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Matthes, Gerard Hendrik, 1874-1959.
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Gerard Hendrik Matthes was born on March 16, 1874, in Amsterdam, Holland. He and his twin brother, Francois Emile, travelled to the United States in 1891 to attend M.I.T. In 1895 Gerard became a draftsman and instrumentman with Alexis H. French, the Town Engineer for Brookline, Massachusetts. Gerard became a naturalized citizen in 1896. His appointment with the U.S. Government as Hydrographic Aid, U.S. Geological Survey in 1897 started an association with government service that lasted forty-five years. Francois became the Chief Topographer for the U.S. Geological Survey. Gerard Matthes' projects include an investigation of the sources of pollution and power potential of the Potomac River in 1897. In 1898 he was sent to southeastern Colorado to make plane table surveys of reservoir sites and learn about irrigation practices. He did a topographical survey of reservoir sites and much mapping of Colorado and Arizona in 1899.

In 1901 Matthes went on an expedition to Sumatra to observe a solar eclipse. In 1902 he was in charge of the computation division of the Water Resources Branch and helped in designing the first hydroelectric plant on the Susquehanna River. Also in 1902, he was selected by the Secretary of the Department of the Interior as the first Commissioner of the Reclamation Service. The need for construction of public works in the Oklahoma Territory brought him to Oklahoma in 1903 as the municipal engineer. In 1904 he married Mary Bewick. The first irrigation storage dam was completed by the Reclamation Service in 1906. Matthes resigned from the Reclamation Service and accepted a position with the Colorado Power Company. He was appointed Division Engineer for the Pennsylvania Water Commission in 1914, and was in charge of flood inventory. In 1915 he joined the staff of the Miami Conservancy District in Ohio.

Congress authorized the first water resources investigation for improvement of navigation, control of floods, development of hydroelectric power, and utilization of mineral resources in 1920. Along with the Tennessee Valley Authority Matthes first used aerial photography in this investigation. In 1923 he became a consultant for Fairchild Aerial Surveys, Inc. in New York City. He was appointed to the Committee on Photographic Surveying of the Board of Survey and Maps of the Federal Government in 1925.

As a U.S. Army Engineer Matthes was sent to Norfolk, Virginia in 1929. Also with General Ferguson, President of the Mississippi River Commission, Matthes, as Principal Engineer, took an inspection trip of the Mississippi River in 1932. In 1936 the largest hydraulic river model was built by the Waterways Experiment Station and in 1942 Matthes was made first Civilian Director of this department. He was made Water Consultant for President Roosevelt's National Resources Committee in 1936. As a consultant about flood control to the U.S. Army, Matthes was sent to Dennison, Texas in 1943. Also in 1943 Matthes was made an honorary member of the American Society of Civil Engineers who also awarded him the Norman Medal in 1950. In 1945 he retired from federal service. Until 1953 Matthes remained president of the Rocky Mountain Hydraulic Laboratory at Allenspark, Colorado. He also continued to be a consultant for private and corporate projects until he died on March 3, 1959.

Summary: Professional papers of Gerard Hendrik Matthes, a hydraulic engineer and member of the U.S. Geological Survey, include material about projects investigating the Potomac, Susquehanna, Mississippi, Atchafalaya, Tennessee, Missouri, California, Ohio, and other rivers worldwide. Matthes was concerned about water policy, water conservation, and the legal aspects of river and flood control.

The collection includes clippings, pamphlets, notes, reports, maps, surveys, blueprints, traverse books, binders, printed materials, volumes, photographs, and lantern slides on these subjects as well as on dam design, canals, irrigation, river geology, revetments, spillways, hydraulic design, and natural resources. Personal papers include Matthes' writings and notes on topics such as entomology and paleobotany, as well as biographical information, scrapbooks, diaries, and photographs.

Indexes: Unpublished guide.

Cite as: Gerard Hendrick Matthes. Papers, #3017. Department of Manuscripts and University Archives, Cornell University Libraries.

