras State Park, N.Y Dec. 28, 1953 133, 600 Favorable H *343 83 2 Sheffield Lake Community Park, Ohio Oct. 6, 1961 109, 300 do H *414 87 2 South Kingstown and Westerly, R.I June 27, 1958 160, 300 Favorable do H *30 86 1 Tybee Island, Ga. Nov. 3, 1970 529, 000 Favorable do H *105 92 1 Ventura, Calif May 4, 1962 709, 000 do H *458 37 2 Virginia and Biscayne Keys, Fla Aug. 15, 1962 2700, 000 do H *561 87 2 Virginia Beach, Va Oct. 6, 1961 500, 000 do H *186 83 1 Waikiki Beach, Oahu, Hawaii Jan. 23, 1953 227, 000 Favorable do H *365 92 2 Waikiki Beach and Hanapepe Bay, Kauai, June 4, 1964 72, 490, 000 Favorable do H *	Sea Island, St. Simon's Island, and Tybee Apr. 5, 1972 Untavorable Untavorable (1)	
Sheffield Lake Community Park, Ohio. Sheffield Lake Community Park, Ohio. South Kingstown and Westerly. R.I. I June 27, 1958 2 160, 300 do H *30 86 1 Tybee Island, Ga. Nov. 3, 1970 529, 000 Favorable do. H *105 92 1 Ventura, Calif. Ventura, Calif. Aug. 15, 1962 2 700, 000 do H *4561 87 2 Virginia and Biscayne Keys, Fla. Aug. 15, 1962 2 700, 000 do H *186 83 1 Virginia Beach, Va. Oct. 6, 1961 500, 000 do H *382 87 2 Mar. 1, 1972 11, 179, 000 Favorable do. H *382 87 2 Waikiki Beach, Oahu, Hawaii. Jan. 23, 1953 227, 000 do H *385 92 2 Waikiki Beach, Oahu, Hawaii. Jan. 23, 1953 227, 000 do H *227 83 1 June 4, 1964 72, 490, 000 Favorable do. H *104 89 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220, 000 do H *432 84 2	15laniu, Gd	
South Kingstown and Westerly, R.I. June 27, 1958 2160, 300 do. H. *30 86 1		
Solid Kingsown and Western, Nov. 3, 1970 S29, 000 Favorable do. H *105 92 1		
May 4 1962 7.03 100 do		
Verignia and Biscayne Keys, Fla Aug. 15, 1962 700,000 do H *561 87 2 Virginia Beach, Va Aug. 22, 1952 675,000 do H *186 83 1 Virginia Beach, Va Oct. 6, 1961 500,000 do H *382 87 2 Mar. 1, 1972 11, 179,000 Favorable do H *365 92 2 Waikiki Beach, Oahu, Hawaii Jan. 23, 1953 227,000 do H *227 83 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220,000 do H *104 89 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220,000 do H *432 84 2		
Virginia Beach, Va		
Waikiki Beach, Oahu, Hawaii Oct. 6, 1961 0 500, 000 do. H. *382 87 2 Waikiki Beach, Oahu, Hawaii Jan. 23, 1953 227, 000 do. H. *227 83 1 Waimea Beach and Hanapepe Bay, Kauai, June 4, 1954 72, 490, 000 Favorable do. H. *104 89 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220, 000 do. H. *432 84 2		
Waikiki Beach, Oahu, Hawaii Jan. 23, 1953 227,000 do. H *365 92 2 Waikiki Beach, Oahu, Hawaii Jan. 23, 1953 227,000 do. H *227 83 1 June 4, 1954 72, 490,000 Favorable do. H *104 89 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220,000 do. H *432 84 2		
Waikiki Beach, Oahu, Hawaii Jan. 23, 1953 227, 000 do. H *227 83 1 June 4, 1954 12, 490, 000 Favorable do. H *104 89 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220, 000 do. H *432 84 2	000, 0, 1301	
June 4, 1954 12, 499, 000 Favorable do. H *104 89 1 Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220, 000 do. H. *432 84 2	111di. 1, 10/L 11, 1/0, 000 1 2101 251 251	
Waimea Beach and Hanapepe Bay, Kauai, Apr. 25, 1956 220, 000 do H. *432 84 2		
Nessagussett Beach, Weymouth, Mass Dec. 11, 1959 132, 000 do H *334 86 2	Hawaii,	

Willoughby Spit, Va Winthrop Beach, Mass Wrightsville Beach, N.C				. Oct.	10, 194	7 216, 0	000 .		Unfavorable Favorable Unfavorable	Н		75 80 73	2 .		
Beach Haven Inlet, N.J.	_ May	31, 1939	Unfavorable	Mar	. 22, 196	62 ² 374, 0	000 .	•	- Favorable	- H	*511	87	2 .		
Beach Thoroughfare, N.J., at and near, meeting of tides from Absecon and Egg Harbor Inlets (see also Absecon Inlet, and Atlantic City Harbor).	June											54 56	2 2	1897 1901	1235 1353
Beals Creek at Big Spring, Tex				Dec.	4, 197	0 1, 578, 0	100	Favorable	. Favorable	. н	*115	92	1.		
Beals Harbor, Maine Bear Creek and Lynch Cove, Md Bear Creek, Calif. (See Merced County streams,	. Dec.	18, 1946 3, 1946	Unfavorable	_ June	3, 194	7 85,7	00 _		Favorable Unfavorable	- H	*553	80	2		
Littlejohn Creek and Calaveras River stream groups.)															
Bear Creek Basin, Coto				^ .	00'101	, , , , , , , ,			Favorable		*87	90	2 .		
Bear Creek Kv	Διισ	17 1925	Favorable	Aug	21 102	ວ 220,00 ເ 10,00	.00	Favorable	do	- H	*356	78			
Bear Creek. Md	lune	21 1933	Unfavorable	. Aug.	31, 192	° (33,0	.00		Favorable]}H	685	69	2 _		
Bear Creek, Md. Bear Creek, Md. Bear Creek, Md. Bear Creek, Miss. (branch of Yazoo River)	Aug.	22 1895	Unfavorable	Dec.	10, 188	6,00	00 _		Unfavorable	- (') . S. Ex	69	47	- <u>-</u>	1882	1563
	Oct.	10, 1907	Unfavorable Favorable (1)	Apr.	4, 190	3, 00	00	Favorable	Favorable	. н	908	60		1895	
	May	12, 1916	8							- 뷤	1696	64 69	2.		
Bear Creek, Miss. and Ala., a tributary of Ten- nessee River.	Mar.	27, 1940	Favorable	Aug.	12, 194	3			Unfavorable	. (1)	40/				
Bear Creek or River, Miss. and Tenn., branch of Tennessee River (see also Tombigbee River and Big Bear River, and Tennessee River and												47	1	1882	1869
tributaries). Bear Creek, Mo. (See Mississippi River.)															
Bear Creek, San Joaquin County, Calif Bear Creek Harbor, Lake Ontario, N.Y.				July	22, 1960)			Unfavorable	. (¹)					
Bear River, Calif. (See Sacramento and Feather Rivers and tributaries; Sacramento River and tributaries, debris control: Sacramento River				Oct.	28, 18/2	2 250, 00	JO .			. S. Ex	25	42	3	1873	385
and tributaries, Collinsville to Shasta Dam;				•											
and Sacramento-San Joaquin Basin.) Beaufort Harbor, N.C. (see also North River to				lan	20 1991	92 00	10 E	awarahla							
Beaufort Harbor, N.C., water route; New Bern			Favorable		-,		00 .	avoraniedodo	Favorable	. H. EX	78	46			1013
to Beaufort Harbor, inland waterway; Core Sound to Beaufort Harbor; and Pamlico	-				,	7) 27,67	/6 _		Favorable	} ⁿ	*511	61	2	• • •	
Sound to Beaufort Harbor, etc.).	Apr.		do			53, 10	00 F	avorable	Favorable	}H	*1108	63	2 .		
	Aug.	5, 1935	Unfavorable	may	6, 1924	9, 50	JU _	do	Favorable	. H. Com	*8	68	2 .		
1 Report not published	_														

Report not published.
 Federal cost includes Federal share of beach nourishmen for 10-year period.
 Federal cost includes Federal share of beach nourishment fo 25-year period.
 Abandonment of project recommended.

Favorable for Gallants Channel route only
 Plus non-Federal cost of \$809,000.
 Plus non-Federal cost of \$1,310,000

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

	Preliminary	examinations		Surveys		_		Where	e publish	ed		
						Recommen- dation of the	Congre	essional do	cuments		Ann repor Chie Engin	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
aufort Harbor, N.C.—Continued			May 5 1020	\$64 000	Favorable	Favorable	บ	*334	70			
And Gallants and Bulkhead Channels Breakwater	Oct. 28. 1925	Favorable	Dec.28, 1926	55, 000	ravolable	ravolable	. H	*776	76 69	2.		
Breakwater	Feb. 13, 1893	Unfavorable				Unfavorable	H. Ex	. 246	52	2	1893	1457
To New River, N.C., inland waterway	Jan. 27, 1883	00	F.L 0 1005 1	6,000)		. 5. £x	. 30	48	_	1884	1055
	Oct. 24, 1884	Favorable	reb. 2, 1885	62,000	}ravorable		. H. EX	_ 258	48		1885	1133
aufort Inlet, N.C. (see also Albemarie Sound	Feb. 29, 1916						. н	*1775	64	2.		
o Ocracoke and Beaufort Inlets; Norfolk to Beaufort Inlet Waterway; and Morehead City larbor, N.C.): And Harbor, N.C.	July 23, 1907 Oct. 15, 1930	Favorable Unfavorable	Oct. 1, 1908	142, 000	Unfavorable	_ Unfavorable	H - (')	*1454	60	2		
To Boston, Mass., waterway. (See Boston Harbor; and Boston to Beaufort Waterway.)												
To New Bern, N.C., via inland waterway	July 6, 1931	do				do	_ (1)					
and Neuse River. aufort Inlet to Bogue Inlet, N.C. (See Hurri- cane studies.)												
aufort, N.C., to Cape Fear River (see also New River up to Richlands, N.C.; and Mason- boro Inlet and connecting channels):												
And waterway to Jacksonville, N.C., inland	F-L 02 1022		Dec. 14, 1936	6,000	Favorable	Favorable	. Н	* 16	75	1.		
waterway. Inland waterway, Wrightsville Beach, N.C	reb. 2/, 193/	Unfavorable	Jan. 27, 1941	9,000		Unfavorable Favorable	- (¹)	*346	<u>77</u>	;		
Intracoastal Waterway				5, 800, 000	Favorable	Favorable	- in	*450	69			
Thirdoodstar materinafications	June 13, 1323		Nov. 3, 1939	3, 200, 000		Favorable do	_}'''	*660	76			

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	•	J

Beaufort, N.C., to Jacksonville, N.C., and New River to Jacksonville, N.C., inland waterway			Apr.	29, 1947	196, 10	0	do	. н	*421	80	1		
(see also New River, N.C., up to Richlands).													
Beaufort, N.C., to Key West, Fla., waterway			lide	1 1911	21 054 00	O Faucable	11.0						
Deautoff to Cape rear River	1		, , , ,	1, 1311	31, 034, 00	u ravorable	Unfavorable	. H	*229	63	1.		
Cane Fear River to Little River	ł			,	2 072 11	• •							
little River to Winyah Ray	i			í	2, 872, 11	1)							
Winyah Bay to Charleston Harbor				i	3, 724, 21	9							
					5, 677, 80	0 [
Charleston Harbor to Savannah River	(1, 227, 80		. Favorable	H	*229	63	1		
Charleston Harbor to Savannian Kiver	·/		Apr.	12, 19122 (427, 40	0 (227	0.5	٠.		
Cayannah Diyar ta Faranatina				ŀ	195, 00	0 [
Savannah River to Fernandina	-1				251, 72	6 /							
Fernandina to St. Johns River	.				2, 491, 056	5)	Unfavorable	u	*229				
St. Johns River to Indian River	. I			(2, 127, 95	i }		n	~229	63	1.		
Indian River to Key West	./			,	2, 127, 33	,							
Beaufort River, S.C. (see also Savannah, Ga.,			May	12 1880 (1 90	٠,							
					0,000	Unfavorable		S Fx	195	46	2	1880	1000
· · · · · · · · · · · · · · · · · · ·	Nov. 23, 1888	Favorable	Nov	26 1990	25, 300	()		0. En	133		2	TOCA	1032
	Apr. 7 1903	do		20, 1003	23, 000	,		H. Ex	42	51	1	1890	1234
Beaufort River and Port Royal Harbor S.C.	luly 30 1925	do					Unfavorable	H	199	58	2	1904	1565
And adjacent waters	3019 30, 1323		(0-4	31 1031			do	(1)			_		1000
	Nov. 1, 1930	do	JUCI.	31, 1931	· • • • • • • • • • • • • • • • • • • •	Unfavorable	do	(1)					
Beaufort River and Port Royal Harbor, S.C And adjacent waters Beaufort River and Port Royal Sound up to Beaufort, S.C.	Nov. 18, 1920	Unfavorable	(101y	24, 1928		do	do	(1)					
Beaufort, S.C., anchorage basin. (See Charleston, S.C., to St. Johns River, Fla.)								· /					
S.G., 10 St. Johns River, Fla.)													
Beaufort, S.C., to Savannah, Ga., waterway.													
(See Charleston, S.C., to Savannah, and													
Beaufort River, S.C.)													
Beaumont and Orange to Sabine Pass, Tex. (See Sabine and Naches River.)													
Beaumont Harbor, Tex. (See Neches River.)													
Beaumont-Kirby Canal, Tex. (See Sabine-										-			
Beaumont-Kirby Canal, Tex. (See Sabine- Neches Waterway, Texas-Beaumont-Kirby Canal.)													
Beaumont turning basin extension, (See Sabine-													
Neches Waterway, Tex.)													
Beaver Bay, Minn, (See also Coasts of the Great			lan :	22 1002	140								
Lakes, harhors of refuge for light-draft	Oct 17 1007	Unfavorable	Jan.	23, 1882	149, 666			S. Ex	103	47	1	1882	2108
Lakes, harbors of refuge for light-draft vessels).	Oct. 17, 1907	Omavorable						H	450	60	ī		2100
											• -		
1 Report not published.					2 Supple	mental report.							
· · ·					- Supple	mental report.							

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	publishe	ed		
						Recommen-	Congre	essional do	cuments		Anni repor Chie Engin	rt of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Beaver Bay River, Minn Beaver Brook Dam and Reservoir, at and in vi- cinity of Keene, N.S.	Sept. 22, 1931	Unfavorable	Aug. 28, 1967	² \$319, 500	Favorable	Unfavorable Favorable	H	- *226 - *68	72 90	1 2		
Beaver Creek, flood control. (See Fall River and Beaver Creek, S. Dak.; Kansas River and tribu- taries, Colorado, Nebraska, and Kansas.) Beaver Creek, Lincoln County, Oreg Beaver Creek, Okla, Waurika Reservoir Beaverkill Creek, N.Y., flood control	Aug. 21, 1937	do	June 24, 1970 May 6, 1963	3 11, 252, 200	Unfavorable	_ Unfavorable Favorable _ Unfavorable	- (1) - \$	_ *33	88	1		
Beaver River, Okla. (See North Canadian River, Okla. and Tex.) Beaver River, Pa Beaver, Shenango, and Mahoning Rivers, Pa. and Ohio									58 73		1904	
Ohio. Beaver Slough at Clinton, Iowa Beaver Slough, Oreg., Westport Slough to Wal-	lan 14 1 0 31	Unfavorable	July 27, 1933+1 May 20, 1955	34, 460, 000 37, 000, 000 230, 00 0	00	FavorabledoUnfavorable		*345	84	2		
Beech River, Tenn	Oct. 28, 1907	do				do	н	_ 58	60	1		
Beechridge, III. (See Mississippi River.) Beifast Bay and Harbor, Maine Beifast Harbor, Maine	Jan. 3, 1889	Favorable	Dec. 9, 1875 Dec. 20, 1889	347, 000 52, 000 35, 000	Favorable	Favorable	Н. Ех . Н. Ех . Н.	71 81 *1885	44 51 64	ī	1876 1890	455
Belhaven Harbor, N.C	Jan. 12, 1926	Favorable	Jan. 26, 1927 Feb. 10, 1937	55,000	Favorable	Unfavorable do Favorable Unfavorable	H H	- *1098 - *778	62 69	2		
Dellaire Ohio (Con Ohio River)	Mag. 23, 1333	Omayorable	May 2, 1938 Dec. 12, 1950	53, 090 13, 500	Favorable	Favorable	Н Н	*693 *389	75 82	2		
Bellaire, Ohio. (See Ohio River.) Bellamy River, N.H	Jan. 13, 1887 May 12, 1926	Favorable	July 26, 1887	28, 000	do	. (6)	. н	467	69	i	_ 1887	

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e.

Belle Fountain Ditch and Drainage District No. 17, Mississippi County, Ark.				. Apr.	. 11, 1968 ⁷	4, 638, 000	Favorable	Favorable	. н	*339	90	2	.	
Belle Fourche River and tributaries, Wyoming, flood control.	July	19, 1937	Unfavorable	. Oct.	. 15, 1940		Unfavorable	Unfavorable	(1)				. 	
Belle Glade, Lake Okeechobee to Intracoastal Waterway, Fla.	Dec.	15, 1 9 50						do	(1)					
Belle Pass to Raccoon Point, La. (See Beach														` `
Erosion studies.) Belleplaine, Minn. (See Minnesota River.) Belle (Bell) River, Mich				. Mav	v 8. 1880	17, 500	Favorable.		S. Fx	176	46	2	1880	205 9
, , ,	Jan.	27, 1893	Favorable	. Nov	. 30, 1895	21, 340	do	Favorable	. H	72	54	į	1896	2745
Belle (Bell) River, Mich	Nov.	6, 1939	Favorable	Mar	. 9, 1942			Untavorable	. H	. 642	64	1		
Pollows Jame (Con Missississis Diver)														
Bellevue, Iowa. (See Missisppi River.) Bellevue, Ohio, and vicinity Bellingham Bay, Wash. (see also New Whatcom Harbor). Bellingham Harbor, Wash	Sept	. 6, 1955 1 1895	Favorable	Lun	0 14 1907	90 000	Foundation	do	. (1)					- 5 3 5 5
Harbor).	3011.	1, 1033		Juii	E 14, 103/	80,000	ravolable	ravotable	-}" (H	. 228 . 80	55	3 1	1895 1897	3478
Bellingham Harbor, Wash	Apr. Mav	27, 1907 7, 1923	do	Mar	r. 26, 1908	92, 250	do	do Unfavorable	. H	*1161	60	2 _		
	June	10, 1925	Untavorable					do	. (!)					
				Mar Apr.	r. 20, 1951 . 18, 1957	1, 224, 300 8 83, 700		Favorabledo	. H	. *558 *46	82 85	2 -		
Squalicum Creek Waterway	May	12, 1927	Favorable	_ Nov.	. 22, 1927 {	75, 000 25, 000	Favorable	Favorable	}H	*187	70	1		
Squalicum Creek Waterway	1	27 1021	11-4	July	15, 1935	2,000		Tavolable	H. Com	. 70	74	1		
	Jan.	27, 1931	Untavorable					Unfavorable	(1)					
Bellingham, Wash. (See Whatcom Creek at.) Bellows Pond and Canada Lake drainage area, Fulton County, N.Y., flood control.	Nov.	. 14, 1939	do					do	(1)					
Belton Reservoir. (See Brazos River and tribu- taries, Oyster Creek and Jones Creek, Tex.) Belvedere. (See Delaware River, N.Y., Pa., N.J.,														
and Del dams)														
Belvedere Cove, Calif Belvedere Harbor, Calif	Mar. Feb	10, 1936 26, 1903	do					do	. (1)			· <u>-</u>		
												2	1904	3424
Benicia Harbor, Solano County, Calif	Mar.	10, 1930	do		• • • • • • • • • • • • • • • • • • • •			do	· (!)					
Bennetts Creek, Va	Δ	10 1042	Unfavorable	_ Dec.	8, 1888	32, 835	Favorable	Favorable					1889	971
Bennetts Creek, Va York County, Va	Aug.	10, 1943	Omavorable	Feb.	14, 1964		Unfavorable	Unfavorable do	(1)					
1 Report not published.						6 Abandor	nment of project	recommended.						
 Plus non-Federal costs of \$557,500. Plus non-Federal costs of \$13,847,800. 						7 Mississi	ppi River Comm	ission report. stimated at \$3,400,	v local interes	te at 2 a nec	aant al 41	ha aac4	al des	da:a
4 Supplement report. 5 Only the supplemental report is printed.						9 Annuali	y.	atimat o u at #3,400,1	y iocai miere:	us or 3.5 per	cent of U	re cost	oi ais	iging.
· Omy the supplemental report is printed.														

⁶ Abandonment of project recommended.
7 Mississippi River Commission report.
8 Plus cash contribution, estimated at \$3,400, by local interests of 3.9 percent of the cost of dredging.
8 Annually.

4

IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congre	ssional do	cuments		repo Chie	nual ort of ef of neers
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Pag
Geneett River, N.C	Aug. 15, 1905 Oct. 25, 1912	Unfavorable Favorable 3	Dec. 5, 1912	\$6,000	Favorable	Unfavorable Favorable	H	179 *13 6 2	59 62	1 3		
Benton Harbor and Čanal, Mich. (See St. Joseph Harbor and River.) Beresford Creek, S.C., from Cooper River to Bridge Farm wharves. Beresford Lake, Fla. (See St. Johns River to									76	3		
Lake Beresford, Fla.) Bergen Neck, N.J., ship canal			Jan. 10, 1880	3, 332, 426			. S. Ex	69	46	2	1880	*52
Bergen Point, N.J. (See Weehawken to.) Berkeley Harbor, Calif. (see also Oakland, Albany, Berkeley, and Emeryville Harbors).	Jan. 28, 1918	Unfavorable				Unfavorable	. H	*1076	65	_		
Bernard Bayou, Miss. (See Back Bay and Bayou												
Bernard to Handsboro, Miss.)_ Berrians Creek, N.Y	Nov. 1, 1892	do				do	H. Ex	80	52	2	1893	99
studies.) Berry Lake, Ind Berwick Bay to Gulf of Mexico, waterway (see also Atchafalaya River and Mississippi River).	Jan. 3, 1889 Jan. 20, 1891	do				do	Н. Ех	198	5	2	1889 1891	215 184
asso Atomataya were and mississippi aver). Bessie, Tenn. (See Mississippi River.) Bete Grise Bay, Mich. (see also Keweenaw Point, Mich., barbor of refuge.)	Jan. 24, 1936	do				do	(1)					 -

Bethany Beach. (See Rehobeth Beach, Bethany Beach, etc., Delaware).													
Bethel Harbor, Alaska. (See also Kuskokwim	Oct.	21, 1936	do					do	(I)				
River, Alaska.)		,						uv	. ()				
Bethlehem, Pa. (See Lehigh River, Pa.)													
Betterton Harbor, Kent County Md	. May	14, 1948	Favorable	. Sept.	19, 1955	78, 000		_ Favorable	H	*333	84	2	
Beverly Harbor, Mass. (see also Salem Harbor).	_ Nov.	1, 1888	do	Dec.	2, 1889	(3)		do			51		39 0 525
	Aug.	9, 1899	Unfavorable					_ Unfavorable	H	52	56	1 19	000 1182
	Aug.	13, 1900	Favorabledo	NOV.	ZU, 1900	10,000	Favorable	Favorable	H	129 •916	56 59		001 1065
			do			33, 606 173 000	do	do	D	*220	63	ļ	
	Jan.	14 1914		JUNO	10, 1313	173,000		uv	H Com	. 220	63	j	
	34	,		Nov.	16. 1920	321.000	Favorable	Favorable	H. Com	7	66	3	
Outer Harbor	_ Sept	. 30, 1910	Unfavorable			,		Unfavorable	H	79	62	ĭ	
Biddeford (See Wood Island Harbor, Maine.)	_ :												
Bidwells Creek, N.J. (Cape May County)	Oct.	20, 1930	do					do	(1)			· 	·
Diamona Barrar La	Mar.	10, 1939	00					do	(1)			~ -	
Bienvenue Bayou, La	. mar.	5 1031	40				•	do	}::				
Rie and Little Crassy Cracks III	Julio	J, 1331		Nov	7 1941			do	X				
Bienvenue Bayou, La	Dec.	7. 1935	Favorable for	Mar.	27, 1936	20, 000	Favorable	Favorable	H	*498	74		
			RIE ZUZIMICO.										
Big Annemessex River, Md. (See also Crisfield	Jan.	2, 1914	Favorable	Oct.	13, 1914	5, 600	do	do	H	*1328	63	3	
Harbor, Md.).		•											
Big Assawoman Bay, Del. (See Chincoteague													
Bay, Va., to Delaware Bay, etc.) Big Barataria Bayou, La. (See Barataria Bay and		•											
connecting waters.)													
Big Barren River, Ky. (See Barren River and													
Green and Barren Rivers, etc.)													
Big Bay, Mich. (See Coasts of the Great Lakes,													
harbors of refuge for light-draft vessels.)													
Big Bayou Meto (Metre), Ark			Unfavorable						S. Ex	30	48		384 1408
Big Bear River or Creek, branch of Tennessee	Mar.	12, 1887	Lavotable		26, 1882 27, 1887	5, 900			S. Ex	92	47	1 18	182 1869
River, Miss. and Tenn. (See also Tombigbee River and Bear Creek).				ou.	ZF, 1007					84	50	1 18	1639
Big Black River, Miss				Dec.	10, 1881	# 32, 000			S Fx	69	47	1 16	1565
	July	18, 1902	Unfavorable					Unfavorable	H	207	58		1363 104 2072
	Apŕ.	27, 1911	do					do	H	242	63	ī	
	May	12, 1926	(6)		::			(1) Unfavorable	H	467	69	1	
And tributaries—flood control				Mar.	21, 1 932		_ Unfavorable	_ Unfavorable	H	•72	73	1	

Report not published.
 Below Gatesville only,
 No estimate.