1. Ferguson, General. 2. French, Alexis H. 3. Matthes, Francois Emile. 4. Matthes, Mary Bewick. 5. American Society of Civil Engineers. 6. Colorado Power Company. 7. Fairchild Aerial Services. 8. Geological Survey (U.S.). 9. Ohio Miami Conservancy District. 10. Pennsylvania. Water Commission. 11. Rocky Mountain Hydraulic Laboratory. 12. Tennessee Valley Authority. 13. United States. Army. 14. United States. Department of the Interior. Reclamation Service. 15. United States. Board of Survey and Maps. Committee on Photographic Surveying. 16. United States. Mississippi River Commission. 17. Canals. 18. Dams. 19. Hydraulic engineering. 20. Eclipses, Solar--1901. 21. Irrigation. 22. River surveys. 23. Water-power. 24. Atchafalaya River. 25. California River. 26. Mississippi River. 27. Missouri River. 28. Ohio River. 29. Potomac River. 30. Susquehanna River. 31. Tennessee River. 32. Blueprints. 33. Diaries. 34. Lantern slides. 35. Maps. 36. Photoprints. 37. Scrapbooks. 38. Surveys.

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hydraulics engineer

Professional papers of a hydraulics engineer and member of the

US Geological Survey include material about projects investigating the Potomac, Susquehanna, Mississippi, Atchafalaya, Tennessee, Missouri, California, Ohio, and other rivers worldwide. Matthes was concerned about water policy, water conservation, and the legal aspects of river and flood control. The collection includes clippings, pamphlets, notes, reports, maps, surveys, blueprints, traverse books, binders, printed materials, volumes, photographs, and lantern slides on these subjects as well as on dam design, canals, irrigation, river geology, revetments, spillways, hydraulic design, and national resources. Personal papers include Matthes' writings and notes on topics such as entomology and paleo-botany, as well as biographical information, scrapbooks, diaries, and photographs. (3017)

MATTHES, GERARD HENDRIK, 1874-1959. Papers, 1822-1957.
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CHRONOLOGY

Gerard Hendrik Matthes was born March 16, 1874, one of twins, in Amsterdam Holland. Both he and his brother, François Emile, travelled to the US in 1891 to attend M.I.T. In 1895 Gerard became a draftsman and instrumentman with Alexis H. French the Town Engineer for Brookline, Massachusetts. Gerard became a naturalized citizen in 1896. His appointment with the US Government as Hydrographic Aid, US Geological Survey in 1897 started an association with government service that lasted forty-five years. François became the Chief Topographer for the US Geological Survey.

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Gerard Hendrik Matthes, 1874-1959. Papers.

Series title listing

<u>Box #</u>	<u>Title</u>	<u>Folder #'s</u>
1	Niagara Falls St. Lawrence Seaway Atlantic Coast Canada	1-4, vols. 5-11, vols. 12-25 26-29, vols.
2	Pennsylvania Tennessee	1-8, vol. 9-25, vols.
3	Colorado Missouri Mississippi	1-12 13-21, vols. 22-33, vols.
4	Mississippi	1-31
5	Mississippi	1-40
6	Louisiana Texas Arizona Oregon/Washington California	1-16, vol. 17-31 32-35 36-41 42-44
7	California Ohio	1-19, vols. 20-42, vols.
8	Mexico Columbia Holland	1-16 17-20, vols. 21-34, vols.
9	African Continent China Conserving water (water policy) Dam designs	1-9, vols. 10-16, vols. 17-18, vol. 19-35
10	Dam designs Dams	1-19 20-52, vol.
11	Dams Canals	1-38, vols. 39-61, vol.
12	Canals Irrigation Piers Conduits	1-24 25-33, vol. 34-45, vols. 46-47
13	Pipes Floodways Floods	1-10 11-23 24-42, vols.

Gerard H. Matthes. Papers.

<u>Box #</u>	<u>Title</u>	<u>Folder #'s</u>
14	Floods Floods in Mid-West	1-31, vols. 32-40, vol.
15	Floods in Mid-West Floods in New England Floods in Europe Floods in Near-East and India Flood Control Hurricanes, earthquakes, tornados	1-2, vols. 3-17 18-29 30-42 43-45 46-54
16	Hurricanes, earthquakes, tornados Droughts Droughts River geology Geological data	1-17 18-26, vol. 27-34, vols. 35-41
17	Tides and tidal rivers Deltas and river mouths Levees	1-14, vols. 15-21, vols. 22-28, vols.
18	Tetrahedral revetments Revetments Concrete/steel/wood Spillways	1-2 3-15, vols. 16-27, vols. 28-33
19	Spillways Hydraulic design data	1-8, vols. 9-36, vols.
20	Model experiments Dredging Siltling of Reservoirs Soil Mechanics Groundwater	1-21, vols. 22-27 28-29, vol. 30-43 44-45
21	Groundwater Meteorology National resources	1-5, vols. 6-15, 1 vol. 16-29, vols.
22	National resources Legal papers	vols. 1-32, vols.
23	Surveying, mapmaking, and blueprints (legal-sized)	1-26, vols.
24	Surveying, mapmaking, and blueprints (legal-sized)	1-38
25	Surveying, mapmaking, and blueprints (legal-sized) Legal sized material - New Zealand Rivers Australia Misc. o/s volumes	1-18 19-23 24-25

Gerard H. Matthes. Papers.