Included in report on New Orleans industrial canal.
 Cox's Ferry to mouth.
 Abandonment of project recommended.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congre	essional do	cuments		Ann repo Chie Engir	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Big Blue River, an affluent of the Kansas River and its tributaries, Kansas, flood control (see also Kansas River and tributaries, Colorado,												
Nebraska, and Kansas.)	May 28, 1931	do				do	(¹) . (¹)					
Missouri River. g Bull Creek, S.C. g Brush Creek and tributaries, Tennessee	Jan. 23, 1953					do	. (1)					
River, Tenn. ig Chazy River, N.Y ig Coal and Little Coal Rivers, W. Va. (see also	Dec. 19, 1928 Sept. 29, 1894	Unfavorable do				do	_ H .Ex	- 490 - 82	71 53	3	1895	2465
Coal River). ig Creek, Ark. and Kans. (See Boeuf and Tensas Rivers and Bayou Macon, Ark. and La.) ig Creek, Ga. (See Ocmulgee to Flint River Waterway.) ig Creek, Hays, Kans. ig Deadmans Creek, Calif. (See Merced Compte									89	1		
County streams.) ig Elk Creek and Elk River, Cacil County, Md., flood control. ig Elk River, Oreg. ig Escambia Creek, Fla. (See Escambia River,	Mar. 27, 1939 Oct. 15, 1897	do				do	- (') H	_ 112	55	2	1898	2997
Fla. and Ga.) ig Fork and Little Fork Rivers, Munn ig Fork River, Minn ig Fossil Creek, Richland Hills, Tex	. May 12, 1932		May 10, 1960	2 1, 851, 400 30, 000		do	. H	*407	59 73 8 6	1	1880	
tig Hatchie River, Tenn. (see also Hatchee River). tig Hill Creek, Kans	July 7, 1902	Unfavorable	Aug. 1, 1962	3 2, 522, 000		Unfavorable Favorable	. н	243 *572	58 87	2	1904	2348

24

Big Hockhocking (also known as Big Hocking)	Jan. 11.188	7 Favorable	Nov 25 1997	F 000						
			1104. 20, 100/	5, 000	Unfavorable	Н. Ех	88	50	1 1888	1720
Big Horn Canyon Reservoir, Wyo. (See Yellow- stone River and tributaries, Wyoming, Mon-										
Lana, and North Dakota 1										
Big Horn River, Mont. (See Yellowstone River and tributaries, Wyoming, Montana, and										
North Dakota.)										
Big Iron River, Mich Big Kanawha River, W. Va. (See Kanawha River.)	Aug. 19, 1952				da	413				
Big Kanawha River, W. Va. (See Kanawha River.) Big Kingston Creek, Md Big Lagoon, Fla. (See Pensacola Bay to Mobile	Data C 1040		`	***************************************	do	- (1)				
Big Lagoon, Fla. (See Pensacola Bay to Mobile	Dec. 6, 1946	Unfavorable			do	. (1)				
Big Lagoon to Pensacola Harbor, Fla. (alternate route.)			July 6, 1949	88, 000	Favorable	н	+325	01	1	
BIR Lake. (See St. Francis River Mo and Art)								01		
Big Marco Pass and Harbor at Big Marco, Fla. (see also Naples Bay, Fla., to Gordons Pass,	Dec. 18, 1946	Unfavorable			Unfavorable	ш	1437		•	
etc)								62	3	
Big Muddy River, [1] Big Muddy River (Muddy Creek), Butler County, Ky. (see also Green, etc.)	Jan. 26, 1926	do			4.	413				
Ky. (see also Green, etc.)	July 31, 1915	do			do	- (')	*525			
Big Plass, Fla. (See Clare Harbor.)	Jan. 13 1937	Favorable	Mar 21 1040			- 11	323	04	1	
Rig Page Fla (See Classicates Hauter)			Aug. 6, 1948	Untavorable	do	· (!)	·			
DIS TROUBLINGS, TEHIL AND N.C. (NER LENNASSES						. (+)				
					,					
Big Piney Creek, Ark., flood control In Pope and Johnson Counties Big Salkehatchie River, S.C. (See Combahee	Sept. 27, 1948	4			do	(1)				
Big Salkehatchie River, S.C. (See Combahee	Aug. 16, 1938	Unfavorable			do	(1)		· 		
and Big Salkehatchie Rivers, S.C.)						,,				
Big Sand Creek, Miss., vicinity of North Carroll- ton, prevention of bank caving.			_ Nov. 8, 1940	Unfavorable	do	(1)				
Big Sandy Creek and Mexico Bay, N.Y.	Oct. 28.1955					()				
Big Sandy Creek and Mexico Bay, N.Y. Big Sandy Creek and Mexico Bay, N.Y., harbor on Mexico Bay. Big Sandy Creek N.Y.	July 8, 1936	Unfavorable			do	(1)				
Big Sandy Creek, N.Y					uv	()				
			_ Jan. 22, 1829 Sept. 30, 1875	36, 465 182, 600		H	106	20	2	
1 Report not published.			,	102,000		H. Ex	92	44	1 1876	603
2 Plus cash contribution estimated at \$8 600	by local intere	sts of 0.46 perce	ent of the cost for	3 Plus non-Federal cost of	\$1,263,000 allocated	for water supp	ly.			
construction	by local intere	sts of 0.46 perce	ent of the cost for	4 Plus non-Federal cost of	\$1,009,000	i ioi water supp	y.			

intribution, estimated at \$8,600, by local interests of 0.46 percent of the cost for 4 Plus non-Federal cost of \$1,009,000. construction.

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congres	sional do	cuments		Ann repoi Chie Engin	rt of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Big Sandy River, Ariz. (See Bill Williams River and tributaries.) Big Sandy River, Ky., W. Va., and Va	June 15, 1907	Unfavorable				Unfavorable	. Н . Н	222 *245	60 74			
to Warfield, on Tug Fork.	Oct 18 1892	Unfavorable	Feb. 24, 18/5 {	1, 922, 536	}ravolable	Unfavorable	_ H. Ex	66	43 52	_	1875 1893 1889	756 2647 1990
Mouth to Chesapeake & Onlo Mr. Druge Mouth to Pikeville, on Levisa Fork, and to mouth of Pond Creek, on Tug Fork.			Jan. 10, 1889 Apr. 27, 1898 Jan. 10, 1900 \ Nov. 26, 1900 \			Favorabledo			55 56 56	2 1 2	1898 1900	2159 3400 2750
Levisa Fork: Virginia State line to Dismal Creek Dismal Creek to Pikeville (Piketon)			Nov. 25, 1887 Jan. 6, 1876	18, 000	do		H. Ex	88 91	50 44	1		1795 11, 140
To Grundy, Va				93, 000	Favorable	Unfavorable Favorable do	S. Ex H. Ex H. Ex.	30 29 25 1159	48 51 52 63	1 2 1 2	1884 1891 1892	1755 2476 2101
I MB SUR FEARS I OLYSTELLE .	Nov. 14, 1931	do	Apr. 24, 1946	82, 300, 000		Favorable Unfavorable	H	*264	80	1		
For flood control on Tug Fork at Williamson,			May 20, 1959 June 30, 1965	2 601 000	1	Favorable	н .	7184	86 89 85	1 1 2		
W. Va. Big Sandy River, Tenn	Oct. 18, 1905	Unfavorable				Unfavorabledo	H H	153 217	59 60	1		
Big Satilla River, Ga. (See Satilla River.) Big Sioux and Little Sioux Rivers, Iowa and S.	Sept. 18, 1929	do				do	н	189	72	1		

Big Sioux River, S. Dak. and Iowa (see also Sioux River). Big Sioux River and tributaries, Iowa and S Dak. Sioux City, Iowa, and North Sioux City, S. Big Sioux River at Sioux Falls S. Dak.			reb. Mar	7, 1964 8 1069	6, 400, 000	Favorable	do		133 100	61 79 84 88 90	2 2 1 2	
Big Sioux River at Sioux Falls, S. Dak Big Slough. (See St. Francis River, Mo. and Ark.)	•		June	1, 1962			Unfavorable	a)		•••		
flood control	Dec. 8, 1949						_	(/				
Big Stone Lake and Lake Traverse, Minn. and S. Dak. (see also Red River of the North and			0-4	00 1004			de	(4)				
					409, 000	Unfavorable.		H. Ex	71	40	2 1885	
tributaries, and Mississippi River reservoirs, and Boise de Sioux River).	Jan. 16, 1895	Favorable	{Nov. Apr.	15, 1897 26, 1900	350, 000		ilafavorable	44 6-	t 256	53 55	3 1895 2 1898	2208
			A	11 1000	357, 957	1		H	- 675	56	1 1900	2833
			_	11, 1903	435, 266 1 176 072	}	Unfavorable	H	- *539	58	2 1904	2260
Big Stone Lake and Whetstone River, Minn.	Mar. 26, 1917	Unfavorable_					4.	••			2 1307	2200
and S. Dak.			May :	18, 1962	3, 885, 000		Favorable	Ħ	- 1 99 - 579	65	1	
Big Sunflower River, Miss. (see also Yazoo River, Miss., and tributaries).			Jan.	2. 1879	66 000	Consent.		- "	- 5/9	87	2	
and cibutaites).					00,000	LAAOLADIG	Unfavorable	S. Ex	- 42	45	3 1879	982
		Favorabledo			73,000 .		havorahla .	u		54	1 1896	1638
			Aug 3	20, 1908 22 1911	600, 000	Favorable	Unfavorable	. н	- 667 - 1251	59 60	1	
	May 12, 1926	1 		, 1311	000,000	uv		H Com	•	60	2	
01-0 0 -	June 23 1931	Unfavorable					Unfavorable	- Н	- 467	69	ī	
Monterey County Colif	Nov. 16, 1956							• (7				
Big Sur River (Sur River) and tributaries, Monterey County, Calif. ig Tarkio River, Little Tarkio and Squaw Creeks, Mo. ig Thoroughfare River, Md. (See Twitch Cove	Oct. 19, 1956						Unfavorable	- (¹)				
wie Fuell And Select Sound to Chesapeake Bay												
g Thoroughfare and Tylers River, Md., chan- nel. g Timber Creek, N.J.			Cont	4 1041								
F Timher Creek N I			sept.	4, 1941	·- -		do	(1)				
g Timber Creek, N.J.	June 13, 1923	Favorable	June 🧐	9, 1927	131,000	Favorable		`				
les Creek Do (D. D.)			May 1	E 1000	64, 000		Favorable	·{H	*217	70	1	
les Creek, Pa. (See Delaware River, vicinity of.)			may 1	0, 1933	38, 500 _	·		. H. Com	*15	73	1	
lings, Mont. (See Yellowstone River and tributaries, Wyo., Mont., and N. Dak., flood control.)											•	
I Williams River, Ariz., and tributaries, flood openitors.	Apr. 13, 1939 _	do	_ Apr. 11	, 1944	3, 202, 000		Favorable					
					-,,		L4AOL9016	H	*625	78	2	
Report not published.												

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	5 P	-uaminotions		Surveys				Where	publish	ed		
	Preliminary	examinations		Curroy		Recommen-	Congre	ssional do	cuments		Ann repor Chie Engin	t of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber		Ses- sion	Year	Page
Silovi Ray and Harhor, Miss, (see also Back Bay			Feb. 16, 1882	\$35,000 55,000	Unfavorable		. S. Ex	131	47	1	1882	1322
and Ship Island, and Ship Island to Biloxi).	0-4 21 1007	Favorable	Oct 1, 1908	85, 800 175, 340	}do	_ Unfavorable	_ H	*1088	60	2		
Biloxi Harbor, Miss		Unfavorable		350, 620 82, 000	Favorable	Favorable	- H	. *754	69			
Short Harbor, misser-			ADT. 20. 1930	20, 000	Favorable	_ Favorable	П	*256	75 81	3 1		-
		Favorable	Feb. 28, 1949 (2) Apr. 14, 1959 June 3, 1966			do			86 89	2 2		
Biloxi, Miss. (See Back Bay of Biloxi, Miss.) Bingen, Wash. (See Columbia River, between Vancouver, Wash., and The Dalles, Oreg.) Birch Creek, N.Y., flood control Birch Creek, Oreg., tributary of Umatilla River,				34, 000	Favorable	Unfavorable Favorable	(¹) S	*89	77	1		
nood control. Birmingham. (See Valley Creek, Ala.) Birmingham. Canal, Ala. (See Black Warrior River and Fivemile Creek, Canal.) Birgio Croek, Wash			Jan. 31, 1897 { Apr. 9, 1900								1895 1897	1566
Biscayne Bay, Fla. (see also Miami Harbor; and Hurricane studies).	Feb. 18, 189	5 Favorable	Jan. 31, 1097 (Anr. 9 1900	845, 000 1, 493, 743	Unfavorable	Favorable	H	662	56	ī	1900	1897
	Sent 22, 1916)do	Oct. 7, 1911 {	390, 000 1, 417, 000	Favorable		Н	*554	02	-		
	Jan. 27, 1913 Mar. 20, 1918	Favorable	Apr. 9, 1900 Oct. 7, 1911 {	-,		Unfavorable	H .Com H	*1588	65	3	3	
Bismarck, N. Dak. (See Missouri River.) Bissell Cove R.! Bissels Cove, R.!	Nov. 10, 1882	2 Unfavorable	Nov 27, 1968		Unfavorable_	do	(¹) S. Ex	30	48	1	1884	663

Bisteneau Lake, La. (see also Loggy Bayou) Bixby Slough and Laguna Dominguez, Calif. (See Los Angeles and Long Beach Harbors, Calif.)	Jan. 10, 188 Dec. 14, 191 May 12, 192	3do 7do 6 (3)			Unfavorable (3)	S. Ex H	30 1, 007 467	48 65 69	1 1884 1 21	
Black and Cypress Bayous, Ark, and La. (See Bayou Bodcau Reservoir, Bayou Bodcau etc., Ark, and La.) Black and Ouachita Rivers, Ark, and La. Black Bayou, La. (see also Calcasieu Lake to Sabine Lake, waterway, and Mississippi River to Berwick Bay, etc., and Terrebonne Bayou etc.). Black Creek S.C.	Sept. 19, 188	7 Unfavorable	Feb. 2,1881 Aug. 17,1881	47, 520 Favorable	Unfavorable	. S. Ex S. Ex	57 57	86 46 46 50	2	288 289 490
Black Creek, tributary of Apalachicola River, Fla-			June 1,1962		do	(1)				
Blackfish Bayou, Ark	Apr. 3, 190	Favorable	May 17, 1909	4 500 Favorable	do	. (¹) H	73	61		
Black Creek, S.C. Black Creek, tributary of Apalachicola River, Fla- Blackflost Bayou, Ark Blackfoot Dam and Reservoir, Blackfoot River, Idaho. Black John Slough, Calif	may 12, 191:		July 23, 1962	829, 000	Favorable	Н	*60 *568	64 87	ii	
Black John Slough, Calif_ Black Lake Harbor, Holland, Mich. (See Holland Harbor.)	Oct. 6, 1916	6 Unfavorable		••••••	Unfavorable	Н	1885	64	2	-
Black Lake, La Black Lake, Mich. (See Holland Harbor and Black Lake)	Sept. 19, 1887	7do			do	H. Ex	58	50	1 1887 14	490
Black Rascal Creek, Calif. (See Merced County										
Black River, Ark., flood control Black River, Ark. and Mo. (see also Buffalo Fork of White River, and Little Red River and Washite River	Nov. 5, 1929)do	Aug. 1, 1837	16, 800	do	(¹) S	132	25	2	
Washita River). And waterway to Mississippi at Cape Girardeau.										
Flood control				180, 000 to 6, 884, 000 Unfavorable						
Near Buttermilk Bank Pocahontas to mouth				50, 968do	do .	н	*20	63	1	-
Poplarbluff to Pocahontas		 	- Dec. 20, 1879 - Mar. 26, 1872	80, 000 Favorable 101, 561		S. Ex	35	46 42		374 328 378
Black River Harbor, Ohio Black River, La. (see also Quachita River)	Oct 6 1002	· · · · · · · · · · · · · · · · · · ·	_ Apr. 3, 1970 _ Sept. 30, 1957	33, 881	Favorable	H S. Ex	*361	91 35	1	
Catahoula and Concordia Parishes, La., flood control.	NOV. 13, 1942	do			Unfavorable	(1)	JU	48	1 1884 13	163
 Report not published. \$2,500 increased annual cost for maintenance. Abandonment of project recommended. 				4 Annually. 5 Plus non-Federal cost of						

⁴ Annually. 5 Plus non-Federal cost of \$259,300.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed	,	
						Recommen-	Congres	sional do	cuments		Ann repor Chie Engin	rt of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
lack River, Mich. (see also Coasts of the Great Lakes, harbors of refuge for light-draft			Jan. 9, 1933 Apr. 21, 1943	\$86, 000		_ Unfavorable	H. Com	54	72	2		
vessels). At Little Girls Point (Ohmans Creek), Gogebic County. lack River, Lake Superior, Mich. (Gogebic	Feb. 11, 1936	Unfavorable				do	. (1)			- 		
County). lack River, Alcona County, Michlack River, Sanilac and St. Clair Counties,	Nov. 3, 1930 June 30, 1913	Unfavorable				do	(i)	*234	63	<u>1</u> -		
Mich. (see also Port Huron Harbor). At mouth			,	134, 244 224, 244 69, 300	}Favorable						1871	{ 17 { 18
At Port Huron	Aug. 2, 1915 Dec. 15 1888	(2)	May 9, 1889		Favorable	Eavorable	_ н	*436	04		1889	229
			Mar. 30, 1951			do Unfavorable	_ (1)		71 24			
lack River, N.Y. (see also Moose and Black Rivers, N.Y.).	July 15, 1829 May 12 1926	Favorable	July 30, 1889	579, 600	Unfavorable	_ Unfavorable _ (2)	- H	467	69	<u>ī</u>	1889	242
lack River, N.Y. (see also Moose and Black Rivers, N.Y.). Lyons Fall to Carthage	Dec. 15, 1896 Jan. 27, 1883	Unfavorable	_ Apr. 16, 1951	10.000					54 48	1	1897 1884 1885	330 106 114
ack River, Ohio (Lorain Harbor) (see also Lorain Harbor).	Oct. 24, 1884	Favorable	Nov. 26, 1827	14, 465								
	Apr. 18, 1918	Unfavorable	Nov. 1, 1897 {	695, 500	Favorable	} 	_ H _ H. Com	131 *1200 1	55 65 66	2 2 1	1898	27

Black River, S.C	. May	20, 190	9do	:-: -	-1:-::::-			do	H	341	61	2
Kingstree to mouth	. Jan.	26, 188	1do	July	21, 1960	25 000	Fauncable	do	(1) H. Ex	78	46	3 1881 1040
Up to KingstreeBlack River, Wash, (see also Duwamish River)	Apr. Apr. Nov	8, 191 5, 180	3do 0 do			*************		Uniavorable	H	286 238 *124 27	51 58 63 51	2 1891 1435 2 1094 1570 1 2 1891 3257
Black River and Renton Harbor, Wash Black River, Wis	. Sept. Mav	. 20, 193 27, 193	l	Dac	11 1026	95 000	Favorable	dodo	H ()	944	65 75	2
Black Rock Harbor, Conn. (see also Bridgeport Harbor).				. Feb. June	15, 1827 9, 1831	6, 201 10, 900			н	*23 52	20	1
	Nov.	8, 188	2 Favorable		12, 1883 30, 1888 {	80, 000 157, 609	} Favorable	Favorable	S. Ex	*50	48	1 1884 666 1889 741
Black Rock Channel, N.Y. (see also Buffalo Harbor, River, and ship canal).	Oct. Feb	3, 189 25, 192	4do O Unfavorable			1, 025, 000) 	Favorable	H. Ex	46 •981	53 66	3 1895 856 3
And Tonawanda Harbor, N.Y	Sept. Aug.	. 18, 192 31, 193	3 Favorable ldo	. Jan.	25, 1924 30, 1933 17, 1935 (1.044,000		do	H	*289 *28	68 73	1
					7, 1940		do	Unfavorable	(1)		.	
Black Rock Harbor, N.Y. (see also Buffalo Harbor).	Dec.	30, 190	4do	Mar. Sent		270, 000 3, 473, 239	Favorable	Favorabledodododo	H H H. Com	*423 428 36	79 83 58 61	1 2 1904 3271 2
Blackstone River, Mass. and R.I. flood control (see also Scott's Brook, Mass.). Blackstone River, Providence, R.I., to Worcester,	Inly	14, 190 29, 193	7 Favorable	Apr. Feb.	11 1044	4 621 000		Favorable Unfavorable	u	*913 *624	59 78	1 (3)
Mass. Blackstone River Basin, lower Woonsocket, R.I. Black Vermillion River at Frankfort, Kans				_ Feb	3. 1958	4 2, 970, 000		Favorable	S	*87	85	2
Black Walnut Harbor, Md				Dag	22 1020	21,000	, Favorable	dododododo	H H. Ex	*409 *217 69	84 76 52	2 1893 1239
			3do		(46, 500	Unfavorable	do	н	*1508	63	3
	Apr.	28, 192	3 Favorable	Oct.	3, 1916		do	do	H Com (1)	7	64	2
1 Danort not muhlishad												

Report not published.
 Abandonment of project recommended.
 Report on cooperation by local interests.

⁴ Plus cash contribution, estimated at \$570,000, by local interests of 16.1 percent of the cost of work to be accomplished by the Federal Government.

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congres	sional do	cuments		Chie	nual ort of ef of neers
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Black Warrior River, Ala., and Five-mile Creek	Nov. 28 1896	Favorable				Favorable	. Н	*77	54	2	1897	1704
Canal.	1404. 20, 1000		(\$4 500 000)			*88	55	2	1899	1730
			Nov. 19, 1898	4, 000, 000	{Unfavorable	Unfavorable	. п и	*78	66	1	1033	1730
at the Control Warrior	Jan. 22, 19	17 Unfavorable				Ulliavuiable	. 11	70	00	•		
Black Warrior River, Ala. (see also Warrior River): Below Locust Fork Tuscaloosa to forks of Sipsey and Mulberry Daniels Creek to Mulberry and Locust Forks			Jan. 30, 1896	1 200 000	Eavorable		S Fx	75 42 *259 239	43 46 54 57	2 3 1	1875 1881 1896 1902	11, 16 1218 1461 1288
	June 7, 1909	Favorable	Sept. 6, 1910	292, 152	do	Favorable	-{H	*72	62	1		
Mulberry Fork, above Sanders Shoals To Five-mile Creek Waterway						Unfavorable	. (¹)		73			
Black Warrior, Warrior, and Tombiguee Rivers,				- '					74	-		
Ala. Lock and dam replacement Blackwater Bay and River, Fla.	Mor 24 1022	Unfavorable	_ Mar. 26, 1935	-,,		Unfavorable	(1)	26				· ·
Blackwater Bay and River, Fla Blackwater Bay and River and East Bay, Fla	June 27, 1902	Unfavorable	Aug. 27, 1001	20, 000		Unfavorable	_ S. Ex . H	11 1 9 3	47 58	2	1882 1904	1309 1792
Blackwater Creek or River, Va. (See Chowan River, N.C., and Blackwater Creek (River), Va.)	Aug. 3, 1905 May 13, 1915	Favorable Unfavorable	Jan. 17, 1972 _ Mar. 3, 1875	14, 850 8, 000	Untavorable	do _ Favorable _ Unfavorable _ do	. H. Ex . H	60 177 179	45 59 63		1875	II, 161
•	Apr. 27, 1931	cb					· (')					
Bladensburg. (See Anacostia River Basin, D.C. and Md.) Blaine Harbor, Wash	Apr. 11, 1907	Favorable				do	- H	69	60	2		
	Feb. 8, 1936	Unfavorable	May 4, 1953			do Favorable	- (')		83	2		

	•	7	

Blakely Mountain Dam. (See Ouachita River, Ark., and La.) Blanchard River, Ohio. (See Auglaize, Blanchard and Ottawa Rivers, Ohio.) Blanchard River, Ohio and tributaries. (See Auglaize, Blanchard and Ottawa Rivers.) Blewetts Falls, N.C. (See Great Pee Dee River.)																
Blind Brook and tributaries, N.Y., flood control				. May	6,	1959	1, 060,	000		do	. Н	*180	86	1		
Blind Pass, Fla. (See Beach Erosion studies.) Blind Pass, Pinellas County, Fla. (See Johns, Blind and Passa-Grilla Passas Fla.)																
Blinkhorn Creek, Nansemond County, Va				June	19, 1	1964			Unfavorable	do	(1)					-
Block Island, R.I., harbors at (see also Great Salt Pond and Point Judith Pond).				. Sept.	. 10,	1867										
Salt Pond and Point Judith Pond).				Nov.	1,]	1867	1, 445, (900					::		1868	788
				Jan.	15, 1	1868	1, 500, 0	W			H. Ex	81	40	2	1868	785
				Mar.	6, 1	1868	553, 7	98	}		S. Mis	81	40	2	1877	201
				Mar.			8, (000	Favorable						*1880	390
				Dec.			19, (000	do		. S. Ex	26	47		1882	562
				Dec.			46, 1	89	do		S	*27	48		1885	610
				May			5, 0	100			S. Ex		50		*1888	506
	Cont	26 1007	Favorable	Dec.			83,3	100	Favorable	Favorable	M	*83 *828	54 60	į	1896	673
	May.	12 1926	(3)	Jan.	10,	1300	132, (,00		. (3)	П	467	69	1	 .	
	ivay	12, 1320	(9				202.0			- (%	п	40/	03	1		
	•		Favorable				458, 0	00	Unfavorable	. Unfavorable						
Harbor of refuge Block Island, Inner Harbor, R.I				Anr	1 1	952	100, 0	•••	,	do	(1)					
Block Island, Inner Harbor, R.I.	Jan.	14. 1936	Unfavorable	July	30, 1	1936			do	do	(1)					
, , , , , , , , , , , , , , , , , , , ,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Dec.	11. 1	940	16.0	00	Favorable	do Favorable	H	330	77	1		
Block Island Sound, Conn. (See Race, between Block Island Sound and Long Island, Conn., removing Valient Rock.) Blood River, La. (See Tickfaw River.)																
Bloomfield Creek, Staten Island, N.Y	July:	24, 1923	do							Unfavorable	(1).					
Blossom Cove. (See Shrewsbury River, N.J.) Blue Buck Bar and Point, Tex. (See Sabine River and Pass.)	,	- ,								· · · - · · · · · · · · · · · · · ·	(,					

¹ Report not published.
2 Via Valley River, Bessemer and Birmingham, Ala.

³ Elimination of dredging outer harbor, west of entrance channel.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

[*Indicates that maps are printed with report]

	Preliminar	examinations		Surveys				Where	e publish	ed		
						Recommen-	Congre	essional do	cuments		Ann repor Chie Engin	rt of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Blue Hill Harbor, Me	Nov. 17, 1890	Unfavorable				Unfavorable	H. Ex	. 19	51	2	1891	611
Dide illi Harbor, me	Oct. 18, 1946	Favorable	_ Apr. 1, 1952		Unfavorable	do	(1) (1)					
Bluehill Inner Harbor, Me	Aug 14 1911	do	NOV. 3, 1972		. Ulliavoi abie	do	H	420	62	2		
Blue Lake, Oreg. (See Columbia Slough.) Blue River Kansas City, Mo	. Aug. 14, 1311		1 20 1000	205 027 000	Favorable	Favorable	н	* 332	91	2		
Blue River Kansas City, Mo			_ 1006 30, 1969	*493, 027, 000	Favorable			. 002		-		
Bluewater floodway, (See Rio Grande and trib-												
Bluff Creek, Miss.			Feb. 16, 1889	1, 000	do	do		467		i	1889	1461
utaries, New Mexico.) Bluff Creek, Miss	May 12, 1926	(3) Favorable	Mar. 29, 1928	36, 000	Unfavorable	Unfavorable	(1)	. 10/		-		
Charleston, S.C., and St. Johns River, Fla.	24,102,		Fab. 17 1965		do	do	(1)					
Charleston, S.C., and St. Johns River, Fla. Boat Basin, at or near Beaufort, S.C. Boca Ciega Bay, Fla. (see also Clearwater Harbor and Boca Ciega Bay; and Johns Pass to Boca	Jan. 5, 188	/ Unfavorable	_ Feb. 17, 1305			do	H	58	50	l	1887	1259
and Boca Ciega Bay; and Johns Pass to Boca	Sept. 23, 191	2 Favorable	Feb. 21, 1913	10, 700	Favorable	Favorable	. н	_ *133	03	1		
Ciega Bay, Fla.). Channel from Clearwater Harbor to Tampa	Nov. 7, 1928	Unfavorable				Unfavorable	. (1)					
Bay, Fla. Boca Ciega Pass, Fla. (See Beach Erosion study												
			F-L 14 1077	r 6 614 200	n Hofavorable		H Fx	22	45	3	1877	105
Boca Grande, Fla. (See Charlotte Harbor.) Bodega Bay (harbor of refuge), Calif	A 01 100	1 Unformedia	Feb. 14, 10//	0, 014, 300	O. Olliavoianie.	Unfavorable	(1)					
Bodega Bay (harbor or reruge), Calif	Mpr. 21, 193	Favorable	Oct. 4, 1937						//	3		
			Nov. 6, 1964	⁵853, 000	· do	do	н	*106	89 78	1 2		
Boeuf and Tensas Rivers and Bayou Macon, Ark and La. flood control.			Dec. 15, 194 Apr. 8, 194	6 4 930,000)	00	- (¹)					
Ark. and La. flood control. Boeuf and Tensas Rivers and Bayou Macon, Ark.			May 24, 1950	§ 4 1, 212, 000)	do	. H	*108	85	1		

and La.

Boeuf Bayou, La. (see also Cocodrie, etc., and Rapids, Boeuf, etc.). Boeuf River, La. (see also Bayou La Fourche, La.) Boeuf River, La. and Ark.				Dec.			Unfavorable	(3)_	н	467	61 65 69 46 48	2 1 3		1423 1545
Bogalusa, La. (See Pearl River.) Boggs Bay (or Bogues Bay), Va. (See Franklin City to Cape Charles Waterway.)	Feb.	21, 1895	Unfavorable	July	1, 1891	12.000								
Boggy Creek, Okla. (See Boswell Dam and Reservoir, Okla.) Boggy River, Ohio	Feb.	9, 1926	do	••••	•••••			do	(1)					
Covington.) Bogue Inlet and Swansboro, Hbr., North Carolin Bogue Inlet, N.C. (see also Hurricane studies). Bogue Phalia, Miss. (See Phalia Bogue; and Yazoo River, lower tributaries, Mississippi.)	Aug.	17, 1896	do	Mar. Sept	23, 1965 29, 1940		Unfavorable	do do	(1) H(1)	316	54	2 i	897	1418
Bogues Bay, Va. (See Boggs Bay.) Bogue Sound, N.C. (see also Beaufort Harbor to New River, N.C., inland waterway; also New River to Swansboro, N.C., inland waterway). Bohicket Creek, S.C. (See Church and Bohicket Creeks, etc.)	A pr.	19, 1909	Favorable	_ Jan.	20, 1900 {	27, 000 19, 000	Favorable	Favorable	-}H	*649	61	2	•	
Bois Blanc Island (Pointe Aux Pins), Mich Bois de Sioux River, Minn. (see also Big Stone Lake etc.)	Dec.	4. 1907	Unfavorable	Mar.	5, 1963		Unfavorable	Unfavorable	(1)	403	 60	- <u>;</u>		
Boise River and tributaries, vicinity of Boise,				Mar.	10, 1966	1, 576, 000	Favorable	Favorable	. н	*486	89			
Idaho. Boise River Idaho (multiple purpose) (see also Columbia River and tributaries).											76	3		
Dry Creek	Sept. Dec.	8, 1955 21, 1939	Unfavorable			•••••		Unfavorable	(i)					
Bolinas Channel, Calif. Bolinas Harbor, Calif., channel to the sea Bolivar Peninsula in vicinity of Rollover Fish Pass, Tex. (See Beach Erosion studies.)														
Pass, lex. (See Beach Erosion studies.) Bonfouca Bayou, La	Jan. June	22, 1895 9, 1923	Favorabledo.	May	7, 1924	22, 000	Favorable	Favorabledodo.	H. Ex	273 •474	53 68	3 1	895	1783
Bonita Channel, Calif. (See San Francisco				June	22, 1962			Untavorable	(1)					

Harbor, entrance channels.)
Bonners Ferry, Idaho. (See Kootenai River, Idaho.)

Report not published.
 Plus non-Federal costs of \$11,242,000.
 Abandonment of project recommended.
 Mississippi River Commission report.

 ⁸ Plus cash contribution, estimated at \$523,000, by local interests of 36 percent for construction of mole, and 50 percent for construction of channel.
 ⁶ Anderson Ranch Reservoir, Arrowrock Dam.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

					7.00		Recommen-	Congr	essional do	cuments	;	repo Chie	nual ort of ef of neers
Locality	Date of report		Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Bonneville Dam. (See Columbia River, Wash, and Oreg., Willamette River to Bonneville Dam.) Bon Secours Bay, Ala. (See Pensacola Bay, Fla., to Bon Secours, Canal; and St. George Sound, Fla., to Rio Grande Waterway, Pensacola Bay to Mobile Bay.) To Guif by way of Oyster Bay Bon Secour River, Ala Bonum Creek, Westmoreland County, Va	July 26, Aug. 3,	, 1948 , 1955		Sept. 4, 1933 June 10, 1957 Dec. 6, 1966 Feb. 17, 1960		Unfavorable Unfavorable	do do do do	(1) (1) (1) (1)					
Boonville, Mo. (See Missouri River.) Boothbay Harbor, Maine	Nov. 22, Oct. 3,	. 1899	do	Jan. 10, 1911 Aug. 10, 1962		. Unidvolable	Favorable	ii	*82	55 56 62	1	1897 1900	
cinity of Booth Point, Fla.) Boquet River, N.Y										48 51 71		1884 1891	
canal and Mobile Bay to New Orleans.) Boston Canal, La Boston Canal, Vermilion Parish, La Boston Harbor, Mass (see also Hull and Charles River; and Chelsea River to creek; and	1101 /	/ FXX.5	Faverame	OCI. 11. 1903	(²) 103, 000	Favorable	dodo do Favorable	. (1). . (1). . S. Ex . H.	74 *225	48 76	1	1884	588

Ųτ

Markin Diana da														
Mystic River; and South Bay; and Winthrop Harbor).	p Feb.	. 12, 1942	2 Unfavorable			· • • • • • • • • • • • • • • • • • • •		Unfavorable	- (¹)					
Allerton Point	May	9 1005												
Allerton Point Approach to Navy drydock Broad Sound Channel	Aug	25 1934	do	Mai	25 1925	129 700	Fauscable	do	- H	140	59	1		
Broad Sound Channel	June	16, 1900	do	Nov	28 1900	10 612 710	ravorable	ravorable	_ H. Com	*29	74	1		
		,		1101	. 20, 1300	10, 012, 710	·ao		. п	-119 (3)	56	2	1901	1096
				Dec	. 6, 1900	7, 994, 248		rayolapio		(7			1202	*//1
Channel on Pleasure Pay side of Fast	Oct.	22, 1925	Unfavorable					Unfavorable	(1)				- 	
Channel on Pleasure Bay side of Fort Independence.	way	20, 1942	ao				•	do	. (¹)					
Chalana Divor	_													
East Boston Channel	Oot.	27 1002	4-					ao	(!) (H. Ex	55	52		1893	
East Doston Onamici	_ UCI.	27, 1092		UCT.	15, 1894	60, 000			H Fx	*58	52 53			793 649
Fort Point Channel	Oct.	4 1884	Favorable	lan	27 1995	100.000	Favorable		(S. Ex	74	48		1884	488
To Massachusetts Ave	Oat	10 1020	4-	Jan.		100, 000	ravolable		(H. Ex	206	48	Ž	1885	543
40-100t main shin channel				Ane	20 1042			Unfavorable	(1)					
navy varu to President Roads				Nov	10 1007	1 644 552	5	Favorable	н	*733	79	2.	<u>-</u>	
main snip channel					do	1,557,621	Favorable		H	*133	55	2	1898	886
Main ship channel and anchorage area	Jian	21 1021	Favorable	lan.	12 1022 (4, 779, 000	, do		(
Mystic South Channel	- { > u !!		1 44014016	Jan.	12, 1932	4, 800, 000		- Favorable	}H	*244	72	1.		
Mystic South Channel President Roads	- Aug.	13, 195/						Unfavorable	(i)			-		
President Roads to Broad Sound	. гев.	15, 1545		July	1, 1946	1, 802, 000	Faurable	Favorable	H	*244	80	1.		
President Ponde to the see				1404	19, 109/	1 545 000	ravorable	Favorable	,H	*133	55	2	1898	886
President Roads to the sea	. Dec.	11, 1912	Favorable	Apr.	4, 1914	3, 845, 000	do	Favorable Unfavorable Favorable	}H	*931	63	2.		
Reserved channel	_ May	13, 1953	do	_ Oct.	5, 1955 `	675, 000		- Favorable	H	*349	84	2		
						(4)		do	H	472	78	2		
Seaplane channel and anchorage basins Seawall at Winthrop Beach	Tuly	21 1011	Unformable	_ May	31, 1939	2, 300, 000	Favorable	do	H	*362	76	1		
ocean at minimop beach	. July Inly	10 1933	do do					Unfavorable do	H	258	62	2		
Shirley Gut	May	14, 1934	do					do	χ	•			·	
	Sept.	9, 1940	do					do	8					-
Shirley Gut, Mass., channel between Point				_ Dec	14, 1966		Unfavorable	do	8					
Vicinity of Winthron breakwater	A	21 1027	٠. د											
Vicinity of Winthrop , breakwater Winthrop Head Winthrop to East Boston	May	0 1005	do					do	(1)					
Winthrop to East Boston	Feb.	24 1936	do					do	H	144	59	1 _		
Boston Harbor and Narragansett Bay Canal	Feb.	3. 1825	Favorable			•			(1)			2		
Boston to Beaufort Inlet, waterway (see also									3	32	19	۷.		
Norfolk Harbor and New Jersey Intracoastal Waterway):														
Boston to Narragansett Bay														
Narragansett Bay to Long Island Sound				_ Oct.	4, 1911	40, 047, 000	Unfavorable	_ Unfavorable	H		62	2 _		
					10			do		*391	62			
1 Report not published. 2 No estimate.						4 Recomm	ends abandonme	nt of seaplane chanr	el in location a	uthorized.	with prov	ision	for alte	rnate
² No estimate. ³ Map only.						location in	tne tuture. (Inis	recommendation a	nd all previou	s authoritie	s revoke	d by	Public	Law
- map omy.						No. 420, 78	th Cong., 2d sess.	., approved Sept. 7,	1944.)			,		

⁴ Recommends abandonment of seaplane channel in location authorized, with provision for alternate location in the future. (This recommendation and all previous authorities revoked by Public Law No. 420, 78th Cong., 2d sess., approved Sept. 7, 1944.)

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

[*Indicates that maps are printed with report]

	Pre	liminary	examinations			Surveys				Wher	e publish	ed		
								Recommen-	Congre	ssional do	cuments	3		
Locality	Date o report		Recommen- dation	Date repor		Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
N. V. I. D. A. Dalamara Dimar				Oct	4, 1911	\$ 45, 000, 000	Favorable		Н	*391	62	2		
lew York Bay to Delaware River					14, 1912 2	18, 736, 230 45, 000, 000	Unfavorable Favorable	Favorable Unfavorable	}H	196	63	1		- -
				Nov.	30, 1920	40, 000, 000 to 86, 000, 000	Unfavorable	do:	H. Com	. 6	66	3		
				Apr.	23, 1930 18, 1933	89, 011, 000 173, 256, 000		do	H	*219	71 73	2		
Delaware River to Chesapeake Bay				Oct. Feb.	4, 1911 14, 1912	12 424 500	Favorable	Favorable	H H	*391 196 14	73 62 63 64 65 71 71 73 72	2		
	Mar. Dec.	11, 1915 14, 1918				4 3, 000, 000			H	. 1600	64 65	3	(3) (3)	
					13, 1930 do	15, 000	do	Favorable do	S	. *151	71 71	2		
Anchorage in Back Creek Delaware City Branch Ship canal	Dec.	13, 1930	Unfavorable	July Aug.	10, 1933 28, 1931	58, 000 67, 000 12, 500, 000			H	. 201	73 72 73	1 2		
Ship canal				Nov.	4, 1911	5, 401, 580 5, 400, 000	} Favorable	Favorable			62	2		
TOTOIN TO BOURIOUS STATES OF THE STATES OF T			Favorable	Dec.	6. 1921	5 500 000	do	do Indefinite Unfavorable	H. Com S	. *23	67 71	2 1		
Virginia Cut lock				June	3, 1928 20, 1922		do	Unfavorable Unfavorable	(1)	. (¹)				• • • • • • • • • • • • • • • • • • •

Oklahoma (Red River).

Boulder, Colo. (See South Platte River and tributaries, Colorado, Wyoming, and Ne-

braska.)
Bouquet River, N.Y. (See Boquet River.)
Bowie River, Miss. (See Leaf and Bowie Rivers)

Bowlers Harbor (wharf), Va. (See Rappahannock River, vicinity of.)												
Bowmans River to Cumberland, Md., for canal Boyce Landing, Red River, La. (See Red River.			_ Apr.	19, 1926							- 	
()												
Boyer River, I owa	Mar. 30, 1939	Favorable	Mar	20 1943	17 930		_ Favorable	ш	*05*	70		
Braddock Bay and Hamlin Beach State Park,	May 28, 1948			20, 1010	17, 650		infevorable?	Π	~234	/8	1	
Braddock Bay and Hamlin Beach State Park, N.Y. Braddock Bay, N.Y. (See Beach Fresion studies.)	•		June	3. 1968	\$ 500, 000	Favorable	Favorable	H)	+358	90		
Braddock Bay, N.Y. (See Beach Erosion studies.)				•	,				336	30	2	
Braden River, Manatee County, Fla Bradenton, F.a. (See Manatee River, etc.)	Nov. 4, 1919	Unfavorable					_ Unfavorable	(1)				
Bradford, Pa. (See Allegheny River (upper) in								•				
Bradfords Bay, Accomack County, Va	May 6, 1926	Favorable	Mar	30 1929	25:000	Eswarable	.4.	40				
			Oct.	3 1933	47,000	Infavorable	d0	X				
Brady Creek, Tex., tributary of Colorado River,			. June	21, 1939	825, 000	Favorable	do do - Favorable	¥/	*AA1	76		
nocu control.					,				771	70	1	
Brainerd, Minn. (See Mississippi River.)												
Braman Reservoir, Okla., flood control Brandywi: River, Del. (see also Christiana River and Wilmington Harbor)	Jan. 11, 1938	Untavorable				- <u>-</u>	_ Unfavorable	(1)				
River and Wilmington Harbor).	Dec. 12, 1882	ravorable	. Nov.	22, 1883	96, 525	Favorable		S. Ex	5 9	48	1 1884	879
Branford Harbor, Conn	Nov. 8 1882	·do			E 000	`						
,	0, 1002		Dec.	12, 1883 }	78 000	}do		S. Ex	*50	48	1 1884	679
	Sept. 12, 1900	do	Nov.	2. 1900	5 000	, do		ш	100	Ee	2 1001	1100
	May 17, 1907	Unfavorable		-,			Unfavorable	H	-80	60	7 1301	1100
	July 26, 1915	Favorable	Apr.	18, 1916	30, 000	Favorable	Unfavorabledodo	H	*1292	64	i	
	Dec. 27, 1930	do	·				do	(1)			•	
	mar. 30, 1936	Untavorable					do	(1)				
Bransons Cove, lower Machodoc River, Va			May	28, 1930 5 1047								
DIGEOR INGINE HAIDOL, LEX. (266 SIZO RISZOZ		•	Mar	12 1937	20, 000 585, 000	Fauncable	Favorabledo	H	*420 *32	80 75		
Santiago, etc.).			Apr.	17, 1939	127, 500	do	do	n. com	*335	75 76		
				15, 1940	635.000	do_	do	н	*347	77	i	
				28, 1949	93.050.000		dο	н	+102	81	i	
And Gulf Intracoastal Waterway at Port			June	1, 1960	4, 381, 000		do	H	*428	86	2	
					170, 000		do	H	*627	79	2	4
At or near Port Isabel	Aug 20 1913						Hadaman bla	~ `				
							_ unravorable	(+)				

Report not published.
 Supplemental report.
 Report of Secretary of War, relative to purchase of Chesapeake & Delaware Canal.
 Includes purchase prise of Chesapeake & Delaware Canal.
 For purchase of Dismal Swamp Canal.