<u>Box #</u>	<u>Title</u>	<u>Folder #'s</u>
26	Traverse books Notebooks Diaries	
27	Bound reports - Mississippi	
28	Bound reports	
29	Bound reports	
30	Matthes' Writings Matthes' Miscellaneous notes, etc.	1-54 55-58
31	Matthes' Miscellaneous notes, etc. Notes on hobbies and interests Personal info. (vita, job descriptions of projects), etc. Françoise Matthes' material	1-30 31-43 44-48 49-52, 1 vol.
32	Volumes - reports scrapbooks - clippings, notes	30 3
33	Scrapbook - postcards Certificate Glass encased photo o/s photo - aerial survey Colorado River	1 vol. fldr. 1 fldr. 2 fldr. 3
34	Photographs	1-20
35	Photograph albums	2 vols.
36	Photograph album	1 vol.
37	Photograph album	1 vol.
38	Bound photographs Negatives List for slides Samples	1-13 14 15 16
39	Lantern slides	7 sm. boxes, 1 env.
40	Dutch Photos: Du Celliee Loose Photos (from album) Colorado Photo Album	1-6 7
41	Files and Records	1-17
42	Photographs - Locks and Holland	

MATTHES, GERARD HENDRIK, 1874-1959. Papers, 1822-1957.
33.9 c.f.

#3017

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
1	Niagara Falls Project -	
	clippings	1-3
	pamphlets	4
	vols.- <u>Preservation and Improvement</u> <u>of Niagara Falls and Rapids, 1911 and</u> <u>1931, and 1906-11</u>	
	St. Lawrence Seaway Project -	
	clippings	5
	blueprints, studies labelled-	
	Ice Studies	6
	Early Studies of NY, 1930	7
	Early Studies for Col. Ferguson, 1932-33	8
	St. Lawrence River Project	9
	Construction Projects	10
	pamphlets	11
	5 vols. U.S. printed materials	
	Atlantic Coast Rivers Projects -	
	Savannah River	12
	Santee and Yadkin-Pee Dee Rivers 308	13
	Cape Fear and Neuse Rivers, N.C.	14
	Dan and Roanoke Rivers	15
	Roanoke and James River Maps, Va., N.C.	16
	James River	17-18
	Ho.Doc. 308 Survey and Report on James River, Va.	19
	James River-flood clippings	20
	Potomac	21
	Potomac-clippings	22
	Alabama and Georgia	23
	Alabama and Georgia and Appalachian Mnt. Streams-flood clippings	24
	Florida	25
	Canada and Red River of the North Project	
	Canada	26-27
	Canada-clippings	28
	Canada-maps	29
	2 vols. Engineering Journal, The	

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
1	Canada and Red River of the North Project	
	vols. continued-	
	Shawinigan Water and Power Company	
	Quebec, Canada	
2	3 vols. Regional Planning-Red River of the North, and 2 Interim Reports of the Canada Dept. of Agriculture	
	Pennsylvania Projects -	
	Pennsylvania-clippings	1
	Pennsylvania-pamphlets	2
	Pennsylvania-papers	3
	Pennsylvania Rivers	4
	Erie, Pennsylvania	5
	Conemaugh River Floods, Johnstown Pennsylvania	6
	Susquehanna-clippings	7-8
	1 vol. Pennsylvania Hydrology, 1939	
	Tennessee Projects -	
	Tennessee River-clippings	9-10
	Tennessee River from Watkin's Dept., 1930, Ho.Doc. 328-71-2d	11
	Wilson Dam at Muscle Shoals, Tennessee, 1924	12
	Report of the Consulting Board, May 29, 1936	13
	T.V.A.-correspondence, papers, reports	14-15
	3 vols. Tennessee Valley Authority printed reports	
	Tennessee River and T.V.A.	
	T.V.A.-clippings	16
	T.V.A.-pamphlets	17
	T.V.A.-maps	18
	T.V.A.-papers	19-20
	Tennessee River Floods	21
	Tennessee River-papers	22
	Tennessee River Canalization	23-24
	T.V.A.-flood board	25
	3 vols. T.V.A. printed material	
3	Colorado Projects -	
	Colorado-clippings	1