Construction of salt water guard lock: includes local contribution of \$200,000.
 For Braddock Bay only.
 Plus cash contribution of \$500,000 by local interests of 50 percent of 1st cost of construction estimated at \$473,500 and \$26,500 for navigation facilities and recreational fishing features.
 Includes \$80,000 for small-boat basin.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congre	ssional do	cuments		Annu report Chief Engine	of of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
azos River, Tex. (see also Galveston Bay to Brazos River, canal; and Cellar Bayou; and			Apr. 1, 1854	\$44, 000		None	H. Ex	124 *34	33 85	1		-
Brazos River, canal; and Cedar Bayou; and Double Bayou; and Rio Grande to Mississippi River, waterway; and St. George Sound, etc.;			. Jan. 11,195/			None	9	34	03	•		
and Mill Creek): Aquilla Reservoir on Aquilla Creek, Tex Brazos River Channel & Dock Co.'s im-			Sept. 19, 1966 Feb. 18, 1897	2 19, 493, 000	Favorable	Favorable	S	*52 138	90 54	1 2	1897	1815
provements at mouth.			lune 19, 1962	3 31 200 000		Favorable	H	*506	87 68	2		
Freeport Harbor (see also mouth to Velasco).			May 15, 1928	1, 600, 000	do	do	H. Com	18	70	1		
From 8 miles above mouth to Gulf of Mexico. Jupiter Cut.	Capt 7 1010	Unfavorable	_ June 30, 18/9					280	62	2		
Mouth	Зерс. 7, 1310	Omavorabic	_ Julie 30, 10/3								1879	938
Model			Sept. 24, 1880	522, 890			u Ev	109	50	ī	1881 1888	1351 1292
			Sept. 6, 1887 - Feb. 2, 1899						55		1899	1976
			,	1, 465, 000) d-		u	652	56		1900	2426
			Apr. 18, 1900 {	375, 000	}		!!	+1007	00	1	1300	2420
	Feb. 6, 1908	Favorable		60, 000		Unfavorable	Н Н. Сот	*1087 27	60 61	2		
		Unfavorable		455 000		Favorable)	*1469	63	2		
Mouth to Freeport, Tex	Sept. 20, 1913		_ July 23, 1914 {	500, 000	Favorable		}⊓	1409	63	3		
Mouth to Velasco Harbor, Tex	Sept 20 1853	Unfavorable				Unfavorable	<u>u</u>	9	63			
	June 12, 1912	Favorable		226 500		omavorable		. 3	72	1		
			Apr. 11, 1932	79, 040			}H, Com	. *15		1		
			Jan. 8, 1934	18,000			H. Com	*29 *705	73 59	2		
Old Washington to Waco	July 11, 1905	do		2, 915, 000			H	. */US . *95	62	1		
	June 5, 1909	do	_ Dec. 23, 1910 _			(4)	H	298	66	i		

Repairs to jetties			. Nov. . Apr.	23, 1900 7, 1969	175, 000 5 3, 200, 000	Favorable	- Favorable	H	133 *192	56 91	2 190 1	1 2022
San Gabriel River Watershed To Galveston, waterway			_ Dec.	14. 1906	141, 528	Favorable	do	Н	*591 *640	87 59	2	
To Old Washington	Aug. 29, 1900	Favorable	_ Dec.	22, 1900 {	2, 450, 000	} do		н	283	56	2 190	2004
To Pass Cavallo, Tex. (See Rio Grande to Mississippi River, waterway, and St. George Sound, etc.) To Richmond				. (•							
	Dec. 7, 1032	uv	Feb.	14. 1895	10 000			H. EX	136	52	2 1893 1895	
To Rosenberg	Nov. 26, 1927	Unfavorable				·	_ Unfavorable	(1)				1000
To Waco (see also Old Washington to)	F-L 24 1001	11-faa	_ July	10, 1875	286, 484						187	929
	100. 24, 1001	Omatorabio								ЭZ	1	
	Aug. 29, 1900	Favorable	_ Jan.	30, 1901	3, 725, 000	Favorable		H	450	56	2 1901	
Waco To Richmond			Feh	15 1895	3, 000, 000	Unfavorable	_ Unfavorable				1000	1022
Brazos River, Tex., and tributaries; flood control.	Apr 20 1921	Unfavorable		, (4, 000, 000	Journalous	_ Omatorable				103.	1000
Diacos mitor, rox, and tributaries, mod control.	Aug. 20, 1931	do					Favorable	(γ)	101			4
COACHIIK FROM WARE			Anr.	19.1948/	* 15. 582. 000		00	н	*88	81	1	******
Oyster Čreek and Jones Creek Whitney Dam project, flood control, naviga-			. Aug.	9, 1949	122, 584, 000		do	Н	*535	81	2	
tion, power.	••••••		. May	4, 19397	10, 150, 000	Favorable	do	H	*390	76	1	
Brazos Sar, Jago Tex (See Brazos Santiago)												
Brazos Santiago Harbor, Tex. (see also St. George Sound to Rio Grande). Harbor and bar)		(Apr.	18, 1853	·							
George Sound to Rio Grande).			Jan.	23, 1856	300, 000			S. Fx	5	34	1	
nativot allu vat			- Apr.	29, 1877	//4, 630	Indofinito	_ Unfavorable				1871	544
			Jan.	6. 1881	740.272	Favorable					1888	1322 1478
	Dec. 11, 1894	Unfavorable					_ Unfavorable	H. Ex	140	53	3 1895	1830
	Oat 14 1000	Favorable	Mari	17 1010	2, 700, 000	l.,				2.		
	OCI. 14, 1505	ravorable	- MOA	17, 1910	4, 200, 000	Unfavorable	do	н	200	63	1	
	Nov. 17, 1915	do	. Oct.	12, 1918	66,000	Favorable	_ Favorable	н	*1710	65	2	
	Sept. 29, 1927	Unfavorable					Unfavorable	(1)				
			May	3, 1928 27, 1929	1, 600, 000	Favorable	_ Favorable	H. Com	*9	70	1	
			Aug. Ian	15. 1930	4 783 000	do	do	H. Com	*10 16	71 71	1	
			Mar.	14, 1932				H Com	10	72	1	
Off Belok Leeb of	0-1 10 1000		June	20, 1935	30, 800	Unfavorable	Unfavorabledo	(1)		, <u>.</u>		
Off Point Isabel	OCT. 19, 1899	do	Anr	10.1902	227 070	Faurable	do	H	60	56	1 1900	
To Riv Grande. (See St. George Sound to			. Apr.	13, 1002	327, 979	ravolable					1882	1477
Rio Grande.)												

Report not published.
 Net Federal cost after reimbursement by local interests of \$4,119,000.
 Plus non-Federal cost of \$7,403,000.
 Abandonment of project recommended.

Plus non-Federal cost of \$2,600,000.
 Estimated cost of modification of authorized project.
 Interim report.
 \$15,500,000, Belton Reservoir; \$82,000, Eastland, Tex.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary	examinations		Surveys	•			Where	publish	ed		
						Recommen-	Congres	sional doc	uments		repo	nual ort of ef of neers
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
Breton Bay (Leonardtown Harbor), Md			Jan. 19.1875 {	\$13,000	}Favorable		_ H. Ex	75	43	2	1875	11, 108
Rieton Bay (Feonaldrows Harbor), massissing			(22, 560)			209	56	1	1900	1743
	June 10, 1899	Favorable	,	36 480	(33	61		1903	1044
	Dag 7 1012	Unfavorable	Sept. 22, 1903	6, 000 3, 000	. qu	Favorable	Н	*127	63	í	1303	104-
	Dec. 7, 1312	Ulliavoiable	Aug. 6, 1934	4, 800	Unfavorable	Unfavorable	. (1)					
Brevard County, Fla., shores of. (See Beach			-									
Erosion studies.) Bridge Island, Mich. (See St. Marys River, south												
canal.) Bridgenort Harbor, Conn. (see also Black Rock			Sept. 26, 1838 Dec. 11, 1852	10 000								
Harbor and Johnsons Creek.)			Jan. 12, 1867	,								
			Jan. 23, 1869	72 000	_ Unfavorable							413
			Jan. 12, 1871	566, 922	}		_ H. Ex	60	41	-	1871	788
			July 1, 1874	126, 050								
			Julý 14, 1879 Oct. 28, 1895	90.000			н	*61	54	1	1896	803
			Aug. 23, 1898	307, 470	Favorable						1899	1173
			Jan. 20, 1899 {	110, 000 65, 000	}		. H	209	55	3	1899	1187
	No. 21 1000	Favorable	. (560,000		Favorable		275)	} 50	2		
	NOV. 21, 1300						H(*521)	,	2		
	Sept. 1, 1909	do	_ Feb. 11,1910	9 0, 000	do	Unfavorable		*751 *89	61 62	1		
•	Jan. 6, 1911	Unfavorable Favorable	Mar 19 1914	175. 300	Favorable	Favorable	_ H	*898	63	2		
	Jan. 31, 1928	do	- July 26, 1929 {	877, 000	do		-)u	281	71	2		
			, , , , , , , , , , , , ,	504, 000	Eavorable	Favorabledo	-)	*232	75	1		
	Feb. 26, 1936	do	Mar. 10, 1937 Apr. 9, 1940	529, 000	do	do	. H	*819	76	3		
			Apr. 26 1946	955 000		do	Н	*680	79 85	2		
			Oct. 19, 1956	2 2, 076, 000		do	. П	*136	65	1		

Bridges Brier Greek, Ga Mouth to Waynesboro Brigantine Beach and Inlet, N.J. (See Absecon Inlet and Atlantic City.) Bristol, Maine, (See New Harbor.)	,						Untavorable	. н	*407	49 59 64	1		
Bristol Harbor, R.I.	Dec. 1, 1925	5 do					do	. (1)					
Britton Day Md (Can Danta Da)			July	/. 196/	3 873 000	Favorable	Favorable				i		
Broad and Combahee Rivers, S.C. Broad Bay, Va. (see also Link Horn River, etc.) Broad Creek, Del. (See Broad Creek River.)			July Feb.	21, 1960 21, 1880			Unfavorable	(¹) S. Ex	104	46		1880	900
Broad Creek, Del. (See Broad Creek River.) Broad Creek, Md	Oct. 14 1890) Favorable	Jan.	9, 1882	60, 000 54, 000	Favorable	Favorable	. S. Ex	68	47	_		948
Annemessex River to Pocomoke Sound	luno 20 1021	Itafaussakis	Jan.	16, 1911	57, 200	Comavorable		. н	*269	62	2		
Broad Creek, N.C. (See Manteo, N.C., to Oregon	. Dec. 6, 1938	lavorable	May	11, 1939			Unfavorable Favorable						
Broad Creek (Gittings Creek), N.C. Broad Creek, Pamilico County, N.C.	Anr 17 1019	Unfavorable	Apr.	30, 1965		_ Unfavorable	Unfavorable	(1)					
Broad Creek, Pamlico County, N.C	Nov. 13, 1890	Favorable	reb. Mar	4, 1880 18 1891	60 000			C Er			-	-:::::	
	may 29, 1909	·ao	Nov.	20, 1909 6, 1940	11,020	Unfavorable	Favorable Unfavorable	. n	601	61	2.		
Broad Creek River, Sussex County, Del Broadkill Creek, Del. (see also Mispillion River and Broadkill Creek, waterway)			Sent	7, 1963		Unfavorable		· ;;;					
and Broadkill Creek, waterway).	June 6, 1894	Unfavorable Favorable do	Mar	20 1006	33, 330	Favorable	Unfavorable	. H. Ex	60 70	42 53 59	3	1872 1895	1151
Broadkill River, Del. (see also Chincoteague Bay to Delaware Bay and Delaware Bay, harbor of		Unfavorable	Oct.	24, 1929	60, 000 220, 000	do Unfavorable	Favorable	}H	*1109	63	2.		
neruge, and Kenoboth Bay to Delaware Bay,			•	7, 1966		do	do	()					·
Broadkill River and waterway from Indian River Inlet to Rehoboth Bay, Del.							Favorable			77	1.		-
Broad River, N.C. and S.C. (see also Congaree and Santie Rivers).	Nov 10 1999	Untavorable			90, 000	Indefinite		S. Ex	166 30	46 48	2	1880 1884	1010 1058
Broad Sound, Mass. (See Boston Harbor.) Broadwater Creek, Md	Dec. 24, 1935	do					Unfavorable					1889	1203
1 Report not published.	May 23, 1939	Favorable	Oct.	22, 1941	60, 000		Favorable	Ŋ	622	77	*2		
² Plas cash contribution, estimated at \$465,000							stimated at \$491,00						

^a Plus cash contribution, estimated at \$491,000, by local interests.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminary examinations					Surveys				Where	e publish	ed		
								Recommen-	Congre	ssional do	cuments	1	Ann repor Chie Engin	t of f of
Locality	Date of report		Recommen- dation	Date o		Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Bronx Kills, N.Y. (See Harlem River.) Bronx Kills and Harlem River, N.Y Bronx River, N.Y Bronx River and tributaries, New York	Mar. 10	, 1938 , 1890	Favorable	Dec. Jan. Aug.	8, 1938 14, 1881 25, 1891	\$136,275 85,985	Unfavorable	Unfavorable Favorable	(i) H. Ex	54	46	3	1881 1891	665 949
Brooklin, Maine. (See Center Harbor, Brooklin.) Brooklyn, Calif. (See Oakland Harbor.) Brooklyn, III. (See Mississippi River.)	Apr. 26	, 1911	do	_ Feb. _ Dec.	5, 1912 1, 1944	930,000	0	Unfavorable	(1)					
Brookport, III. (See Ohio River) Broward County and Hillsboro Inlet. (See Beach Erosion studies.) Broward County, Fla., intracoastal waterway through.	Feb. 9	, 1940	Favorable	_ Dec.	14, 1943			do	_ (1)					
Broward County, Fla., intracoastal waterway through. Broward County, vicinity of Hollywood, Fla Brown Bay, Gloucester County, Va. Brown Fort, Tex. (See Rio Grande at Fort Brown.) Browns Creek, Fla. (See St. Johns River, Fla., Jacksonville to the Ocean.)											51		1890	66
Jacksonville to the Ocean.) Browns Creek, Sayville, N.Y	Dec. 10), 1915			·			Favorable			51 64	1	1890	67:
Tex.) Brule Harbor, Wis	Jan. 26 Oct. 30 July 29	6, 1912 0, 1912 0, 1932	Favorable Unfavorable	Aug.	2, 1912	16 ,500	Unfavorable	Unfavorable do	H H	*1129 - *241 - *74	62 63 73	1		

Brule River, Wis Brunswick and St. Simons Island, Ga. (See Hurricane studies.) Brunswick Canal Maine	Sept.	1, 1931	do	·····		•		do	н	*227	72	1 .		····••
Brunswick Harbor, Ga		·		. Feb.	18, 1828				H	173	20	1		
Brunswick Canal, Maine Brunswick Harbor, Ga				. Apr.	29, 1876	109, 500	Indefinite	***************************************	S. Ex	63	44	i.	1876	ARE
	Inte	7 1012	Favorable	Dec.	29, 1882					51	47			
	July	7, 1313	ravorable	. mar.	8, 1915	561,000	Favorable		H	393	64	ī		
				Doc	9. 1920	• 310. 000		Favorable	(
					25, 1930	1,000,000	Unfavorable	_ Unfavorable	(3) (1)					
				0-1	C 1040	1, 210, 000	ravorable	Favorable	S	*132	71	2	(³) .	
Inner bar	Mar.	27, 1899	do	Oct	14 1990	1, 332, 000	Favorable	do	H	*110	81	1.		
· •	June	3, 1905	do	Dec.	4, 1905	496,650	do do	_ Favorable	H	40	56	ļ	1900	1962
Outes Des	Oct.	12, 1907				430,030	uu	_ ravorable	n	*407	59 60	! -		
Outer Bar	Oct.	8, 1890	Favorable	(Dec.	4, 1900)	175, 860	Favorable		D/	*326 179)	řč	ĭ	1901 -	1663
East Diver shapped				Dec.	27, 1900 \$				3	255 (_		
Last river channel	Mar.	2, 1928	Unfavorable					Unfavorable	m '	333)				
Turtle River to Crienia Island	Sept.	9, 1927	do					do_	(1)					
Brunswick Harbor Maine (see also Androscoggin	Apr.	24, 1931	ao					do	(1).					
Jekyl and St. Simon Islands. Turfle River to Crispin Island. Brunswick Harbor, Maine (see also Androscoggin . River).				Dec.	13, 1881	34, 000			Š. Ex	45	47	ī	1882	527
DIGITATION OF THE PROPERTY OF										•••	•••	•		021
Brunswick Harbor, Mo. (See Missouri River)														
Brunswick River, N.C. (see also Cane Fear				lan	20 1001	1 000	F		_					
						1,000	ravorable	Favorable	S	130	56	2	1901	1569
Brush Creek, Princeton, W. Va	Nov.	8. 1949	Favorable	Mar	20 1956	4 917 000		4.	_					
Buck Creek and tributaries, S.C.				Nov.	14, 1968			do			84			
Buck Creek and tributaries, SaC. Buckhannon River, Buckhannon, W. Va. Buckhannon River and Middle Fork River W.				Mar.	31, 1961	1 206 000	Ulliavolable	Unfavorable Favorabledo	(1)	:::	<u></u>			
Pastinginon Mitci and Middle LOIK Midel, M.	rev.	ö. 1338	ravorable	()ct	2A 1QAN	1, 300, 000	do	- ravulable	<u>}</u>	*43	87	1.		
Va., flood control.						-,,			(1)					
Va., flood control. Buckhannon River, W. Va. Buckhannon and Tygarts Valley Rivers, W. Va. Buckingham Landing, Beaufort County, Hilton Head Island, S.C.	May 1	2, 1926	(5)			•••••		(b)	н	467	co			
Ruckingham Landing Resulted County Wilton	-			Jan.	6, 1883	3, 000	Favorable		S Fx	77	40	- t -:	1004	1710
Head Island S.C.				Jan.	27, 1955			Unfavorable	(1)	"	70	•	1004	1/10
Buckingham Landing, Mackay Creek, S.C., and another Const. N. 1				•					\/			•		
anchorage basin.				Apr.	2, 1940		Unfavorable	do	(1)					
Buckshutem Creek, N.J.	Nov.	7 1894	Unfavorable					_					,	
Buckshutem Creek, N.J. Bucksport Harbor and Narrows, Maine (see also Penobscot River).	Aug.	2. 1899	Favorable	Dec	16 1900		Farmer Marie	do	H. Ex	42	53	3 1	1895	1096
Penobscot River).		,		J00.	10, 1033	20,000	ravorable		Н	*275	56	ĭ		1103
Buena Vista, Virginia				Dec.	11, 1972	11, 000, 000	Favorable	Favorable	н	*56	02			-
Buffalo Bay and Galveston ship channel, (See					,	-,,0		,anic		. 30	93	1 _		
Galveston, etc.)														

Report not published.
 Estimate of Board of Engineers for Rivers and Harbors.
 Report of Board of Engineers for Rivers and Harbors.
 Report on wharfage privilege.

Abandonment of project recommended.
 Plus cash contribution, estimated at \$28,500, by local interests of 3 percent of the cost of construc-

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	publishe	ed		
		<u> </u>				Recommen-	Congress	sional doc	cuments		Anni repor Chie Engin	t of f of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
suffalo Bayou, Tex. (see also Galveston Bay to			. Apr. 4, 1871 {	\$382, 017 3, 443, 113	Favorable	-}					1871	533
Houston, water route; and Galveston Bay ship channel).			Jan. 10, 1880	1 125 341				53	46	3	1881	1344
·············	May 15 1020	Favorable	Ian 31 1921	249, 000	Favorable	Favorable	·-}H	93	67	1		
				88,000	Favorable	_ ravulable	·-)	*456	75	2		
And Houston ship channel, flood control White Oak Bayou				2 1, 800, 000	do	do	_ (H)	*169	89	1		
ttalo Bayou and tributaries. Lexas, 1900 Dro-			_ Julie 10, 1302					*250	83	Z		
tection for Houston, Tex. uffalo breakwater, New York uffalo Creek, N.Y. (see also Cayuga, Buffalo	Mar. 29, 1905	Favorable	_ July 17, 1905	1, 296, 875	Favorable	do _ Unfavorable	H (')	*240	59	1		
and Cazenovia Creeks, N.Y.).	000. 20, 1021	0111414141414				do	(1)					
and Cazenovia Creeks, N.Y.). uffalo Creek and tributaries, W. Va. and Pa uffalo Fork of White River, Ark. (see also	June 19, 1952		ian 9 1897	3, 500	Favorable	uv	H	207	54	2	1897	199
							(C Ev	15	35	1		
Iffalo Harbor, N.Y. (see also Black Rock Har-			Sept. 30, 1857 Dec. 7, 1866	2/, 6/9	}do)S. Ex	16	35	1		
bor; Erie Basin; Erie Canal and Black Rock Channel and Tonawanda Harbor, N.Y.; and	,		June 27, 1867								1867	22
Great Lakes Harbors studies).			Dec. 27, 1867 {	597, 233	}						1868	20
			Mar. 23, 1874	642, 226 83 000	,				 -		_ 1874	22
			Feb. 19. 1895	1, 357, 725	Unfavorable						1895	314 315
			July 1, 1895			Unfavorable					. 1033	
	Sept. 15, 1913	Unfavorable										
	Dec 20 1915	1		161 000	_		}H	*1139	64	1		
	Mar. 24, 1916			122 000		Favoranie	L					
			Jan. 9, 1929	83, 3/5 77 nnn	ravorable	Favorable	{H. Com	. 1	71	I		
	July 24 1936	Unfavorable	Jan. 9, 1929 {									
	Aug. 4, 1952					do	(')					

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	٦,	

Black Rock Harbor Breakwater Buffalo Creek and Buffalo ship canal Buffalo entrance to Erie Basin and Black Rock Harbor Erie Basin	Nov. 8, 1912 Unfavorable	62, 205
Lake Erie entrance to Black Rock Harbor and Erie Basin. Outer Harbor, entrance to	Sept. 8, 1915 do July 6, 1900 Favorable Nov. 8, 1900 Oct. 20, 1910 do June 10, 1911 Aug. 28, 1923 Unfavorable Mar. 15, 1924 Aug. 29, 1931 Favorable Nov. 8, 1932 July 24, 1936 Unfavorable Nov. 5, 1941 July 24, 1936 Unfavorable Nov. 5, 1941	1
Scajacuada (or Scajaquada) Creek	Sept. 11, 1884 Favorable Jan. 17, 1885 Mar. 10, 1966	26, 000 Unfavorable H. Ex 157 48 2 1885 2283 Unfavorable Unfavorable (1)
tributaries.) Buffalo, Wyo. (See Yellowstone River and tributaries, Wyoming, Montana, and North		H. Ex 71 48 2 1885 1430
Buffington Harbor, Ind. (See also Calumet-Sag Channel). Buggs Island Dam. (See Roanoke River, Va. and N.C.) Bulkhead Harbor, N.C. (See Beaufort Harbor,		Unfav)ra')le (t)
Bullard Creek, Goodhue County, Minn., flood control. Bullards Bar, Calif. (See Yuba River Basin, Calif.) Bull Creek, S.C. (See Bluffton, S.C., etc.)	May 25, 1939do	do(i)
Bullocks Point Cove, R.I. Bulls Bay, S.C. (See Alligator Creek.)	Sept. 26, 1952	4 145, 000 Favorable H *242 83 2
 Report not published. Plus non-Federal cost of \$670,000. 		3 Annually. 4 Plus cash contribution, estimated at \$103,400, by local interests of 42 per ent of the coet.

⁴ Plus cash contribution, estimated at \$103,400, by local Interests of 42 per ent of the cost.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Proliminary	examinations		Surveys			Where published						
	Flemmary	Cammiations				Recommen-	Congre	essional do	cuments		Ann repor Chie Engin	rt of ef of	
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page	
Bunganuc Creek, Maquoit Bay, Maine	Dec. 27, 1946	Unfavorable				_ Favorable	(1)					-	
Beach, waterway.) Bureau, La. (See Empire, La., to Gulf of Mexico, waterway.) Bureau Creek, Ill. (see also Illinois River and tributaries), flood control. Burlington Bay, Minn. (see also Agate and	Apr. 26, 1939			\$435, 000 376, 500	}Favorable	Unfavorable	- (1) - H	*114	56	2	1901	2889	
Burlington Bays.) Burlington Canal, Vt. (See Wells River.) Burlington Harbor, Iowa. (See Mississippi River.) Burlington Harbor, Vt			Sehr. 20, 1027	21, 200			LI Ev	56	23 35 39	1 1 2	1866	179	
Burns Creek, Calif. (See Merced County streams.)	Nov. 25, 1907	Unfavorable	Dec. 20, 1900 {	57, 750 71, 855	Favorable	Unfavorable	S . H	_ 105 _ *1109	56 60	2	1901		
streams.) Burns Ditch Harbor, Ind. (see also Calumet-Sag Channel.) Burns Waterway Harbor, Ind. (See Great Lakes Harbors studies.) Burnt River and tributaries, Oregon, flood control Burt Lake, Mich. (See Crooked Lake, etc.)	Nov. 29, 1935	do				do	(1) (1)						

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Burtons Bay, Va. (See Franklin City to Cape Charles, Va., inland waterway.) Burwells Bay, Va. Isle of Wight County, Va.	Aug. 9, 1938	Favorable	_ June 28, 1939 Dec. 16, 1966	Favorable Unfavorable	do	(1)				·
Rushley Rayou Area La			Sont 7 1072 2	12 250 000 Forestelle	Faurachia	. \}	+167			·
Bushnellville Creek, N.Y., flood control	Aug. 21, 1937	Unfavorable			Unfavorable	(1)				
Bushnellville Creek, N.Y., flood control Bush River, Md Buth Creek, Cherokee Canal, Calif, (see also Secrepath Pives and tribusing Colif.)			_ Jan. 12.1882 (30, 000 Indefinite		S. Ex	68	47	1 1882	949
Butte Creek, Cherokee Canal Calif (see also			Nov 10 1950	27,000 }	Unfavorable	(1)	•	••		545
Butte des Morts Lake Harbor, Wis	Nov. 4, 1920	Unfavorable		••••	do	. (1)				······
Buttermilk Channel, New York Harbor, N.Y.			May 25 1935	783 000 Favorable	Favorable	H Com	+55	74	1	
Bay.)			Mar. 22, 1962	2, 226, 000	do	. н	*483	87	2	
For channel 40 feet deep at mean low water	June 25, 1900	Favorable	Nov. 28, 1900	1, 900, 000		_ H	*122	56	2 1901	1299
For channel 40 feet deep at mean low water and 1,200 feet wide. And Gowanus Bay channels, for removing	Oct 17 1900	Unfavorable	June 3, 1935	783, 000		_ H. Com	*55	74 51	1	
snoars, building sea wall on Governors Island, and for 26-foot channel along Brooklyn wharves from point opposite Wall St. ferry to foot of Bryant St., Brooklyn.								21	2 1891	93/
Ruzzarde Bay and Barnetable Day Canal Jose	Feb. 3, 1825	Favorable	Feb. 15, 1825			S	32	18	2	
also Cape Cod Canal).			Nov 13 1829	455, 815 }		н	83	18	2	
also Cape Cod Canal). Buzzards Bay to Buttermilk Bay, Mass., channel from	Dec 11 1913	Unfavorable	Sant 20, 1014	704, 437 Juntananha			*1241			
Buzzards Bay to Buttermilk Bay, Mass., channel	Dec. 11, 1313	Ulliavulaule	Sept. 8 1947	18 300	Uniavorable	. n	*1341 *552	63 80	3	
from.			- Oopt. 0, 1947	10, 500	avoiable	· "	332	80	2	
Byram Harbor, Conn Byram River and Harbor, N.Y. (See Port Chester Harbor.)	Nov. 26, 1894	Favorable	•••••		do	. H. Ex	23	53	3 1895	863
Byram River and tributaries, Connecticut, flood control.	Nov. 13, 1942	Unfavorable			Unfavorable	. (1)			•••••	
C										
Cabaret Slough, Ill. (See Mississippi River.)										
Cabin Branch and Curtis Creek, Md.	Dec. 12, 1912	do			do	. н	*1439	62	3	
Cabin Creek, Md. Cache River, Ark. (See also White River and upper Cache River).	reb. 17, 1880	ao	lan 25 1971	4 000		. S. Ex	90	46	2 1880	
upper Cache River).			Dec. 16, 1880	30 316		. п	38	41	3 1871 3 1881	354 1477
••			Jan. 22, 1887	7,000 Favorable	• • • • • • • • • • • • • • • • • • •	S. Ex	105	49	2 1887	1547
	July 25, 1895	Favorable		,	Favorable				1895	2037
	Nov. 17, 1928	Untavorable		·	Unfavorable	- (¹)				

Report not published.
 Mississippi River Commission report.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Prelimina	ry examinations	Surveys				Where published						
	Trummer, Johnson					Recommen-	Congressional documents				repor Chie	nnual port of nief of gineers	
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page	
Cache River, Ark., and Mo., flood control			Dec. 4, 1941 Mar. 10, 1949	\$22, 400, 000		Unfavorable Favorable Unfavorable	. (¹) . S . (¹)	*88	81	1			
Cache River, III., prevention of break from Mississippi River at Beechridge. (See Mississippi River.) Cache River, III., tributary of Ohio River													
Caddo River, DeGray Dam and Reservoir, Ark.													
(See Ouachita River.) Cadet Bayou, vicinity of Lakeshore, Miss Cadet Bayou, Miss., in vicinity of Waveland,	Fab 27 10	39 do	Apr. 3 , 1970 _ Aug. 7 1939	11,000	Favorable	Unfavorable Unfavorable	_ (1)				·	·	
Cadet Bayou, Miss., in Vicinity of Wavelanu, Hancock County, Cadle Creek, Anne Arundel County, MdCadron Creek, Ark	Dec. 23, 19	38do	June 24, 1939 Oct. 24, 1958	5, 500	do	Favorable _ Unfavorable	. H	*456	76	1		·	
Cadron Creek, Ark., flood control.	_ Jan. 15,19	3/do		43, 000		Favorable	(1)	230					
Cahaba River, Ala			Jan. 27, 1875 Feb. 1, 1881	40, 000 577, 000	havorable	Unfavorable	Н Н	36 697	43 46 61	3	1875 1881	1232	
Caillouet Canal, La. (See Grand Caillou and Le	May 12.19	009 Unfavorable 126 (2)				(2)	H	467	69	1		· •	
Carlibouet Canai, La. (See St. Croix River, Maine.) Calais Breakwater. (See St. Croix River, Maine.) Calaveras River, Calif., flood control Calaveras River, Calif., Mormon Slough	•		Apr. 11, 1923 Aug. 28, 1962	229, 000 § 1, 960, 000	Favorable 	Favorable	н	217 *576	68 87	1 2	(4)		

Calaveras Stream Group, Calif. (See Litlejohn Creek.)

Cleek.)					f 1, 150, 000	1						
Calcasieu Lake and River, La. (see also Rio Grande to Mississippi River, waterway).	July 19, 1905	Favorable	Jan.	9, 1906	1, 165, 000 2, 135, 000 1, 585, 000 1, 410, 000 590, 000	Unfavorable	Unfavorable	. н	724	59	1	·····
Calcasieu Lake to Sabine Lake, La., waterway via Black Bayou (see also Black Bayou). Calcasieu Pass, La. (See Calcasieu River, La.)	Nov. 13, 1890	Unfavorable							125	51	2 1891	1850
Calcasieu River and Pass, La. (see also Rio			July	30, 1871	15,000	Favorable				-	1871	557
Grande to Mississippi River, waterway; and Lake Charles deep water channel, ship channel, etc.).			Jan. Dec. Nov.	10, 1881 2, 1886 19, 1888	600,000	do	Unfavorable _ Favorable	. п	30			1301 1402 1527
	July 31, 1916		- 		45,000	do	Favorabledo	·}H	*148	65	1	
			luna	1 1060	16 992 000		ravorable	-) <u>u</u>	*#36	oc .	2	
Calcasieu River and tributaries, Louisiana Calcasieu River, Bayou Nezpique and Bayou		· · · · · · · · · · · · · · · · · · ·	Aug.	25. 1967	10, 332, 000	Unfavorable	Unfavorable	(1)	430	00	4	
Calcasieu River and tributaries, Louisiana			Nov. 1	3, 1947			. Unfavorable	(1)	·			
Calcasieu River, Bayou Nezpique and Bayou	Dec. 15, 1928	Favorable	Mar, 1	7, 1932		Unfavorable	do	. Ĥ	•75	73	1	
Calcasiau River, La	May 18 1936	Favorable	Sept. 1 Anr 2	17, 1934 7 1027	9 260 000	Favorable	do . Favorable	· (;)	*200	75	i	
At Lake Charles, La	may 10, 1330	do	lune	7, 1941	55 000	do	do	u	*465	77	i	
Cost Sharing—Salt Water Barrier			June :	11. 1963	(6)		dodododo.	. Н	169	88	i	
Devil's Elbow, La Gulf of Mexico to city of Lake Charles, La_		;	Sept. 2	21, 1970	7 3, 762, 000	Favorable	do	. S	*111	91	2	
Gulf of Mexico to city of Lake Charles, La	Jan. 21, 1918	Favorable	July	9, 1920	25, 800	do	do	. <u>H</u>	974	66	3	
To Sabine Pass, waterway (see also Rio Grande to Mississippi River).	Nov. 20, 1882	Unfavorable						. S. Ex	30	48	1 1884	1285
To Sabine River, Tex. and La. (See St.												
George Sound to Rio Grande, etc.)			•				•••••••					
Calcasieu River salt water barrier, La			July 3	30, 1962	* 3, 310, 000		. Favorable	H	*582	87	2	
George Sound to Rio Grande, etc.) Calcasleu River salt water barrier, La Calcite Harbor, Mich	Sept. 25, 1930	Unfavorable					Unfavorable	(1)				
Caledonia, N.Y. (See Genesee River.) Calf Island, Roque Island Bluffs and Seawall								**				
Point Maine.			may 2	28, 1964	• • • • • • • • • • • • • • • • • • • •	Unfavorable	ao	· (¹)	· • • • • • • • • • • • • • • • • • • •	• • • • • •	••••••	
Calhoun Point, Ill. (See Mississippi River.) Calhoun-Victoria Soil Conservation District, Tex. Callente Creek, Calif. (See Kern River, Calif.) California. (See Central Valley reclamation			Oct. 2!	5, 1966	••••••	do	do	· (¹)	·		•	·
project.)												

¹ Report not published.
2 Abandonment of project recommended.
3 Plus non-Federal cost of \$28,000.
4 Report of California Debris Commission.

Plus non-Federal cost of \$1,500,000.
6 Local interests not be required to bear 50 percent of construction of salt water barrier system.
7 Plus non-Federal cost of \$356,000
4Plus non-Federal cost of \$43,000.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

	Preliminar	y examinations		Surveys				Where	publish	ed		
		,				Recommen-	Congres	ssional do	cuments		Ann repo Chie Engir	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
California mining debris, prevention of injury to navigable waters by (see also Sacramanto and Feather Rivers and tributaries and Sacramento River and tributaries). Calion, Ark. (See Duachita River near Calion,			Mar. 22, 1880 Jan. 10, 1881 Aug. 10, 1910 June 17, 1913	\$250,000 150,000 33,800,000 12,517,008	Favorabledodo.	Favorable Unfavorable Favorable	H. Ex H. Ex H. Com	*69 76 *81 *5	46 46 62 63	2 3 1 1	1881	*2485
Ark.) Calleguas Creek, Calif., Los Angeles County streams, flood control. Calogogabatchae River, Fla. (see also Kissimmae			_ Aug. 27, 1879	20, 000	Favorable		. H. Ex	82 190	45 59	3	18/9	863
River and Indian River to San Carlos Bay and Pensacola Bay to Florida East Coast Canal). Flood control Lake Okeechobee to the gulf, including Orange River.	May 29, 1925 Jan. 11, 1927 July 27, 1907	dodo	Dec. 18, 1912 {			Favorable Unfavorable Unfavorable Favorable	. H	*690 347	69 60 61 63	1		
Mouth to Fort Myers			Jan. 24, 1951			Unfavorable	H	756	65 85	2		· · · · · · · · · · · · · · · · · · ·
To Anclote River, Fla) 1		Nov. 15, 1927 {	1, 115, 706 620, 000	Favorable	Favorable	<u>_</u> }H	*215	70 70	1		
Fla., and Florida, central and southern, flood control).	Jan. 21, 193		(Jan. 26, 1929	9 692 000	Favorable	do	(S. H. Com S	47 225 *115	70 70 71 71 71 75	2 2 3 2	(2) (3)	

And the North New Pines Const		•	Unfavorable			, 19394		Favorable		() H	*469				
And the North New River Canal	Dec.	8, 1937	Unfavorable	June	20,	. 1933		. Unfavorable	do	(1)					
Side channels Caleosahatchee River to Withlacoochee River,				June May	5, 5	, 1943 , 1939	5, 100		. Favorabledo	Ĥ	*736	79 76	2 .		
Fla., Intracoastal Waterway from. Calumet Harbor, Iil				Dec.	1.	1836	142, 214								
						1845									
				-		, 1850	115, 445 299, 875	Favorable)						·
						, 1869 { . 1895	695, 000	Unfavorable	-}		·				104
						1896	154, 550 1, 134, 870	ravorable	Favorable	H	•277	54		1895 1896	2771 2533
Calumet Harbor and River, III	Aug	. 28, 1909	Favorable			1911 1940	38, 170	Unfavorable	- Favorable	H	237	63	Ī.		
Calumet Harbor and River, III. and Ind. (see also	Jan.	22, 1931	Favorable				4, 540, 000	Favorable	do	н	*494	72	2		
Great Lakes Harbors studies).				Feb.	6,	1939			Favorable Unfavorable		*233	76	ī.		
Calumet Harbor, Lake Winnebago, Wis. (see	Aug.	4, 1892	Unfavorable						_ Unfavorable	H. Ex	117	52	2	1893	2783
also Fox River). Calumet Lake to Calumet River, III., canal Calumet River, III. and Ind	Sept	. 10. 1884	do							H Ev	71	48		1885	2057
Calumet River, III. and Ind		15 1000	- 16.56.5.2.2.66	Dec.	17,	18676								1003	2037
	Aug.	. 15, 1868	Unravorable				125,000)		S. Ex	25	42	3.		
	C4	0 1000	Favorable	Jan.	7,	1882 {	181, 250	}Favorable		S. Ex	77	47		1882	2247
	Sept.	. 3, 1002	ravotable			1000 (30	48	-	1884	1951
				oct.	О,	1882	625, 000	} + avorable	Favorable	S. Ex	9	47	2	1883	1748
	•		do				375, 000	Unfavorable		H. Ex	71	48	2	1885	205 9
	Nov.	16, 1896	Unfavorable	Dec. Feb.			1, 537, 360	do	_ Unfavorable					1889	2151
	Aug.	3, 1903	Favorable	Sept.	16.	1903	662, 480	do	Favorable	н	*172	58		1889 1904	2158 2941
	Nov.	11, 1907	do	Nov.	25,	1907	78, 000	do	do Unfavorable	H	349	60	ī.		2371
	May	28, 1915	UNIAVOIADIE	 .					_ Unfavorable	H	224 •470	63 64	1 -		
Calumet River to Lake Michigan, canal	June	5, 1945	Favorable				434, 300	-,	Favorable	H	*153	82	i :		
Calumet-Sag Channel, Ill. (see also Illinois	Nov.	22, 1930	Favorable	Jan. June	15.	1889 1933	1, 888, 550 2 814 500	Unfavorable	Unfavorable Favorable	ŭ	*180	73	1	1889	
Waterway and Grand Calumet River, III. and				Jan.			2, 514, 500	Favorable	do	H. Com	*19	73 75	í.	· (¹)	
Ind.). And Indiana Harbor and Canal, Ind	July	2, 1936	Unfavorable	Nov	15	1938	25 900 000	Favorable	Unfavorable Favorable	(j)	•145	76			
t Desert and make to a					,		_0, 500, 000				140	/0	1 -		

<sup>Report not published.
Report of Secretary of Agriculture.
Report of Okeechobee Flood Control District of Florida.
Interim report.
Map(s); no report.</sup>

Made in connection with survey for canal from Lake Michigan to the Mississippi River via Illinois River.
 Report of special board of officers.
 No change in authorized cost.

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	e publish	ed		
						Recommen-	Congre	essional do	cuments		Ann repo Chie Engir	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Calumet-Sag Channel and Little Calumet River,			_ Feb. 23, 1942			Unfavorable	(1)					-
III. Camas Slough, Wash. (See Washougal Slough.) Camas, Wash. (See Columbia River at Camash,							40					
Wash.). Cambridge Creek to Fishing Bay via Little Blackwater River, Md.	Oct. 20, 1939	do					. (')		41		1871	61
Cambridge Harbor, Md	Nov. 22, 1886	Favoable	Jan. 2, 1871 Sept. 13, 1887	17, 136	Favorable		H. Ex	105	49		1887 1897	85 129
		Favorable	3ept. 23, 1030	1/ 500	do	Favorable _Unfavorable)	*560	54 61	ž		
	Apr. 27, 1923	do	_ Dec. 15, 1923	18, 500	Favorable	Favorable	- lu	*210	68	1		
			Aug. 18, 1936 Apr. 13, 1942	34,000	Favorable	do	_ H. Com		75	1		
	Feb. 7, 1946	do	Mar. 18, 1947	77,000		Favorable Unfavorable		*381	80	1		
Camden County Streams, N.JCamden Harbor, Ark. (See Ouachita River.) Camden Harbor, MaineCamden Harbor, Maine			Dec. 16, 1872	ro 200	Favorable		S. Ex	- 25 141	42 50	3 1	1873 1888	1106 403
ounded nates,	Tune 15, 1899	Favorabledo	_ Dec. 23, 1899	7,400	do	Favorable	. Н Н	- 263 *1117	56 60	1 2	1900	1111
	Dec. 13, 1920	do Unfavorable				Unfavorable	- :::					
	Sept. 14, 1927 Oct. 10, 1930	Favorable	Jan. 29, 1932	30,000	Unfavorable	do	- (1)					
			Apr. 3, 1970		Hafavorable	dodo	(1)		62			
Breakwater to Negro Island	_ Aug. 31, 1900) Untavorable										

Breakwater to Negro Island.
Camden, S.C. (See Columbia and Camden to
Charleston, S.C., waterway.)
Camp Pendleton and Oceanside, Calif. (See
Beach Erosion studies.)

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Canada Lake drainage area, New York. (See Bellows Pond and Canada Lake drainage area, Fulton County, N.Y.) Canadian River and tributaries, New Mexico, flood control. Canal Creek, Calif. (See Merced County streams.) Canandaigua Lake, N.Y., flood control. (See Oswego, Oneida, Seneca, and Clyde Rivers, N.Y.)	Nov. 26, 1929	do	······	·····		do	. н	*371	71	2
Cananiteit Channal Mace	Dec. 19, 1890	Favorable	Nov. 14, 1891	4, 800	Favorable		. H. Ex	59 467	52 69	1 1892 645
Canarsie Bay, N.Y.	May 12, 1926	(2)	Feb. 11 1879	88.000		. (*)	. H. Ex	89	69 45	3 1879 400
Denougla N V \										
Canaveral Harbor, Fla	Sept. 18, 1892	Favorable					. H. Ex	54	52 53	2 3 1895 1604
			Feb. 11, 1895	4, 091, 010 7, 460, 970	Unfavorable		-}H. Ex	321		3 1893 1004
	Dec. 6, 1917	Unfavorable	{			_ Unfavorable	Ĩ <u>ˈ</u> Hۣ	875	65	2
	Nov. 18, 1935	do				do	- (1)	 -		
•	1 26 1020	Camarabla	Mar. 17 1041	1 661 000	Fauerable	Egyarabla	u	367	77 87	*1
Cane Creek, Okla	July 10, 1958		July 6, 1962	* 5,076,000		_ Unfavorable	. (¹)			
Cane River, La								30 184	48 51	1 1884 1366 2 1891 2022
	May 12 1926	(2)				(2)	н	467 •412	69 64	1
Grand Ecore to Colfax	June 18, 1915	Unfavorable				. Unfavorable	. н	*412	04	1
tributaries.)	0.4 10 1025						(1)			
Caney Creek, Grayson County, Ky Caney Creek, Tex				30,000	Unfavorable		. (9		· • • • • • • • • • • • • • • • • • • •	1889 1580
,	July 24, 1899	Favorabledodo	Jan. 24.1900	20,000	Favorable	Unfavorable	- H	450 1042	56 65	1 1900 2453
Caney Fork River, Tenn			Feb. 20, 1879	30, 228	do		_ H. Ex		45	3 1879 1275 1887 1768
	Oct. 16, 1884 June 22, 1909	Indefinite	. Sept. 24, 1886	53, 000	do	Unfavorable	. H	693	61	2
	Mar. 24 1914	do .					_ n. com	16	63	2
Canisteo (Sanisto) River, N.Y. (see also Susquehanna River and tributaries).	May 28, 1937	havorable		· · · · · · · · · · · · · · · · · · ·		ravorable	- ('*)			••••••
Cannasanier Lake, La. (See Tones Bayou, etc.) Cannonball River at Mott, N. Dak			A 14 10EC	424 000		do	ш	*35	85	1
Cannonball, Grand, and Moreau Rivers, N. Dak.	July 15, 1932	Unfavorable	_ Aug. 14, 1956	434,000		do Unfavorable	Н	*76	73	1
and S. Dak.	,									

¹ Report not published.
3 Abandonment of project recommended.

³ Definite project, flood control; authorized under sec. 5 of Flood Control Act of June 22, 1936.
⁴ Plus the cost of work already authorized.

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

	Preliminary	examinations		Surveys				Where	e publish	ed		
						Recommen-	Congre	essional do	cuments		Anr repo Chie Engir	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress		Year	Page
annon River, Minn., flood control (see also Mississippi River Reservoirs).	Aug. 20, 1938	Unfavorable				Unfavorable	. (¹)					
anoe Creek, Ky. (See Ohio River.) anoochee River, Ga. (see also Ogeechee and Canoochee Rivers). anton, Ky. (See Cumberland River and tribu- taries, Kentucky and Tennessee). anton, Mo. (See Mississippi River at Canton, Mo., flood protection, interim). anton Reservoir. (See North Canadian River, N. Mex., Tex., and Okla.) anyon Dam site near New Braunfels, Tex. (See Guadalupe River. Tex.)			Nov. 27, 1880	\$55, 499			Н, Ех	_ 19	46	3	1881	1157
pe Ann, Mass. (See Rockport and Sandy Bay.) pe Canaveral, Fla. (See Canaveral Harbor, Fla.)												
ape Channel (Pamlico Sound) Buxton, N.C			May 13,1965 May		. Untavorable	Unfavorable	- (1)					
ape Charles City, Va., harbors of			May 12, 1942 Oct. 24, 1888 Nov. 21, 1889	470, 000 155, 100 142, 340	fulliavorable	Favorable	H. Ex	*90 29	79 51	1	1890	97
	June 10, 1911	Unfavorable	(1104. 21, 1003		·	Unfavorable	H	1085	62	3		
	Aug. 4, 1915	(2)	July 27, 1933				. H	*524	62 6 4	1		

Cape Charles, Va., and Cherrystone Channel, harbor of refuge.						•	Favorable	. Favorable	. н	*580	75	3
Cape Cod and Cape Cod Harbor, Mass Cape Cod Canal, Mass				Feb.	21, 1835 27, 1957 29, 1974	3 360, 000		Favorable Unfavorable	ш	247 *168	25 85	2
Cape Cod Canal and Buzzards Bay, Mass				Nov.	10, 1930	{ 34, 233, 000 23, 250, 000	Favorable	Favorable Unfavorable	}H	*795	71	3
Buzzards Bay and Barnstable Bay en- trances.			•••••	Feb.	3, 1882		}		S. Ex	104	47	1 1882 579
Buzzards Bay to Cape Cod Bay, Mass	Jan.	25, 1918	Favorable	Apr.	4, 1918	8, 265, 743 10, 000, 000 5, 000, 000	Favorable	- Favorable	}н	1768	65	3
				_				See also	HH. Rept	1812 68 139 181	65 66 67 68 69	3
Hyannis to Barnstable Bay, Mass	Feb.	3, 1825	Unfavorable		10, 1934	26, 000, 000			(S	*15 32	74 18	1
Onset Day, Mass. Cape Cod Canal to Race Point, Provincetown, Mass. (See Beach Erosion studies.) Cape Cod, Mass. (See Provincetown Harbor, Mass.)	Oct.	3, 1940	Favorable	Mar.	13, 1941			Favorable	(H H	83 431	18 77	2
Cape Cód, Mass., Chatham to Point Gammon. (See Beach Erosion studies.) Cape Cod ship canal, Massachusetts, approaches. Cape Fear River Basin, Randleman and Howards	Feb.	16, 1897	Unfavorable	Mar.	29 1968	119 463 000	Favorable	Unfavorable	H	311 *343	54 90	2 1897 864
Mill Reservoir, N.C. Cape Fear River, N.C. (see also Northeast	Mar. 3	1, 1930	Favorable	Apr.	11. 1933	13, 403, 000	Unfavorable	de de	п	193		2
Cape Fear River, N.C. (see also Northeast Branch, Cape Fear River, N.C., and Brunswick River and Deep Creek and Beaufort, N.C., to Key West; and Beaufort to Cape Fear River,	•			July	16, 1962	25, 462, 000		do	H	*508	73 87	2
N.C., Inland and/or Intracoastal Waterway). Above Fayetteville	Jan. 2	7, 1883	Unfavorable	2-1	11-7111-			·	S. Ex	30	48	1 1884 1064
Above Wilmington, N.C	Feb.	1, 1923	Favorable	Dec.	24, 1 89 5 31, 1924 15, 1930					*65 *786	54 71	1 1896 1144
				ADF.	14 1939	1, 520, 000 1 510 000	Unfavorable	Favorable Unfavorable Favorable	()	*252		
Anchorage Basin at Wilming ton						291,500	do	·	H	*180	59 56	2 1901 1557
And Waccamaw River, S.C., waterway. (See Waccamaw and Cape Fear Rivers, waterway.)						30,000)				

Report not published.
 Abandonment of project recommended.
 Plus cash contribution by local interests of 20 percent of project construction cost, estimated at \$90,000.