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
3	Colorado Projects -	
	Colorado-pamphlets	2-3
	Colorado-papers	4
	Colorado State	5
	Upper Colorado River Project-Echo Park Dam	6
	Upper Colorado River (Grand River) Hydrographs	7
	Lower Colorado River Project-Imperial Valley-Salton Sink	8-9
	Floods-Colorado River-Imperial Valley-Yuma Problem	10
	Pueblo Colorado-Arkansas River Floods	11
	Cherry Creek Flood in Denver, May 1935-clippings	12
	Missouri Projects -	
	Missouri River-clippings	13-14
	Missouri River Flood of 1952-53- clippings	15
	Missouri River Studies	16
	Missouri River Floods	17
	Missouri River and Tributaries- Kansas River etc.-clippings	18
	Missouri River and Tributaries- Kansas River etc.	19
	St. Louis-Cahokia Cr., Des Peres River, Meramec River	20
	Missouri-Kansas Floods-clippings	21
	2 vols. printed material U.S. Gov't.	
	Mississippi Projects -	
	12 vols. printed material	
	Mississippi River Geology-clippings	22
	Mississippi River Geology-papers	23-24
	Mississippi River Geology-maps	25
	Map of Glaciated Areas in North America	26
	Clay Survey-Compacted river silt deposits in "Ox-Bow" lakes and abandoned channels-maps	27
	Mississippi River-clippings	28
	Mississippi River	29-30
	Mississippi River Cut-Offs	
	Cut-off Data	31-33

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
4	Mississippi River - Cut-offs -	
	Cut-offs - text	1
	Mississippi River slope studies, 1936	2-3
	Cut-offs literature-text	4-5
	Cut-offs Misc.-clippings	6
	Cut-offs Misc.-maps	7
	Cut-offs Misc.-papers	8-13
	Cut-offs Misc.-report	14
	Mississippi River Cut-offs data	15
	Slough cut-offs-clippings	16
	Slough cut-offs-maps	17
	Slough cut-offs-papers	18-19
	River Hydraulics-misc. notes	20
	Mississippi River Discharge Measurements -	
	Yazoo and Yalabusha Rivers-maps	21
	Yazoo and Yalabusha Rivers-notes	22
	Mississippi River Flood of 1937 -	
	Yazoo, 1937-clippings	23
	Ohio River and Cairo-South, 1937- clippings	24
	Ohio River and Cairo-South, 1937- papers	25
	Mississippi River Flow-Lines -	
	Profiles-clippings	26
	Profiles-papers	27-29
	Profiles-Cairo to Head of Passes, 1944-maps	30
	Mississippi River Hydrographic Surveys	
	Maps and Surveys- The 1913 Survey, Cairo to Gulf of Mexico-compiled 1933, Hydrographic Survey-Mississippi River 1912-15, Ex. of Hydrographic Survey- Mississippi River 1937, Clay fills 1947, Intra Coastal Waterway 1954.	
	Misc. maps and surveys	31
5	Mississippi Projects -	
	Mississippi River-Early course, scale 1:250,000	1-3
	Tabulations of low-water and high- water stages and slopes, 1901-39- maps	4
	Mississippe River water-surface profiles Helena to Angola-maps	5