Plus non-Federal costs of \$12,460,000.
 Plus non-Federal costs of \$108,000.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Where	publish	ed		
						Recommen-	Congre	ssional doc	uments	-	Ann repo Chie Engir	rt of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
And Deep RiverAt and below Wilmington			Mar. 30, 1853	154, 588 958, 200					42 20	3 1	1872	741
	Aug. 5, 1909		Mar. 18, 1858 Feb. 28, 1889 Jan. 13, 1906 Jan. 31, 1911 May 5, 1939 Sept. 8, 1938 Mar. 26, 1948	1, 800, 000 1, 050, 000 572, 940 790, 000	Favorable do do do do do	FavorabledodododoUnfavorable	H, Ex H H S H H	*287 - *287 - *83 - *131	51 59 62 76 76 81 63	1 1 2 1 1 1	1889	1132
Below Wilmington		Unfavorable Favorable	Feb. 28, 1921	2, 275, 000 420, 000	Favorable	Umavorable Favorable) u	. *94	67	1		
	Feb. 17, 1926	do	Sept. 28, 1928 May 13, 1930	281,000	Favorable	Favorable	}H H. Com	- *615 - 39	70 71			
Carolina Beach pier, channel to mouth	Sept. 12, 1916	Unfavorable	Aug. 13, 1870	100, 000		Unfavorable	H	_ 1990	64			
Northeast Branch. (See Northeast Branch). To Little River. (See Beaufort, N.C., to Key West.) To Winyah Bay, S.C., vicinity of Single- ton swash, Intracoastal Waterway). Waterways from Neuse River, N.C., to Norfolk Harbor, Va. (See Norfolk Harbor, Va., to Cape Fear River, waterway, also Neuse River to Cape Fear River,	Aug. 10, 1948					Unfavorable	(1)			-		

waterway.)

Wilmington to Fayetteville			Favorable	Nov. Feb.	7, 1	900 907	1, 320, 000	do	Faceable		45 78 180 16	46 46 56 59	3 1881 10 2 1901 15 2	
Wilmington to the sea	. Oct. . Feb.	5, 1915 17, 1926	dodo	Apr. Sept May	14, 19 28, 19 22, 19 13, 19 19, 19	917 928 930	303, 625 23, 500 23, 500	Favorabledo	Favorable do	H	890 *746 *615 39 *17	60 65 70 71 75	1 2 2 1	
Myrtle Sound. (See Beaufort to Cape Fear River, N.C., Intracoastal Waterway.) Cape Fear River, N.C., to St. Johns River, Fla., Fort Moultrie Military Reservation yacht basin.		-`		_ July	31, 19	39		do	_ Unfavorable	(1)		• • • • • • • • •		
Cape Fear River, N.C., to St. Johns River, Fla., Intracoastal Waterway.	Jan.	16, 1928	Favorable)	5, 907, 000 8, 835, 000	Favorable	Favorable Favorable	{H	•41	71	1	
	May	4, 1936	Unfavorable	July	25, 19 3, 19 22, 19	36	2. /60. 000	no	Favorable Unfavorable Favorable	LI Com	*618 *6	75 75	3 1	
Bridges in Horry County, S.C. Near Ocean Drive Beach, S.C. Vicinity of Savanneh Birds	lune	R 1050		. Aug. . Apr.	11, 19 22, 19	48 32	350, 000		. Unfavorable	(1)	14	76 72	1	
Winyah Bay to Charleston, D.C.				. Aug. . Mar.	11, 194 14, 193	32 {	995, 432 1, 000, 000	••••••	Unfavorabledo	H. Com	*11	72	1	. .
Yacht basin at Southport, N.C	Apr.	18, 1938	Unfavorable	Jan.	17, 19	38	23, 500	Favorable	Unfavorable Favorable	(1)	*549	75	3	
Cape Foulweather, Oreg. (See Foulweather, Cape.) Cape Girardeau, Mo. (See Mississippi River.) Cape Gregory, Oreg., harbor of refuge. (See Gregory, Cape.) Cape Lookout, N.C. (See Lookout, Cape.) Cape Lookout, Oreg., harbor of refuge. (See Lookout, Cape.) Cape May City, N.J. (see also Cold Spring Inlet)	Nov	1 1900	do											
1 Report not published.		., 1030 _							. Unfavorable and remedial meson		39	51	2 1891 109	19

$\tilde{\alpha}$

IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

	Preliminary	examinations		Surveys				Wher	e publish	red		
						Recommen-	Congre	ssional do	cuments	3	Anr repo Chie Engir	rt of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Cape May County, N.J., waterway connecting New Jersey State inland waterway and Dela-	Mar. 6, 1936	Favorable	Sept. 30, 1938	\$2, 100, 000	Favorable	_ Favorable	. н	*133	76	1		
ware Bay. Jaje May to Great Bay, north of Atlantic City, thoroughfare, New Jersey (see also Atlantic City Haroor). Sepe May, N.L., to New York Bay, N.Y., inland	Oct. 3, 1890	Unfavorabledo	Apr. 25, 1888 {		jdo	Unfavorable	H Fx	306 50 727	50 51 65	1 2 2	1888 1891	730 1097
- v- terway. Cape Neddick River, York, Maine. Cape Norldick River, York, Maine, mouth	July 28, 1915	do	Aug. 16, 1962			do	. (¹) . H	526	64	<u>1</u> -		
Cape Porpoise Harbor, Maine	Oct. 26.1894 June 3,1905	Favorabledo	Oct. 2, 1845 Jan. 9, 1899 Oct. 10, 1905	125, 000	Favorabledo	Favorable	_ H	22 160 *191 467	53 55 59 69	3 3 1	1895 1899	583 1050
Cope Small Harbor, Maine	Aug. 4, 1902	Favorable	June 2, 1947	³ 41, 500	Favorable	_ Favorable Unfavorable	. Ĥ . H	*555 244	80 58		1904 1889	793 2432
ape Vincent Harbor, N.Y.			Feb. 12, 1889 Mar. 6, 1897 Mar. 11, 1897 July 19, 1897	212, 800 230, 000	ravoiable							
Harbor of refuge	Mar. 31, 1923	Unfavorable 	Oct. 21, 1935 May 5, 1939 Sept. 30, 1857	59.000	Unfavorable Favorable	dodo.	. (1) . (1) . H	*363		ı		

Capi Artano, Calif. (See Paints Dume and.) Capr ants: Waterway. (See Anacortes. Harbor, Wash.)

Carankaway Bay and River, Tex	_ Apr,	7, 1916	Unfavorable				**	_ Unfavorable	. н	*1240	64	1	
Arkansas River, Kans., Okla., and Ark., etc.) Carlin Bayou, La. (see also Petit Anse, Tigre, and Calrin Bayous, and Teche Bayou, La., to Intra-				_ Aug.	14, 1891	40, 000	Favorable	do				18	91 1838
coastal Waterway). Carmouchee River. (See Ozeechee River.) Carolina Beach and vicinity, N.C. (Sec Beach Erosion studies and Hurricane studies.) Carolina B aach Harbor, N.C. Carondelet Canal, La. (See Pontchartrain Lake to Mississippi River.)	-,	•		_ June	13, 1966	43, 200	Favorable	. Favorable	. н	*515	89	2	••••••••••••••••••••••••••••••••••••••
Carpenter Point, Md. (See Charleston, Northeast River to Havre de Grace, channel). Carpinteria to Point Mugu, Calif. (See Beach Erosion studies.)													
Carn River Mich	. June Sept.	25, 1931 19, 1955	Unfavorable					Unfavorable	H	*142	72	1	
At Leland, Mich.	Oct.	—, 18 8 7	Unfavorable	Feb.	2, 1870	237, 940	Unfavorable		H. Ex H. Ex	65 58	41 50	2 187 1 188	
Carquinez Strait, Calif. (see also San Joaquin River, from San Francisco to Stockton and San Pablo Bay). At or near Benicia, Calif. Channel to Golden Gate, off Points Pinole	Oct.	25, 1938	Unfavorable	. July July	26, 1887 15, 1935	2, 500	Unfavorable	Unfavorabledo	8			188	7 2426
and wilson and Lone free rount, San	. Aug. Mar.	9, 1937 29, 1899	Favorable	Sept.	6, 1899	381,000	Favorable	Favorable	(i) H	89	56	1 190	D 4258
Pablo Bay. To San Joaquin River at Antioch, through Suisun Bay.	Aug.	21, 1900	do	_ Dec.	12, 1900		Unfavorable		. н	201	56	2 190	1 3449
Carrabelle Bar and Harbor, Fla. (see also Dog Island Harbor and East Pass, Carrabelle Bar,	Feb.	6, 1895	Favorable						H. Fx	131 328	47 53	1 188 3 189	
etc., and Apalachicola Bay).	July June	12, 1900 17, 1911	do do Unfavorable	Dec.	15, 1900	27, 450 47, 300	Favorabledo	Unfavorable	H	63 *227 622	56 56 62	1 190 2 190 2	0 2152 1 1800
	Sept.	16, 1935	Favorable	Dec.	23, 1936 12, 1954 7, 1966	250, 000 § 1, 000	Favorable Unfavorable Favorable	Favorable do	H	*184 *451	75 83	1 2	
Carrabelle, Crooked, Ochlockonee Rivers and Ochlockonee Bay, Fla.	Apr.	27, 1936	do	June	1, 1937	480, 000	Favorable	Favorable	. Н	*291	75	1	
tor Harbor Tide Creek, and Panacea, Gulf Intracastal Waterway from. Carrabelle Harbor, Fla. (See Carrabelle Bar and	HUY.	3, 1948	Unfavorable	• • • • • • • • • • • • • • • • • • • •				Unfavorable	(1)				
Harbor.) Carrls River, N.Y	Oct. July	20, 1894 20, 1902	do Favorable	July	20, 1093 {	52, 000 45, 000 }	Unfavorable	do	H. Ex H	40 210	53 58	3 189 2 190	5 1003 4 1505
1 Report not published						4 Annual n	naintenance drede	sin a					

 ¹ Report not published.
 2 Abandonment of project recommended.
 3 Plus contribution by local interests of 1/3 the cost of construction, not to exceed \$20,000.

⁴ Annual maintenance dredging. 5 Increased cost of annual maintenance.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974-Continued

	Preliminary	examinations		Surveys				Wher	e publisi	ned		
						Recommen-	Congre	ssional do	cument	3	Ann repor Chie Engin	rt of ef of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Carters Creek, Va			1	25, 600		}			56	-	1900	1747
Carter Lake, Iowa and Nebr	Sept. 16, 1927	Unfavorable Favorable Unfavorable	_ May 19, 1928 {	12 050		Favorable	}H	*518	70	2		
Carthage and Monett, Mo. (See Arkansas River and tributarics.) Caruthersville, Mo. (See Mississippi River.) Carvers Bay, Mich. Carvers Harbor, Vinalliaven, Maine	Feb. 12, 1936	do	Fob. 2 1805	64.000	Favorable	do	(¹) H Fv	*304		3 2 2	1895	587
Oreg., and Wash.) Casco Bay, Maine. (See Brunswick Canal; South Harpswell, Maine south side of channel; and Portland Harbor, Maine.) Cases Inlet (Horth Bay), Puget Sound, Wash. (See Hood Canal)	Oct. 21, 1882 June 15, 1905 Sept. 23, 1915	do do do do	Nov. 22, 1960	² 32 7, 0 00		Unfavorable do Favorable	S.Ex H H	30 192 483 *64	48 59 64 87	1	1884	2077

Cashie River, N.C	Oct. 13, 1030	Uniavorable _		3, 000	Unfavorable	H. Ex H	263 88	48 54	2 2	1885 1897	1053 1381
Below Windsor. Cashville (Broadway Road), Accomack County Va., to Onancock River. Cassidy Bayou, Miss	Apr. 30, 1926 y, Mar. 4, 1938	Favorable Unfavorable	June 6, 1963 Feb. 11, 1927	5,000 Favorable	ravorable Unfavorable Favorable Unfavorable	H. Com (1) H	*31 779	75 69	ī. <u>2</u> .	•••••	
Mouth more Marilla 4 D. C. and	May 17, 1893	Favorable	Sept. 19, 1887	5,000 Untavorable		H. Ex	71	48	2	1885	1534
Cass Lake, Minn., outlet to the Mississippi Rive Cass Lake, Minn., outlet to the Mississippi Rive Cass Lake and Leech Lake, Minn. Cass Lake, Knutson Dam, Minn. Cassville, Wis., to Mile 300. (See Mississipp River.)	Aug. 19, 1909 r_ Dec. 20, 1920 July 2, 1926	Unfavorable dodo			Unfavorable do do	H(¹)	324	61	2 _	1893	2095
Cassville, Wis., to Mile 300. (See Mississipp River.)	i		- Mar. 31, 1961		do	(1) (1)					
Channel Harbor of refuge	Dec. 21, 1911 May 26, 1928	do	Feb 27 1880	2 410	do	H	251	63	1	·	
Castaigne Bayou, La., bar	July 10, 1933	Unfavorable	- 1 00. 27,1000	3, 410	Unfavorable	(1)					
tributaries.) Catahoula Shoals La (See also Little River and	Jan. 29, 1895	do		·	do	H. Ex	185	51	2 1		2028
datally day to San Juan Harbor, P.R., channels	Dec. 11. 1913	Favorable	A 21 1015				303 *482	53 64	3 1	895	1962
rrom. Jalawba River, N.C., and S.C. (see also Santee River and Wateree River).							94 161	44 56			, 367 911
at Creek or River, Va. (see also Franklin City). athance River, Maine	July 2, 1888 June 12, 1907	Favorable	Apr. 11, 1908	12, 100 Favorable	Favorable F	I. Ex	58	50	1 {1 }	388 388 888	958 961 962
tat Creek or River, Va. (see also Franklin City). athance River, Maine	May 12, 1926 Feb. 26, 1946	(3) Favorable	Nov. 20, 18/9 Aug. 25, 1947	30, 000do	. (3)	. Ex	33 467	46 69	2 18 1	380	354
atskill Creek, N.Y. (see also Esopus, Rondout, and Catskill Creeks, N.Y.)	Oct. 26, 1896 July 28, 1902	do	Oct. 28, 1903 {	3, 600 }Favorable	Favorable H		56 *59	54 58	2 18 2 19	97 1	011
¹ Report not published.	Dec. 23, 1938 U	Infavorable	July 29, 1930	74, 111 } (4) Unfavorable	Unfavorable (1	 }					.054
2 Plus cash contribution, estimated at \$327 000	by local interest			3 Abandonment of project re	(-,	/			• • • • • •		

Report not published.
 Plus cash contribution, estimated at \$327,000, by local interests of 50 percent of the first cost of construction.

Abandonment of project recommended.
 Unfavorable until all private rights to collect tolls are satisfied.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

				Surveys				Where	publishe	∌d 		
	Preliminary	examinations		Surveys		Recommen-	Congre	essional do	cuments		Annu repor Chief Engin	t of f of
Locality	Date of report	Recommen- dation	Date of report	project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	sion		
	Aug. 21, 1937	Unfavorable		ecc 710		Unfavorable	_ (1)					
atskill Creek, Greene County, N.Y., flood control. atlaraugus Creek, N.Y	Dec. 26, 1935 Sept. 16, 1938	Favorable Unfavorable	1835 Sept. 16, 1938 Oct. 4, 1966	2 1 ,285 ,000	Unfavorable Favorable Favorable	Unfavorabledo Favorable	(1) (1) H	*97	90	i		
Vicinity of Gowanda, N.Y., flood controlavallo Pass, Tex. (See Matagorda Bay, etc., and Pass Cavallo. etc.)	June 1,1948	Favorable	Aug. 15, 1940	575 ,000	Favorable	Favorable	. H	*326	77	1		
Vicinity of Gowanda, N.Y., 1100d control avallo Pass, Tex. (See Matagorda Bay, etc., and Pass Cavallo, etc.) ayuga, Buffalo, and Cazenovia Creeks, N.Y., flood control. ayuga Creek and Little River, Niagara Falls, N.Y.	Nov. 30, 1935 Nov. 26, 1946	Unfavorable	Apr. 20,1948 July 8,1952	3 29 ,100		Favorabledo	H H	*246 *204	83 86	2 1		
ayuga Inlet, Ithaca, N.Y. ayuga Inlet, Ithaca, N.Y. ayuga Lake, N.Y., flood control. (See Oswego, Oneida, Seneca, and Clyde Rivers, N.Y.) azenovia Creek, N.Y. (See Cayuga, Buffalo, and												
edar Bayou Pass, Corpus Christi Pass, and pass	Apr. 19,1948		July 10 1875	5,75) Favorable	Unfavorable	··· ⁽¹⁾ ·····	58	50	ī	1875 1887	I, 194 143
edar Bayou, Tex. (see also Brazos River).	Jan. 10,1887	Unfavorable	July 10,1875 Dec. 14,1889 {								1 1890	181
	Dec. 27,1922	Unfavorable	Feb. 18,1930	50,00) Favorable	Favorable Unfavorable Favorable	S	107	71	2	!	

Cedar City, Mo. (See Missouri River.) Cedar Creek, Conn. (See Bridgeport Harbor Conn.) Cedar Creek, Del. (see also Mispillion River to Broadkill Creek). Cedar Creek, Ga. (See Ocmulgee to Flint River watarway.) Cedar Creek, Ill. (See Henderson River, Ill.)	o Jul	y 6, 189	6do	· · · · · · · · · · · · · · · · · · ·			•	Unfavorable	- H	79	54	2	1897	1293
to Tangier Sound, Md., vis Cedar and Flap Cap Creeks.) Cedar Creek, N.J.	. Nov Jan	v. 6, 1912 . 31, 1938	2 Favorable	Dec.	13, 1913	18, 140	Favorable	Favorable	- Н	*826	63	2		
taries, Texas.) Cedar Island Channel, Fla	•						Unfavorable	Unfavorable	H	498	83	-		
Cedar Keys Harbor, Fla	Jan.	. 22, 1883	Favorable	Fah.	20 1004	133, 502	} Favorable						. 1873	721
Boat No. 4 channel	Aug	2, 1905	Unfavorable					Unfavorable	H	128 247	48 48 54 59 63	1 2	}1884 1897	1583
Boat No. 4 channel Northwest Channel Cedar Keys Harbor and Channel, Fla	. Jan. . Jan. . Apr.	22, 1883 1, 1927	do	Feb.	29, 1884	75, 000		do	H. Ex (S. Ex S. Ex	*100 205 128 30	63 51 48	1		1676
Cedar Reys to Clearwater Harbor and Tampa, Fla., waterway (see also Clearwater Harbor). Cedar Point, Ala., and Dauphine Island, shoot	Jan.	22, 1883	do	May	12, 1966		Unfavorable	Unfavorabledo	(1) (1) S. Ex	30	48	1	1884	
Cedar River, lowa_ Cedar River, lowa_ Cedar River, lowa, flood control_ Cedar River, lowa and Minn, (See lowa and	Dec.	4, 1909 22, 1940	do					Unfavorable	. н	696	61	2		·••••
Cedar River, Iowa and Minn.) Cedar River and Harbor, Mich Cedar River, Wash Ledar Run Creek, N.J., from main channel to Wire Creek. entennial Lake, at Vicksburg, Miss., to Missis- sippi River.	May	12, 1926	(5)	- Nov. : Jan.	30, 1881 10, 1883	138, 000 _			S. Ex S. Ex	12	47	!	1882	2119
Cedar River, Wash Cedar Run Creek, N.J., from main channel to Wire Creek.	Feb.	1, 1936	Unfavorable	June 2 May	29, 1965 14, 1959	• 664, 000	Favorable	- (3) - Favorable - Unfavorable	H H (2)	467 *248	69 89	i -	1003	1639
Center Harbor, Brooklin, Maine Center Hill, (See Cumberland River and tribu	Apr. Oct.	19, 1913 2, 1905	Favorable	Nov. 21	1, 1913	125, 000 F	avorable	Favorable	Ю Н	*667	63	2		•••••
taries, Kentucky and Tennessee.) 1 Report not published. 2 Plus cash contribution estimated at according								Untavorable	Н	241	59	1	•	

¹ Report not published.

3 Plus cash contribution, estimated at \$560,000, by local interests for recreational navigation, recreational fishing on breakwaters, and maintenance costs allocated to flood control.

3 Plus cash contribution, estimated at \$35,600, by local interests of 55 percent of the cost.

4 Plus cash contribution, estimated at \$85,000, by local interests of 2.1 percent of first cost of construction.

Abandonment of project recommended.
 Plus cash contribution, estimated at \$121,000, by local interests of 15 percent of first cost of construction of navigation facilities and 50 percent of structural modifications to provide for sport fishing

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

		instians		Surveys				Where	publish	ed		
	Preliminary	examinations				 Recommen-	Congr	essional do	cuments		Ann repor Chie Engin	t of f of
Locality	Date of report	Recommen- dation	Date of report	project cost		dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	sion		
enterport Harbor, Long Island, N.Y	May 14, 1947	Unfavorable	Nov. 1, 1888	\$133, 795	Unfavorable	Unfavorable	(1)		-		1889	210
Florida waterways, central and southern.)			Dec. 3, 1946 2			Fauncable	H	- 146 *103	80 84	2		
Intral Valley reclam: tion project, California Izdakoin River and Lake Chautauqua, James- town, N.Y. Iagrin River and tributaries, Ohio, flood control Iagrin River, Ohio	June 23, 1939	Favorable	Feb. 3, 1942 Sept. 24, 1880	200, 420		Unfavorable Unfavorable	(i) S. Ex H	41 58	46 50	3 1	1881 1887 1889	23 23 23
there's Biver Ohio vicinity of mouth, flood	Jan. 4, 1889	do	Apr. 30, 1965 Dec. 2, 1946	³ 2, 200, G00	Favorable	Favorable Unfavorable	S (¹)	*35	89	1		
hain of Rocks, Mississippi River. (See Missis- sippi River between Ohio River and mouth of Missouri River, Chain of Rocks.) hambers Creek and Yellow Creek, Tenn., flood	Apr. 2, 1940											
control, thambers Creek, Tex. (See Trinity River and tributaries, Texas) Chamita Dam and Reservoir (on Rio Chama). (See Rio Grand and tributaries, New Mexico.) Champlain Canal, N.Y. Champlain Lake, East Alburg to West Swanton,		2 Unfavorable 6do				do	(¹) (¹)					

Observed to the second											
Champlain Lake, N.Y., and Vt. (see also Gordon Landing).	s May 19,1911 Favo	orable No	v. 25, 1912	737 000	Favorable	Favorable					
Unamplain lake NV									62	3	
Narrows (see also Whitehall Harbor). Rouses Point Harbor Champlain Lake to Memphremagog Lake, cana	May 19 1911	do Jan	. 28, 1885	50,000	do		H Ev	. 211	40		
Champlein I should Harbor	June 26, 1915 Hofs	avorable	7. 25, 1912	737, 000	do	Favorable Unfavorable	·· H L^	*1387	48 62		885 2314
Champlain Lake to Memphremagog Lake, cana (see also Lamoille Canal).	1	Doc	1 1005			Unfavorable	Н	*485	64	3	
Champlain Lake, Vt., at St. Albans		Dec	. 1, 1025 Į	306, 419	}	Unfavorable		403	04		
Champlain Lake Vt. South Home to Marie	Nov. 25, 1907 Favo	orable luly	/ 28 1908 ⁽	E 000	Farmer 1 to	_					
				3, 000	Infavorable	- Favorable	. H	*1109	60	2	·
Champlain Lake, Vt., South Hero to Milton Champlain River, N.Y. Champlain Creek, Islip, N.Y. Chanders River, Maine	- Feb. 27, 1883 Unfa	avorable			Ulliavolable	_ Untavorable	. (1)				
Champlain Creek, Islip, N.Y Chandlers River, Maine	Apr. 22 1907 F	.do				Unfavorable	. S. Ex	30	48	1 18	84 2165
	- Apr. 22, 1897 Favo	rable	·			Favorable	- H. EX	66	51	2 18	91 942
	May 16, 1911 Unfa Apr. 17, 1935	ivorable	·	·	***********	Unfavorable	. []	43	55	1 18	97 798
hand Caret B. J. J.	Nov 16 1935	do An-			************	do.	. (1)	265	62	2	
hand Boing Horchester County, Md	Mar. 12, 1948 Favo	rable Doo	. 23, 193/		Unfavorable	do_	(A)				
hapel Creek, Dorchester County, Md hapel Point Harbor, Md. (See Port Tobacco River.)	,	Dec.	. 12, 1930			do.	(1)				• • • • • • • • •
harenton Canal Ia from Pouss T. I							()				
charenton Canal, La., from Bayou Teche to Grand Lake (see also Atchafalaya Bay).		Feb	. 27. 1880	73 196							
nariton and Little Chariton Rivers and trib			,						46	2 18	80 1187
utaries, lowa and Mo.		Mar	. 22, 1965	9, 167, 000	Favorable	Favorable					
hariton River, Iowa and Mo., flood control	Anr 21 1020 Favor								89	1	
horles O 11 /a -	71p1. 21, 1333 Favor	rabie Apr.	22, 1944	1, 610, 300		do	H	*628	70		
harles Cape, Va. (See Franklin City and Cape Charles City.)		may	4, 1949	4 14, 583, 640	**********	do	H	*561	78 81	2	
								301	01	۷	
harles Lake, La., to Sabine River. (See Mississippi River to Corpus Christi, Tex.)											
harles River, Mass. (see also Boston Harbor) harleston Harbor, S.C. (see also Chesapeake	1000	Dec.	17, 1878	85, 000	Favorable			_			
Bay to Charleston, waterway, and Beaufort	lune 26 1964 Favor	rable					S. Ex	29	45	3 187	9 290
laries to Harbor, S.C. (see also Boston Harbor) - larieston Harbor, S.C. (see also Chesapeake Bay to Charleston, waterway, and Beaufort, N.C., to Key West).	Julie 20, 18340	ao	**********							<u>-</u>	
		may	13, 10/1	01. 200			0 -		41		
		Mar.	9, 1878	1, 800, 000 1			0. 5	30		3 187	
		Nov	18. 1898	3, 000, 000 J	Farranti.		5. EX	71	45	2 *187	8 554
	Apr. 9, 1903 Unfav	vorable Oct.	10, 1903	371 616	ravorable	Favorable	H	*83	55	3 189	9 1551
		Daa	21 1000	350,000	•	do.	H	499	58	2 190	
	Dec. 7, 1910 Favora	rable May	15, 1911					*300	61	2	
•		Sept.	9, 1940	1, 820, 000	Unfavorable	do	Π	288	62	2	
And Cooper River, S.C	July 25 1921 a	la 44	15 1005	479, 000	Favorable	Favorable	n	*156	77	1	
	201) LO, 1321 U	10 May	15, 1925 {	314, 000		Favorable	ļн	*249	69		
		Feh	18. 1939 [[]	3, 603, 000	ravorable	do		243	09	1	
			22, 1954	400,000 -	do	do	H	*259	76	1	
Report not published.		Julio	, 1004	200,000 2			S	*136	83	2	
Bureau of Reclamation, Interior Department, r	report.			3 Plus non-	Federal costs of 9	755 000					
· · · · · · · · · · · · · · · · · · ·	-4			4 Rathbun R	eservoir, \$14,554	,000; flood protec	ion at Mystic	lows \$20	:40		

Plus non-Federal costs of \$755,000.
 Rathbun Reservoir, \$14,554,000; flood protection at Mystic, lowa, \$29,640.

8

IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

		[*!	ndicates that maps	s are printed wit	ii reporti								
	Preliminary	examinations		Surveys				Where	publish	ed			
						Recommen-	Congres	sional do	cuments		Ann repor Chie Engin	t of f of	
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page	Ç
Charleston Harbor, S.C.—Continued To Savannah River. (See Beaufort, etc.) Charleston Harbor, S.C., to Alligator Creek or River, waterway between (see also Alligator			_ July 28, 1899 {	\$281, 600 125, 290	}Favorable	_ Favorable	_ н	*84	56	1	1900	1908	
Creek; and Charleston Harbor to McClellan- ville). Charleston Harbor, S.C., to McClellanville (see also Alligator Creek; and Charleston Harbor			_ Mar. 18, 1902 {	206, 910 152, 570 125, 290	}								
also Alligator Creek; and Charleston Harbor to Alligator Creek). Charleston Harbor, S.C., to North Santee River_Charleston Harbor, S.C., to Orangeburg, waterway. (See Orangeburg, etc.) Charleston, S.C., and St. Johns River, Fla., Intra-	Aug. 23, 1919	Unfavorable			Favorable	_ Unfavorable Favorable	. H	524 *114	-	_			
coastal Waterway between (alternate foure			- 0.1041			IInfavorable	_ (¹)						
Via Frederica Aven Gas.). Charleston, S.C., to St. Johns River, anchorage basin at Beaufort, S.C. Charleston, S.C. (Intracoastal Waterway between Charleston and St. Johns River, Fla., between Buckingham Landing and Hilton Head Island, Beaufort County, S.C.). Charleston, S.C., to Savannain, Ga., waterway (see also Beaufort, N.C., to Key West, Fla., and Savannah, Ga., to Beaufort, S.C.).	Apr. 24, 1913		. Jan. 27, 1955 .		*************	do	()						

١	L	ı		
	Ġ			
٩		۰	•	J

Charleston to Columbia, S.C., waterway. Charleston to Winyah Bay, S.C., waterway. Charleston Neck Canal, S.C. Charleston, Northeast River, Md., to Havre di Grace and from Havre de Grace to Red Poin yia Stump Point and Carpenter Point, channe	Feb. 2	9, 1936	Unfavorable					Hataab.l.	4.					
Charleston Neck Canal S.C., waterway	Dec.	9, 1912	Favorable	_ Jun	e 6, 1913	20,000	Favorable	Uniavorable	- (¹)					
Charleston Northeast River Md. to University		z-::::		. Nov	. 27, 1880	439 789	40	ravorable	- H	- *178	63	1		
Grace and from Havre de Crace to Bed Dei	e Jan.	8, 1947	Unfavorable			100,700	uv	Unfavorable	- H. EX	. 19	46	. 3	1881	116
via Stump Point and Carpenter Point, channe	ŗ						• • • • • • • • • • • • • • • • • • • •	omavotable	- (¹)					
Charleston, South Slough, Oreg., channel at														
Charleston, South Slough, Oreg., channel at Charleston, W. Va. (See Kinawha River.)	·	- - 		_ Feb.	12, 1948	349, 300		Favorable						
Charlevoix Harbor, Mich											80	2		
Charleston, W. Va. (See Kanawha River.) Charlevoix Harbor, Mich				. Oct.	28, 1868	198. 044	Unfavorable	. Unfavorable						
				Aug.	. 26, 1873								. 1869	78
	Oct 3	1000	Unfavorable	Dec.	29, 1836	160, 000	do	- Favorable	. []	154	43	2	1873	281
	lan 11	1012	Omavorable					Favorable Unfavorable	· ii	*144 222	54	2	1897	2953
	Dec 6	1020		 -				Unfavorabledo	. Н	222	58 63	Ž.	1904	3048
	Sent 1	1027	Foresta					do	//\	-26	63	1		
	July 21	1047	ravorable	. Feb.	19, 1938	15, 000	Favorable	dodododo	£ >	*163				
The south arm breakwater	Anr 28	1950		·				Unfavorable	<u>~</u>	103	/3	3		
Uliatiotte Marbor inside naccago: C+ lob		, 1007	Omavorable					do	H. Fx	71	<u>7</u> 2		1885	;;;;;
River and Peace River; and Hurricane studies)	. Jan. 12	, 1891	Favorable	_ Feb.	25, 1891	35, 300	Favorable			, .	40	4	1993	
•	Sept. 18	. 1902	do			468, 000	J. 410,4010						1891	*1681
	Dec. 18	, 1912	do					_ Unfavorable	H	181	58	2	1904	1714
				Apr.	6, 1925	100 000		do	H	*121	63	ī		1/17
						22 500	Favorable	- Favorable	(1)					
				Mav	11 1939	22, 300	Unfavorable	Favorable Unfavorable do	H. Com	*1	70	i		·
				July	10, 1947		Omavorable	- niiiavorabie	(!)					
And Roca Granda				Dec.	7, 1971		Unfavorable	- Havorable - Unfavorable	<u></u>	*186	81	1.		
And Boca Grande And Boca Grande Channel	. Sept. 5,	. 1899	Favorable	Nov.	3, 1899	140 000	Favorable	do	(*)					
And Peace Creek				Mar.	13, 1936	59,000	40	uv	M	*76	56	1	1900	2048
And Peace Creek And Peace River, Punta Gorda to Cleveland, Fla. And San Carlos Ray	-F.L14-			Mar.	10, 1880	17, 000	do		H. Com	*95	74	2.		
Fla.	1 eb. 10,	1330	Outavotable	Dec.	22, 1938	, 000 -	Unfavorable	Unfavorable	5. EX	128	46	2	1880	1100
							avoiabio	. Omavoiable	(י)					
Gulf to town of Boca Grande	Aug 1	1010	do					do	u	50				
Gulf to town of Boca Grande Gulf to Punta Gorda, channel	Aug. I,	1310	ravorable	Apr.	4, 1919	100, 000	Favorable	Favorable	H	58 *113	50	1	1887	1258
,	Feb 18	1011	Unfavorable	July	22, 1907	40, 000	Unfavorable	. ravolable	H Com	1113	66 60	1 -		
ort Charlotte, Channel to	Nov. 29	1911	Favorable	Apr.	1. 1912	46.000	Favorable	Favorable				1 -	- - 	
ort Charlotte, Channel to			1 4 7 01 a 0 10	Nov 1	20 1072	10,000	1 4 4 O 1 A D 1 6	. ravorable	н	*699	62	2.		
ro runta Gorga	0-1 14				,		Untavorable	Unfavorable	(1)					
harlotte Harbor, N.Y. (see also Rochester (Charlotte) Harbor, N.Y., and Genesee River	UCT. 14,	1921	do	Nov. 2	24, 1924{									
					22 1920	28,000 _		Favorable	}п	657	68	2 _		
						53, 919 _		Favorable	H	106	20	2		
					15 1900							۷ -	1000	-5454
						31,080					61	2	1003	2424
												ī -		
	Dec. 14,	1925	do		*********		•	do	H	*1109	65	2 -		
1 Report not published.							onal cost to Unite	uv	(')					

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

[*Indicates that maps are printed with report]

				Surveys				Where	publishe	ed		
	Preliminary	examinations		Carroys		Recommen-	Congres	sional do	cuments		Anni repor Chie Engin	t of of
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
						Unfavorable	H	992	64			
arlotte Lake, Tex. arlotte Rivar, Fla. (See Charlotte Harbor.) artiers Creek at Washington, Pa. artiers Creek Basin, Pa. assalowi zka Rivar, Fla.	Aug. 10, 1915 May 25, 1951	Unfavorable Favorable	July 11, 1957 Dec. 24 1963	\$1, 286, 000 2 12, 207, 000	Favorable	Favorable	H	*286 *302	85 88	2		
arti rs Creek Basin, Pa assa'nowi zka Rivar, Fla astaing Bayou, La. (Sae Castaigne Bayou.) atham (Stage) Harbor, Mass	Dec. 15, 1950	Unfavorable	Oct. 27, 1888	15.000	Favorable	Unfavorable Favorable do	. ()	*456	77	i	1889	599
atham (Stage) Haroor, Wass			June 17, 1941	87,000		tinfavorable	. H. Ex	69	53	3	1895	647
aatham Mass. (See Baach Erosion studies.) latham Naw Harbor, Mass. lathamochee River, Ga., and Ala. (see also Naw Orleans, La., to Columbus, Ga.; Apalachi- ccla, Chattanoochee, and Flint Rivers, Ga.	Mar. 4, 1916	Unfavorable Favorable	July 24, 1918 {	1,000,000 to 32,790,000	Juliavolable	do	. Н	*1664	65	3		-
ccia, Chartallouciae, and Ala.; and Inland waterway from New Orleans, etc.). Above Columbus— Thompson Bildes to Columbus. West Point to Bolton West Point to Franklin.			Nov. 19, 1879 Feb. 25, 1882 Dec. 4, 1893 June 5, 1900 Aug. 31, 1962	436, 474 100, 000 1, 149, 914 52, 930, 000	Favorable	Favorable Favorable	H. Ex H	134	46 47 51 56 87	2 1 2 2 2	1880 1882 1891 1901	*1705 1875 1756 1793
Bolow Columbus			July 4, 1853 Mar. 28, 1872	30, 090 464, 000			Н	241	42		1872 1873	699
			June, 1873 Jan. 10, 1883 Sept. 26, 1961	500, 000		Favorable	S	*109 *479	87 76		2	
Walter F. George lock and dam hattanooga, Tenn, and Rossvilla, Ga neat Rivar, Pa. and W. Va heat Rivar, W. Va	Sept. 2, 193 Aug. 31, 1910	Favorable	May 12, 19 9 Jan. 7, 1839	13, 000) Favorable	do Unfavorable		248	58 60	3 :		1909 253

Rowlesburg Reservoir Cheat River and tributaries, West Virginia, floor control. Cheboygan Harbor and River, Mich	u ma	1. 11, 193	8 Favorable	Oct.	15, 1941	29, 230, 000		Favorabledo	H	- *645	89 78	1 2		
Cheboygan Harbor, Mich	Jan	. 31, 193	odo	Oct. Feb.	22, 1936 28, 1949 — 1870			do			75 81	1 1		
				Apr.	2, 1895 14, 1900						41	'	1871 •1895	183 2825
			Favorable	Dec	(56 59	1	1900	4012
To Petosky	. Aug	. 24, 1909	Unfavorable				. Unfavorable	. Unfavorable	-´(;)					·
State Street Bridge to Elm Stheboygan River, Michheesquake Creek N. I	_ Jan. _ May	18, 1923 1, 1931	do	May	/, 1915			Unfavorable	. H . (!)	484	61 64	í		
				Daa	22 1076			uv	_ (1)		46	2	1880	525
hefuncte River Basin, La hefuncte River, La hefuncte River and Bogue Falia, La	May	20, 1929	Unfavorable	. mar. . July	24. 1871			do	B	407		2		
				July	5, 1884	5, 460 1, 856	Favorable	Favorable	H. Ex	54	46	. 2	1880 1884	1181 1283
	May	21, 1923	Favorable Unfavorable					linfavorable	. H. Ex	274	53		1889 1895	1529 1784
From Lake Pontchartrain to Covington	Dec	21, 1938	do	May :	15, 1927 22, 19 57	48.000	ravorable	. ravorable	H. Com	2	70 85		 	
nehalis River and tributaries, Washington, flood control. nehalis River, Wash. (see also Grays Harbor,		10, 1937	Favorable	Dec. 1		003,000		Unfavorable Favorable	H	*494	78	2		
wasn.; and Grays Harbor and Bar and Chehalis River).	lan	30 1931	Unfavorable	Jan. 2	26, 1 88 2	٠, ٥٥٥	. u voi able	Unfavorable	S FX	117	47	1 1	1875 II 1882	^^~
Grays Harbor County line, Washington, flood control. To Montesano			Favorable						(9					
elsea River or Creek, Boston Harbor, Mass.	A	22, 1925	Unfavorable	Mar. 3 Nov 2	31, 1908 22, 1927			Favorable		*1125	60	1 2	891	3297
(see also Boston Harbor).		26, 1892	Favorable	Dec. 2	21, 1894	03,000 _		do	(H. Ex	*315 40 *162	70 52	2 1		790
emung River, N.Y. (See Susquehanna River	Apr.	15, 1936	do	June 1 Jan. 2 July 3	8, 1 9 37			Favorabledodo	H	*272 *24 *350	53 62 75 87	3 1 2	895 	648
and tributaries.)										550	0/	۷.,		

¹ Report not published. 2 Flus non-Federal costs of \$8,068,000. 2 Report of Ohio Valley Flood Board.

⁴ Abandonment of project recommended. 5 Annually.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

			Indicates that maps					Where	publish	ed		
	Preliminar	y examinations		Surveys		Recommen-	Congres				Annu report Chief Engine	t of i of
Local:ty	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Chenango River Basin, N.Y. (See Whitney Point Reservoir, Otselic River, N.Y.—Chenango River Basin.) Chenango River, N.Y. (see also Susquehanna River, at Oxford, N.Y.).	Nov. 4, 1937											
Chena Slough, Alaska. (See Ianana River and Chena Slough, Alaska.) Chene Bayou, La. (see also Crook Chene Bayou). Chequamegon Bay, Wis. (See Ashland Harbor.) Cheraw, S.C. (See Great Pee Dee River.) Cherokee Gorge, Calif. (See Sacramento and Wood Pivers debris control.)	Feb. 5, 1921	do				_ Unfavorable	. (1)					/
Cherokee, Okla., Salt Fork at. (See Arkansas River and tributaries.) Cherry Creek and tributaries, Colorado, flood control. Cherry Grove, Tilghman, Ocean Drive, Crescent, Atlantic, and Windy Hill Beaches, S.C. (See	July 16, 1938	3do	Apr. 19, 1939	\$10, 500, 000	Favorable	_ Favorable	. Н	*426	76	1		-
Hurricane studies.) Cherrystone Channel, Va. (See Cape Charles, Va., and Cherrystone Channel, harbor of refuge.) Cherrystone Creek, Va. Chesapeake & Delaware Canal (see also Inland waterway, Delaware River to Chesapeake Bay, Del. and Md.), at Chesapeake City, Md., anchorage basin).	_ Nov. 28, 188 I Mar. 7, 193	2 Unfavorable 6do				Unfavorable	_ S. Ex _ (¹)	30	48	1	1884	953

tion routes to the seaboard via Youghinghen, River, to connect with Chesapeake & Ohic Canal).	Feb. 3, 1825	Favorable	rt 23 1926	20 275 407		{\$	- 32 - 83	18	2
		la	in. 10, 1828					18 19	2
		ř	b. 8, 1828	4, 335, 699	•••••	н	. 141		
			}	4, 483, 123 4, 008, 005		//	. 141	20	1
	_		ar. 10, 1828 {	4, 330, 991 4, 479, 346	************	н	192		_
For a second	Dec. 1, 1833	Indefinite		4, 479, 346			192	20	1
Youghinghery Pives		QO	h 10 1976	707 000 222		H EV	208	::	
Extension from Cumberland to mouth of Youghiogheny River. Extension of Chesapeake Bay. (See also Hurricane studies.) Atlantic Ocean via Accomack County, Va	luna 12 1921		J. 10, 10/G	25, 000, 000		H. Ex.	208 137	43 44	1 1874 I, 493 1 1876 II, 58
Chesapeake Bay. (See also Hurricane studies.)	. 30110 13, 1031					н	21.0		1 10/0 11, 38
								19	I
Charleston, S.C., via Dismal Swamp Canal, Pasquotank River, Croatan, Pamlico, and other sounds to Winyah Bay (see also Charleston Harbor).		. Ma	r 21 1020		Untavorable	(1)			
other sounds to Winvah Ray (see also		Ma	. 21,1838						
Chincoteague Bay, Va., inland waterway to Delaware Bay, waterways to. (See Boston to Beaufort Waterway and Delaware Bay	June 26, 1936	Unfavorable Feb	. 13, 1939	263, 000 Favorable	Favorable	Н	*268	76	1
to Chesapeake Bay, etc.). Eastern Bay, Md., to waterway across Kent Island. Headwaters of, and Havre de Grace Harbon, Md. (see also Delaware and Chesapeake.	tulu a saas								
Island.	July 8, 1931	do			Unfavorable		•		
Headwaters of, and Havre de Grace Harbor, Md. (see also Delaware and Chesapeake		Jan.	30 1837	E0 000	Olliavolable	- (1)			~
Canal)			,	30, 000					
Lynhaven Roads to Link Horn River North Point Light House and Millers Island, channel between. Plum Point to Hampton Roads, Va Pooles Island, Md. off	Mar. 24, 1928 June 25, 1909 _	Favorable Dec.	10, 1928	110,800 Unfavorable	linfavorable	40			
Plum Point to Hampton Roads, Va	Aug 17, 1938	Unfavorable				. н	349	61	2
Tangier Harbor, Va., to. (See Tangier Har-	Dec. 12,1912 _	do			do	(1)			
Dor.). Tangier Sound via Finall Md					ao	. н	1406	62	3
Tangier Sound via Ewell, Md Report not published.	July 31,1928 (avorable Dec.	7, 1929	102,000 Unfavorable					
				, OIN 4 VOI ADIO	ďΛ	ш	*313	71	

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

				0				Where	publishe	.d		
	Preliminary	examinations		Surveys		Recommen-	Congres	ssional doc	cuments		Annu report Chief Engine	t of of
Locz!ity	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
nesapeake Bay Waterway, Md. (See Middle		Favorable	Nov. 9,1900	\$ 5, 203	Favorable		_ H	87	56	2	1901	1478
River, Dark Head Cleek, Valendard River and Chesapeake Bay Waterway, Md.) hesconnessex Creek, Valent Creek, Pa. (See Susquehanna River and tributaries.) hester Creek, Pa. (See Delaware River.)	Ang. 8, 1900	Lavoranie	Jan. 4, 1881	10, 781			H. Ex	34	46	3	1881	792
hester, Pa. (See Dalaware Months)	May 14, 1947 Jan. 23, 1913	Unfavorable Favorable	_ Jan. 3, 1914			Unfavorable Favorable				_		
County Md., at mouth of Chester River).	Inn 22 1880	do	Dec. 7,1889	12, 750	do	do	H. Ex	- 65 25	51 42		1890 1873	954 817
Crumpton to Jones Landing			. ,	23, 000 7, 000	}		S. Ex	_ 40	46	3	1881	856
Kirbys Landing to Crumpton			Mar. 28, 1972	11.000))	Unfavorable	S. Ex	_ 40	46 62		1881	856
Sprys Landing to Crumpton	Apr. 3, 191	1 Favorable	Dec. 19, 1911	3, 600 276, 125	Favorable	do	Н	- *506	78			
Chester River, Pa. Chestnut Creek, Va., flood control Chestnut Hill, (See Delaware River, N.Y., Pa., N.J., and Del. dams.) Chetco Cove, Oreg	Jan. 22, 193 Sept. 16, 193 Mar. 22, 195	86 Unfavorable 17do 16				Unfavorabledodododo	(1) (1) (1) (1)					
Chetco Cove Harbor, Oreg Chetco River and tributaries, Oregon, flood con trol. Chetco River, Oreg	Sebt. 10, 16	JZ	Dec. 23, 1941 Mar. 4, 1965	190.00	00	do Favorable do	(¹) H, Ex H	*92 817 *21	2 52 7 77 89	2 7 9	2 1893 2 1	3429

Chevreuil Rayou and Tiera Davis at 1	Dec. 29	, 1948	Favorable	Sent	22 1054			Unfavorable	(i)					
Chevreuil Bayou, La Chevreuil Bayou and Tigre Bayou, St. James Parish, La. Parish, La. Cheyenne River, S. Dak. Cheyenne River, S. Dak, and Wyo.	Jan. 9	9, 1891	Unfavorable	. Jept.	23, 1934	* 627, 000		Favorable	. H	*347		;		
Parish, La. Cheyenne River, S. Dak. Cheyenne River, S. Dak, and Wyo.							••••••	Unfavorable	. H. Ex	182	51	5	1901	104
heyenne River, S. Dak. and Wyo	Feb. 20	1929	Favorable for	. Aug.	4,1880	•••••						-	1031	104
		, 1023	Droiect study	may	3, 1930		Unfavorable	Unfavorable	·		:		_ 1880	1478
hicago Harbor, III. (see also Ship channel at-			project study.	Αυσ	3 1959	272 000				-190	72	1		
Chicago Harbor, III. (see also Ship channel, etc., and Calumet-Sag Channel).				Feb.	24, 1830	272, 000 59 722		Favorable	H	*280	86	2		
• • • • • • • • • • • • • • • • • • • •				Dec.	31.1855	138, 516								
				Nov.	15, 1856 30, 1857	*******	•••••••••		S. Ex	77	34	i		• • • • • • • •
				Nov.	15, 1858	1/4 450			U. LA	10	.34	- 3		
				Aug.	2.1864						33	ī		
				June	30, 1865	88, 704								·
				Nov.	30, 1869	900.000	Favorable							
	••			Nov	8, 1874 4, 1878	78,000	-1		n. Ex	114	41	2	1870	99
	May 14	, 1915 .												
	Mar 13	1931	Unfavorable											
		1333 .	00	An-	1 1040			Unfavorable do do	<u>?</u> ?					
Yacht and interchange harbors	Fab C	, 1303	ravorable	Nov.	28, 1911	1, 211, 195		Favorable	(H	*710				
And adjacent harbors	reu. 0,	1937	Unfavorable					Informati.	(H	•237	63	í.	••	
Harbors studies.)							•	Ulliavorable	(1)		·			
HOURO WINE! III					_									
	Dog 12	1017		Nov.	8, 1880 }	27, 750 55, 250			u r					
And its branches	Apr 17	191/ -			·	33, 230			H. EX	95	47	1	1881	2165
mouth to stockyards on South Branch, and		1320 _		A	A 1000						65	2	(4)	
Belmont Ave. on North Branch.	Sept 14	1890 E	avorable	Mug.	9, 1893	700,000		- Untavorable	п	*774	69	2	(6)	
North Branch	оори. 1 1,	1033 [a a n i a n i a	Nov. 1	4, 1899	500,000	Favorable	Favorable Unfavorable	 u				1893	2794
	·			Nov.	8, 1880	285, 000			n	95	56	1	1900	3863
Abovo North A				Apr. 1	7, 1944	28,000		Favorable	H. Ex	95	47	1	1881	2165
Above North Ave	May 12,	1915 ((1)	une	6, 1953		***************************************	Unfavorable	H	•767	78	2.		
						776 000		(6)	H	*1294	64			
						770,000 -		Favorable	H	•294	81			
	May 28.	909	do	Dec. 1	2, 1905	000 000						• -		
West Fork and South Fork	Oct. 27, j	910 L	Infavorable					Unfavorabledo	3	700	59	1 _		
, and could fulk	May 19.1	1915 (•)					do	i	392	61	2 .		
cago to St. Louis, waterway. (See Great														
West Fork and South Fork cago to St. Louis, waterway. (See Great akes to Gulf of Mexico and Lockport, III., etc.)		•	,					(9)	1	1220 *1294	62 64	3		

¹ Report not published.
2 Plus cash contribution, estimated at \$9,000, by local interests of 6.5 percent of first cost of constructing small-boat access channel and portion of dike adjacent thereto.
3 Plus cash, estimated at \$257,000, or equivalent work by local interests of 29 percent of construction for which the United States is responsible.