Gerard H. Matthes Papers

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
5	Mississippi Projects -	
	Hydrographs 1932-42, Mississippi River and Tributaries	6-7
	Misc. comparisons of River Stages and slopes	8
	Mississippi River-Early courses-maps	9
	Lower Mississippi River-stream channels, 1930-32, 1940-41, datum is mean Gulf Level at Biloxi, Miss.	10-11
	Notes	12
	Mississippi Water Surface Profiles (maps)	
	Lower Mississippi River Channel at about Half-Century intervals-maps, 2 photos	13
	Mississippi River flood-crest relations and time of travel	14
	Mississippi River, 1929 and 1937, flood-crest profiles, mouth of White River to Baton Rouge-maps	15-16
	Mississippi River-Talweg profile, 1933	17
	Mississippi River-Flood stage lowerings, 1934, Marshall Pt., Diamond Pt., Giles Glasscock Pt.- maps	18
	Mississippi River-flood stage lowerings, 1934-37-maps	19
	Mississippi River-High-water slopes 1936, Cairo to mouth of White; also 40-foot rising stage comparison, 1936-37 mouth of White to Vicksburg	20
	Mississippi River-Flood-crest and Low Water profiles and levee freeboards, 1937; Cairo to mouth of White	21
	Mississippi River-High-water Slopes at Hardscrabble Bend, during construction	22
	Mississippi River-misc.	23-24
	Mississippi River Improvements for Flood Control and Navigation, Original Studies by Matthes, principal engineer, Norfolk, Va. 1930	
	Mississippi River-historical clippings	25
	Mississippi River-historical papers	26
	Mississippi River-Cut-off Rate of Development tables	27
	Mississippi River-Cut-off data	28-29

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
5	Mississippi River Improvements -	
	Mississippi River monthly and Annual Costs, 1929-39-blueprints	30
	Mississippi River Improvement	31-32
	Mississippi River Navigation-clippings and magazine articles	33
	Mississippi River Navigation-papers	34
	Mississippi River-clippings	35
	Mississippi River-maps, profiles	36-37
	Mississippi River-papers	38-40
6	Louisiana Projects -	
	Atchafalaya River-early studies, maps, blueprints	1
	Atchafalaya River-papers	2
	Atchafalaya River-reports	3
	Atchafalaya River Enlargement	4-8
	Atchafalaya River-report, 1940	9
	Atchafalaya River-maps	10-11
	Atchafalaya River-pamphlets	12
	Atchafalaya River-papers	13
	1 vol. The Atchafalaya River Study, 1951	
	Morganza Plaquemine-White River Diversion	14-16
	Texas Projects -	
	Clippings	17
	Pamphlets	18
	Red River-Texas and Louisiana	19
	Texas Floods-Dallas, San Antonio-clippings	20
	Texas Floods-papers	21
	Rio Grande-below Elephant Butte	22
	Rio Grande of Texas, Pecos and Devils River-clippings	23
	Rio Grande of Texas, Pecos and Devils River-pamphlets	24
	Rio Grande of Texas, Pecos and Devils River-papers	25-26
	Devils River-papers	27
	Devils River-photos (boulders in Devils River)	28
	Houston, Texas-Galveston Harbor, San Jacinto River-clippings	29
	Houston, Texas-Galveston Harbor, San Jacinto River-papers	30
	New Mexico-Rio Grande	31
	Arizona Projects -	
	Clippings	32
	Pamphlets	33

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
6	Arizona Projects - Papers	34-35
	Washington/Oregon Projects - Columbia River - Clippings	36
	Columbia, Willamette, and Puyalleys Rivers - Clippings	37
	Columbia River - Pamphlets	38
	Columbia River and Tributaries	39-41
	California Projects - California Floods and Water Supply - clippings	42-44
7	California Floods and Water Supply - pamphlets	1-2
	California Floods and Water Supply - papers	3
	Los Angeles Water and Power	4
	Sacramento River	5
	Central Valley - San Joaquin River Floods	6
	Los Angeles Floods	7-8
	South California - 1938 Flood	9
	California - clippings	10
	California - pamphlets - water and power	11-12
	California - pamphlets	13
	Sacramento River Bypasses and Weirs	14
	Colorado River Aqueduct	15
	San Diego River Project	16
	California Quadrangles - maps	17-18
	Gold Mining Debris	19
	2 vols. Preliminary Report on Flood 1942 and Report on Flood 1943, Los Angeles	
	Miami Conservancy District - Clippings	20
	Pamphlet	21
	Miami River, Ohio - many blueprints	22
	Miami Conservancy District	23
	Miami Conservancy District - technical literature	24
	Miscellaneous blueprints, maps	25
	Report	26-27
	Miami Conservancy Project Photos	28-30
	Papers	31-32
	Ohio - clippings	33-34
	Ohio - pamphlets	35
	Ohio River Floods, 1762 and 1763 (paper in French)	36
	Ohio River Floods	37
	Cumberland River	38
	Muskingum River	39