Report of Col. C. Kaller on encroachments and obstructions.
 Report on fixed bridges.
 Abandonment of project recommended.

* PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

						Surveys				Where	publishe	ed		
	Pre	liminary	examinations			Surveys		- Recommen-	Congres	ssional do	cuments		Ann repor Chie Engin	rt of ef of
Locality	Date o report		Recommen- dation	Date o		Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Alaska (See Tanakaa Injet														
nichagof Island, Alaska. (See Tenakee Inlet and Port Frederick on Chichagof Island, Alaska.)				May :	24. 1875	\$10, 380			. Н. Ех	60 *41	45 51	2	1875 1890	11, 17
Alaska.) nickahominy River, Va	Dec.	19, 1888	Favorable	Nov.	30, 1889	4, 000	Favorable	Favorable Unfavorable	п. сх Н. Ех	217		1 2	1890 1891	130
nickalah Creek, Logan and Yell Counties, Ark nickashay (Chickasaha) River, Miss	July	3, 1958		Feb.	6, 1879	11, 500		Eavorable	H. Ex	95	45		1879 1889	84 146
nickalah Creek, Logan and Yell Counties, Ark nickashay (Chickasaha) River, Miss Mouth to Shubuta				Feb. June	16, 1889 9, 1903	30, 000 2, 500	do	do	H	230 467	58 69	2 1	1904	185
	May June	12, 1926 22, 1951	(2)					Unfavorable	(¹) H	1730	64	2		-
Mouth to Shubuta	Dec.	3, 1915	Unfavorable		2 1000	6, 500	Unfavorable	do	 H	712	61	2		 -
hickasaw Creek, Mobile County, Ala	May	11, 1909	Favorable Sunfavorable	_ Dec.	3, 1303			Favorable			73	1		
hickasawha (Chickasawhay) River, Miss. (See Chickasahay River).								do	Н	<u>*410</u>	75		:	
hickasawhay River and tributaries, Mississippi, flood control. (See also Chunky Creek, etc.)	lital.	E 1022	do	Aug.	11, 1925 {	110, 000	Favorable	Unfavorable	(1)					
hickasawhay River and tributaries, Mississippi, flood control. (See also Chunky Creek, etc.) hico Bayou, Fla. (see also Pensacola Bay into Chico Bay, Fla.) Channel from Pensacola Bay hico Creek, Calif., and adjacent streams hicamuxen Creek, Md.	Dec.	6, 1930	Unfavorable	_ Mar.	31, 1961		, , 	do	(1)	30	48	i	1884	10
hico Creek, Calif., and adjacent streams hicamuxen Creek, Md hicanne River Basin, Mass. (Connecticut River	Dec.	21, 1882	Unfavorable	June	1, 1960	5, 180, 000)	Favorable	H	*434	86		!	

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Chincoteague Harbor, Accomack County, Va. Chincoteague Inlat, Va. (See also Hommacks, Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters	23, 1938 11, 1936 17, 1931 17, 1884 31, 1905 28, 1920 31, 1909	Unfavorabledo do Favorabledo do	Feb. Apr. Dec. Sept Dec. Nov.	6, 1937 6, 1885 1, 1905 2, 1921	25, 700 350, 000 50, 300 246, 400 410, 400	Favorable	dodododododododo	- (1)	*233 107 *538 *128	75 48 59	1 2 1	1885	891
Aug. 3 Feb. 2 Chincoteague Harbor, Accomack County, Va. Chincoteague Inlat, Va. (See also Hommacks, Dec. 3 Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters. Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chino Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries)	31, 1905 28, 1920 31, 1909	do d	Dec. Sept Dec. Nov.	1, 1905 . 2, 1921	50, 300 50, 300 246, 400 410, 400	Favorabledodododododododo	- Favorabledodo	. H. Ex H	107 *538 *128	48 59	2	1885	891
Aug. 3 Feb. 2 Chincoteague Harbor, Accomack County, Va. Chincoteague Inlat, Va. (See also Hommacks, Dec. 3 Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters. Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chino Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries)	31, 1905 28, 1920 31, 1909	do d	Dec. Sept Dec. Nov.	1, 1905 . 2, 1921	50, 300 50, 300 246, 400 410, 400	Favorabledodododododododo	- Favorabledodo	. H. Ex H	107 *538 *128	48 59	2	1885	891
Chincoteague Harbor, Accomack County, Va. Chincoteague Inlat, Va. (See also Hommacks, Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters. Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chincoteague Island, Va. (See San Antonio and Chincoteague Island, Va.) China Creek, Calif., flood control. (See San Antonio and Chincoteague Island, Va.)	31, 1905	dodo	Dec. Sept Dec. Nov.	1, 1905 . 2, 1921	246, 400 410, 400	unfavorable	Favorable Unfavorable	. н. ех. . н . н . (:)	107 *538 *128	59	1.		
Chincoteague Harbor, Accomack County, Va. Chincoteague Inlat, Va. (See also Hommacks, Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters	31, 1909	do	Sept Dec. Nov. July	. 2, 1921	410, 400	Unfavorable	Unfavorable	. н . (:)	*128	59 67	2		
Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters. Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chinc Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries)	31, 1909	do	July	27, 1962 6, 1910	410, 400	Omavorable	- Unfavorable	· (}					
Md., and Franklin City, Va.). Franklin to Chincoteague Island. For breakwaters. Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chinc Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries)	31, 1909	do	July	6, 1910	55, 000) Enwarable	ao	. (1)					
Franklin to Chincoteague Island. For breakwaters				١	622 752								
For breakwaters Oct. 3 Chincoteague Island, Va. (See Assateague Channel, Accomack County, and Chincoteague Island, Va.) Chino Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tribut					61 250	fravorable	do	. н	1094	62	3		
Channel, Accomack County, and Chincoteague Island, Va.) Chino Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries)			Feb.	13, 1880 {	97, 500	<u> </u>		C F	••		_		
Channel, Accomack County, and Chincoteague Island, Va.) Chino Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries.)	30. 1888	Favorable	Eah	4 1900	143, 750]		. S. EX	90	46	2	1880	742
Chino Creek, Calif., flood control. (See San Antonio and Chino Creeks; and Santa Ana River and tributaries)	00, 1000	144014016	reb.	4, 1690	3, 782, 688	Favorable	_ Favorable	. H. Ex	207	51	1	1890	980
River and tributaries)													
Chinook, Wash, (See Columbia River Wash													
Chipola River, Ala. and Fla Chipola River, Fla Mov. 11 May 18			Oct.	7, 1948 -			. Unfavorable	(1)					
			Aug.	20, 1881 30 1889	21,000			Š. Ex	11	47	i	1882	1305
Nov. 11	11, 1897 18 1011	Indefinite			7,300	ravulaule	. ravorable . Unfavorable	- 	101			1889	1416
Nov. 11 May 18 Upper	.0, 1311	Omavorable	Dec	12 1967			do	Н	463	62	2	1898	1423
Оррег Мау 12	12, 1926	(3)		, 100/		Unravorable	(a)	(<u>)</u>					
1 Report not published. 2 Abandonment of project recommended.					3 Favorabl		/	**	467	69	ı,		

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IMPROVEMENT OF RIVERS AND HARBORS—Continued

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

				Surveys				Where	publishe	ed		
	Preliminary	examinations		Surveys		- Recommen-	Congre	essional do	cuments		Ann repor Chie Engin	rtof fof
Locality	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
nippewa Harbor, Isle Royale, Mich. (See Coasts of the Great Lakes, harbors of refuge for light- draft vessois.) hippewa River, Mich. (See Titlabawassee and						Hafayorahla	н	*171	72	1		
nppewa River, Mis. (See Articolariasso and Chippewa Rivers.) nippewa River, Wis. (see also Mississippi River reservoirs). Below Chippewa Falls	3di) 20,10		Jan. 30, 1875	\$167,645			11. [^	- 68	43 44 49	1	1875 1876 1887	707 1726
Causes of overflow	Dec. 7,1886 July 13,1939	Unfavorable Favorable	Feb. 4,1896 Nov. 3,1941 Mar. 12,1969	136,000	Unfavorable Unfavorable	Favorable Unfavorable	H H (¹)	*245 625	54 77	*2	1896	1864
hitto Bogue, La hocolate Bayou, Tex	_ June 21,1883 _ July 24,1899	Unfavorable Favorable	June 24, 1889 Jan. 24, 1900	55, 000	Favorable	Favorable do		*445	56 89 80 76	1 2	1900	240
hecolate Bayou and Bastrop Bayou, Tex hocolate Bayou, Bastrop Bayou, and Oyster Creek, Tex. hoctaw Bayou, La. (see also Jordan River and	Nov. 23, 1912	Unfavorable	Apr. 28, 1939	78, 000		do Unfavorable	H H	*337 *19	. 63	1		
tributaries). hoctawhatchee Bay, Fla. (see also East Pass Channel into Choctawhatchee Bay, Fia.): And entrance through East Pass. Channel to Santa Rosa, Fla. East Pass Channel to the gulf. Mouth of Alaqua Bayou. Small boat channel at Bay Bridge to Free Control of Alaqua Bayou.	June 20, 1923 - Nov. 22, 1930	dodo	- Sept. 15, 1931	11, 500 7 286) Unfavorable) Favorable	do	(¹) (¹)	209	 70		 1	
East Pass Channel to the gulf Mouth of Alaqua Bayou	June 2, 1927 Sept. 16, 1893	Unfavorable	_ Jan. 25,1928 {	, 600)	Favorable Unfavorable		. 86	52 		2 189	3 17
Small boat channel at Bay Bridge to Free port, Fla. (See La Grange to Bayou, Fla.) Waterway connecting Basin Bayou	- Mar. 29, 1950		Mar. 23, 1956			do	(i)					

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Choctawhatchee Bay and Santa Rosa Sound Fla., bar at. Junction of. Choctawhatchee Bay at Point Washington, Fla. to the Gulf of Mexico. Choctawhatchee Bay to Pensacola Bay, Fla. Intracoastal Waterway	Jun Nov	e 12, 191	1 do				Unfavorable					. 1893	174
											2		
Choctawhatchee Ray to Pensacola Roy Fla				July 20, 1304		_ Unfavorable_	do	. (1)					
Intracoastal Waterway.	,			Dec. 9, 1946			do	(1)					
to the Guil of Mexico. Choctawhatchee Bay to Pensacola Bay, Fla. Intracoastal Waterway. Choctawhatchee Bay to Pensacola Bay, Fla., narrows in Santa Rosa Sound. Choctawhatchee Bay to West Ray (of St	,			Apr. 23 1934	15 000			- (+)					
Choctawhatchee Bay to West Bay (of St. Andrews Bay), Fla.	Nov	10 102) Fourth!	D 40 40	13,000		• • • • • • • • • • • • • • • • • • • •	_ H. Com	*42	73	2		
Andrews Bay), Fla.		10, 1330	, Lavolanie	Dec. 19, 1931	1, 770, 000	Favorable	Favorable	_ H	*259	72			
Choctawhatchee River, Fla. and Ala. (see also St. Andrews Bay and Holmes Creek and St.	Jan.	28, 1845	do								1		
George Sound, etc).				Apr. 6, 1872	34, 332	Favorable	}		·				
				Apr. 0, 18/2	f 52, 291	Unfavorable	· ·	. S. Ex	63	42		1872	
				Mar. 3, 1880	78, 500	do	,						
	Dec.	23, 1907	Unfavorable	Jan. 30, 1889	57, 125	do	Unfavorable					1880	108
	Nov.	21, 1913	do				Unfavorable do	Н	876	60	i-	1889	1423
	Dec	13 1950	uv				ao	. Н	*688	63	Ž		
Flood control		,			2 240 400	·	dododododo	(1)					
10 Pensacola Bay. (See St. George Sound				0,1001	138, 900	Untavorable	do	H	*242			•••••	
noctawhatchee River and tributaries, Fla. and Ala., flood control. jokoloskee Bay, Fla. (See Barron River and Chokoloskee Bay.)							. Favorable	H	*163	71	2.		
nopawamsic Bay, Va., mouth					7 000								
" (see also black walling				1 00 4444				S. Ex	35	42	•	1872	
													707
Caroline County, Md	Nov. 2	27, 1937	Unfavorable	Dec. 21, 1927	0, 300	Favorable	Favorable	H	*188	70	í	1880	634
owan River, N.C.	· - - ·			. Nov. 12, 1969		Unfavorable	_ ravorable _ Unfavorable do	::					
And Blackwater Crook (Divor), Vo	Dec. 2	1, 1911	Unfavorable	- Juli. 42, 10/9	81,450 _	do	1002010102	H. Ex	68	45		Ī879 · · ·	
owcillia River, Calif. (See San Joaquin				- Julie 17, 1938	135, 000	Favorable	Favorable		1114	62	3		
River and tributaries.) owchilla River Basin, Calif- ristiana River, Del., Newport to Christiana Report not published. For levee to protect Elba, Ala.									*101	76	1		
riotions Division D. C. M. Curri				Jan. 17, 1962	86 944 000								
istiana River, Del., Newport to Christiana	Mar 1	6 1 02 2	Eavarable.										

Secretary of the Interior to make arrangements for repayment of the costs allocated to irrigation estimated at \$6,341,000.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

		1 '	Indicates that maps					Whore	publish	ed		
	Prelimina	y examinations		Surveys		- Recommen-	Congres	sional do			Anni repor Chiel Engin	rt of f of
	Date of report	Recommen- dation	Date of report	Estimated project cost	Recommen- dation	dation of the Chief of Engineers	House or Senate	Num- ber	Con- gress	Ses- sion	Year	Page
Locality			7 1001	\$206.701	Favorable		_ H. Ex	34	46	3	1881 1891	771 *1138
christiana River and Wilmington Harbors, Del. (see also Brandywine River and Wilmington Harbor).	N 1C 100	4 Favorable	Aug. 15, 1895	392,000 303,430 1 269,494	do Unfavorable	Favorable Unfavorable	-}H	66	54 61	2	1896	973
Harbor). Christiansted Harbor, St. Croix, V.I Chuckatuck Creek, Va	May 9, 190 Mar. 23, 192	9 Unfavorable 1do	Sept. 25, 1928	261 000	Unfavorable	do do do Favorable	(1) (1)	*771	80		1220	968
	July 13, 19	16 Favorable RR Unfavorable	June 21,1948			Unfavorable	_ (1)					
and a later to the second and an	lan 22 19	36 Favorable	Jan. 11,193/			_						
chugae Point, Dauphin Island, Ala., to Indian Mounds and channel to. Chunky Creek, Chickasawhay River, and Pascagoula River, Miss. Church and Bohicket Creeks, and Church Flats,	Mar. 24, 19 Oct. 18, 19	39do 51	July 26, 1962	2 5, 740, 000		do do Favorable	(1) (1) H	*549 *1156	87 65	2 2		
				5, 500			H	154	20	1		-
Ga. waterway). Churchs Cove, Little Compton, R.I. Cibolo River, Tex. (See Antonio River and tributaries.)	(3)		Sept. 15, 1931 Mar. 31, 1947						74	1		
tributaries.) Cimarton River, N. Mex., Kans., and Okla., flood control. Cincinnati, Ohio. (See Licking River, harbor of refuge and Ohio River; and Mill Creek Valley in Cincinnati, Ohio.) Citadel, South Carolina Military Academy, Ashley River to (see also Ashley River, S.C.).	Nov. 12, 19					Favorable			74	. 2		

- 2	
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Clackamas Rapids. (See Williamette River at.)				Feb. 8, 183	150,000	Unfavorable	- (¹)				
City Island, New York City, breakwater	Dec	:. 22, 188	8 Unfavorable_			Unfavorable	. ა	225	25	2	
Md., at Claiborne-Annapolis Ferry.) Claiborne Harbor, Md Clallam Bay, Wash Dlam Creek, N.J. (See Absecon Inlet, N.J.) Darendon and Lower White River, Ark., dam-	•					Omiavorable				18	9 2523
Harbor, Ma	Nov	7, 1894 9 1 1894	4do			4.					
Iallam Ray Wash	Juli	0 1, 1033	ravorable	Oct. 26, 1899	17, 490 Favorable	Favorable	. H. Ex	61 81	53 56 71	3 189	
lam Creek, N.J. (See Absecon Inlet N.L.)	. Jan.	. 1, 1895	Unfavorable	may 27, 1930	12, 125do	do	S	*157	26 71	1 190	0 1677
larin (1984, N.J. (See Absecon Inlet, N.J.) larendon and Lower White River, Ark., damages from backwater of Mississippi River. larion River, Pa				F-1 1 100			. H. Ex	226	53	3 189	3456
ages from backwater of Mississippi River.				red. 1,1892 Mar Q 1802	1 000 000	Unfavorable	H. Fx	118	52		
larion River, Pa				Oct 29 1991	1,000,000	Favorable	H. Ex	163	52 52	i	2
lack Crook or Divers D. O.	Dec.	12, 1895	Favorable	001. 20, 1001	6,000,000 Junfavorable_		S. Ex	18	47	1 100	1000
lark Creek or River, S.C. (see also Lynch River) larke River, Ky. (Tennessee River and tribs.) lark Fork. (See Columbia River and tributries) lark Fork of Columbia River from international boundary to mouth of Rig Rlarkford Diver	- Feb.	4, 1887	do	Sept. 5.1887	7 500	Favorable	H	187	54	1 100	1938
larke River, Ky. (Tennessee River and tribs)	may	12, 1926	(4)		7, 300	·····	-,,			1 188	7 1100
lark Fork. (See Columbia River and tributhries.))			. May 30, 1972	Unfavorable	Unfavorable	n	467	69	1	
boundary to mouth of Big Blackfoot Divisional	Mar.	. 21, 1891	Unfavorable				(7				
Mont fore also by						lintavorable				180	2250
ark Fork River, Idaho, Albany Falls to Lake	Oct.	14, 1915	do							103	3230
ark Fork River, Idaho, Albany Falls to Lake Pend Oreille, ark Hill Reservoir, GJ. (See Savannah River,		•				do	H	1095	64	1	
Ga., S.C., and N.C.) ark Point, New Bedford, Mass. (See Beach Frasion studies)									04	1	
OIR POINT, New Redtard Maco (Cas Dans)											
ork River, Oreg (See Lewis Diver -4-)											
ork River, Oreg. (See Lewis River, etc.) orksburg, W. Va. (See Monongahela River											
ark River, Oreg. (See Lewis River, etc.) arksburg, W. Va. (See Monongahela River											
ark River, Oreg. (See Lewis River, etc.) arksburg, W. Va. (See Monongahela River, etc., West Virginia.) rrks Point, Alaska (Southwestern Alaska)				. June 2, 1965	Unfavorable	4.					
ark River, Oreg. (See Lewis River, etc.) arksburg, W. Va. (See Monongahela River, etc., West Virginia.) arks Point, Alaska (Southwestern Alaska)	June	7, 1939	Unfavorable	. June 2, 1965	Unfavorable	do	(·)				uzu t a
ork River, Oreg. (See Lewis River, etc.) rksburg, W. Va. (See Monongahela River, etc., West Virginia), rks Point, Alaska (Southwestern Alaska) rksville, Mo. (See Mississippi River.) rksville, Tenn., Cumberland River at, flood ontrol.	June										
ark River, Oreg. (See Lewis River, etc.) arksburg, W. Va. (See Monongahela River, etc., West Virginia.) arks Point, Alaska (Southwestern Alaska)	June										
ork River, Oreg. (See Lewis River, etc.) rksburg, W. Va. (See Monongahela River, etc., West Virginia), rks Point, Alaska (Southwestern Alaska) rksville, Mo. (See Mississippi River.) rksville, Tenn., Cumberland River at, flood ontrol.	June								 65	2	
ark River, Oreg. (See Lewis River, etc.) arksburg, W. Va. (See Monongahela River, etc., West Virginia.) arks Point, Alaska (Southwestern Alaska)	June								 65	2	3506
ark River, Oreg. (See Lewis River, etc.) arksburg, W. Va. (See Monongahela River, etc., West Virginia.) arks Point, Alaska (Southwestern Alaska)	June				13, 000 Favorable	do	(1) H H H		65 53 55 59	2	3506
Erosion studies.) Ark River, Oreg. (See Lewis River, etc.) Arksburg, W. Va. (See Monongahela River, etc.) Arks Point, Alaska (Southwestern Alaska) Arks Point, Alaska (Southwestern Alaska) Arksville, Mo. (See Mississippi River.) Arksville, Tenn., Cumberland River at, flood control. Isson Point Harbor, N.Y. Artskanie River, Oreg. Report not published. Plus non-Federal cost of \$1,000,000.	June					do	(1) H H H		65 53 55	2	3506

For construction of combination dredge and snagboat for maintenance work on Lewis, Cowlitz, and Clatskanie Rivers.

PRELIMINARY EXAMINATION AND SURVEY REPORTS MADE TO DEC. 31, 1974—Continued

Locality	Where pu	Wher	published		
Date of report Recommendation Page of report Page of Pa	essional docur	Congressional d	cuments	Annual report of Chief of Engineers	_
Classkanie to the Columbia River May 22, 1915 Got. 26, 1927 Unfavorable	Num- ber g		Con- Ses- gress sion	Year Pag	ie.
Control Cont	_ 698	H 698	64 1		
Aug. 26, 1935 { 313, 100 } 184, 000 } do (1)	71	H 71	59 1		
Clear Creek, III. (See Reeds Creek, Marys River, Kincaid Creek, and Clear creek.) Unfavorable (1) Unfavorable (1)		(¹) (¹)			
Clear Creek, III. (See Reeds Creek, Marys River, Kincaid Creek, and Clear creek.) Clear Creek at Pierce City, Mo., Arkansas Feb. 16, 1950	*264 *319	H*319	77		
Clearfield Creek, Pa. (See Susquehanna River	*449 *351	H*444 H*35	56 90	1 1900 23	385
And Big Pass, Fla Dec. 23, 1946 Unfavorable H. Ex.	*293	H*29	86	1 1884 2: 1 1887 1 2	323