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
7	Miami Conservancy District -	
	Ohio River at Pittsburgh, PA	40-41
	Columbus, Ohio Quadrangles	42
	2 vols. History and Development of the Muskingum Watershed and Cloud- burst Flood, 1946 - Ohio	
8	Mexico Projects -	
	Rectificacion Rio Papaloapan Mapas y Graficas	1-7
	Report on the Condition of the Rectification Project	8
	Cosamaloapan No. 1, 1948	9
	Cosamaloapan No. 2, 1948	10
	Novillero, 1949	11
	Otatitlan, 1949	12
	Tesechoacan, 1949	13
	Tlacojalpan, 1949	14
	Aerial photographs used in layouts of cut-offs	15-16
	Columbia Projects -	
	Magdalena River - maps	17
	Magdalena River - Barranquilla, Bocas de Ceniza Report - March 20, 1945	18
	Magdalena River - drawings and tables	19
	Magdalena River - Vessels and Owners	20
	2 reports - Magdalena River Report, 1952; Magdalena River	
	1 vol. - Hydrographs, 1934-51; Improve- ment of Navigation on the Magdalena River between Bocas del Rosario and La Dorada	
	3 vols. - Orinoco - Text and Drawing vol. 1; Photographic Record vol. 2; Appendices	
	Holland Projects -	
	Clippings	21
	Pamphlets	22
	Papers	23
	Maps	24-26
	Record flood of 1925-26	27
	Dikes of Holland, Lecture and Pertin- ent data	28
	Zuider Zee Reclamation	29
	Dutch flood disaster, 1953 clippings	30
	1 vol. - Holland Dikes by Starling 1892	31
	1 vol. - Watervloed in Gelderland, 1861	32
	1 vol. - Verhandeling over de Inbraak en Overstroming, 1822	33
	1 vol. - De Nederlandsche Hoofdrivieren, 1850	34

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
8	Holland Projects - 2 vols. Flood of 1925-26 in Holland, and North Sea Canal of Holland, Improvement of Navigation from Rotterdam to the Sea.	
9	African Continent - Congo River - clippings Congo River - maps, notes Congo River - pamphlets Nile River - clippings Nile River - papers 5 vols. - 3 from the Institut Royal Colonial Belge (1941, 1948, 1949; nos. 6, 7, 8); Ministry of Finance, A List of Maps, Plans and Publica- tions - The Physiography of the River Nile and its Basin.	1 2 3 4 5-9
	China Projects - China - clippings China - maps China - pamphlets China - papers Yangtse - papers 7 vols. - American National Red Cross Report of Board of Engineers - Conservancy Project - China, 1914; The Yangtse River Commission Report, 1923; The Technical Committee, The Yangtse River Commission, 1924; Annual Reports of the National Economic Council, 1935, 1936; Yangtse, Yellow River Laboratory Experiments, 1932 (2 vols.). 1 folder labelled G.G. Stroebe Nos. 16-23 A Water Policy for the American People, 1950 (vol.) Pamphlet on water conservation and reclaiming land	10 11 12 13-15 16 17 18
	Dams - Design Uplift Discussions Dam Failures 1919 - Date - Clippings Dam Failures, including: Marshall, Molare, Alexander Dam - Hawaii March 1930; Lafayette, 1928; Corpus Christi; Apishapa, 1923 Austin Dams - this file contains the accounts of the failures of 2 dams having the same name: Austin Dam in Pennsylvania across Freemans Run on January 23, 1910, and Austin Dam in Texas on April 7, 1900 (across Colorado River of Texas).	19-21 22 23-24 25

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
9	Dams - Design -	
	San Gabriel Dams - failure of Dam #1 - clippings	26
	San Gabriel Dams - pamphlets and papers	27
	Geology at Dams (Levees, etc.) - clippings	28
	Geology at Dams (Levees, etc.) - papers, blueprints, photo	29-30
	Earthquake Design - pamphlets	31
	Earthquake Design - papers	32-33
	Dam Design - pamphlets, miscellaneous	34
	Dam Design - final report	35
10	Dam Design pamphlets	1-4
	Dam Design notes	5
	Arch-dam Design - pamphlets	6
	Arch-dam Design - papers	7
	Multiple-arch dams - pamphlet, papers	8
	Masonry Dam Design - clippings	9
	Masonry Dam Design - pamphlets	10
	Masonry Dam Design - papers	11
	Dams - reinforced concrete - buttressed ambursen	12
	Dam Design data - pamphlet, papers	13
	Dam Design data - papers	14
	McCall-Ferry Dam - Holtwood, PA	15
	Denison Dam, Oklahoma, Rolled Earth Fill	16
	Design Data (special) - pamphlets	17
	Design Data (special) - papers	18
	San Carlos Dam, Arizona, San Carlos Multiple-Dome Dam	19
	Dams - Selected Articles -	
	Possum Kingdom Dam on Brazos River, Ambursen Type	20
	Morena Dam, CA - rock-filled dam	21
	Granite Reef	22
	Grand Coulee Dam - clippings	23
	Grand Coulee Dam - pamphlets	24
	Grand Coulee Dam - papers	25
	Fort Peck Dam - clippings	26
	Fort Peck Dam - papers	27-28
	Coolidge Dam, Gila River, Arizona - miscellaneous	29
	Bonneville - clippings	30
	Bonneville - papers	31
	Bellefourche Dam, So. Dakota - and specifications, 1905-1908-1912	32
	Arrowrock - miscellaneous	33
	Shasta Dam - articles	34
	Pathfinder Dam, Wyoming	35
	Aswan-Assuan	36
	Madden Dam (Canal Zone)	37
	Hoover Dam, Boulder Dam - clippings	38

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
10	Dams - Selected Articles -	
	Hoover Dam, Boulder Dam - pamphlets and promotional material	39
	Hoover Dam, Boulder Dam - papers	40-41
	Dams - miscellaneous	42
	1 vol. - Conowingo	
	Conchas Reservoir Project, South Canadian River, New Mexico - papers	43
	Conchas Board - papers	44-45
	Conchas Dam - papers	46-50
	Conchas Dam - maps	51-52
11	Dams -	
	Conchas Dam - report of core boring, blueprint, graphs	1
	Conchas Dam - report	2
	2 vols. - Conchas Dam Geological Report, 1937	
	2 vols. - Conchas Dam Design and Construction	
	Arched Dams	3
	Shoshone Dam, Wyoming - concrete arch dam	4
	Sweetwater Dam - arch and gravity types	5
	Mormon Flat Dam	6
	Arched Dams - miscellaneous	7-8
	Gravity Dams - clippings	9
	Gravity Dams - papers	10
	Gravity Dams - Tygart	11
	Gravity Dams - Hetch Hetchy	12
	Gravity Dams - Morris Dam, CA	13
	Gravity Dams - Don Pedro Dam	14
	Gravity Dams - Elephant Butte Dam, NM - Straight gravity type	15
	Rock Fill Dams - papers	16-17
	Roosevelt Dam and other Gila River Dams	18
	Earth Dams - dry, rolled fill	19-22
	Earth Dams - Cold Springs Dam	23
	Earth Dams - Saluda Dam	24
	Earth Dams - Santee-Cooper Dam, SC	25
	Earth Dams - Buford Dam	26
	Steel Dams	27
	Rolling Dams	28
	Movable Dams	29
	Masonry Dams	30
	Low Dams	31
	Hydraulic Fills	32
	Hydraulic Fills - Sardis Dam (1939) and Arkabutla Dam (1942)	33
	Dam Failures 1903-18	34
	Dam Failures 1903-18 - Necaxa, Nash- ville, Dam 26, Ohio River, Elgha River Dam by undermining, 1912, Calaveras Dam, March 24, 1918, Lower Otay Dam	35

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
11	Dams -	
	St. Francis Dam Failure - clippings	36
	St. Francis Dam Failure - papers	37
	St. Francis Dam Failure - papers	38
	Canals -	
	1 vol. canalisation data - Locks and Dams	
	Canals - clippings	39
	Panama Canal - clippings	40
	Panama Canal - pamphlets	41
	Panama Canal - papers	42
	Ship Canals - St. Marys, Chesapeake and Ohio, Dismal Swamp, Rhine-Main-Danube, North Sea Canal, Panama	
	Corinth Cape Cod	43
	Navigation Inland - clippings	44
	Navigation Inland - papers	45
	Inland Navigation - Historical - clippings	46
	Inland Navigation - Historical - papers	47
	Navigability criteria	48
	Navigation - vessels - facilities - clippings	49
	Navigation - vessels - facilities - papers	50
	Navigation - vessels - facilities - vessels	51
	River Terminals and Traffic - tonnage data	52
	Intra-coastal Waterway - clippings	53
	Intra-coastal Waterway - papers	54
	Canals, Waterways, and Navigation - Miscellaneous - clippings	55
	Canals, Waterways, and Navigation - Miscellaneous - pamphlets	56-57
	Canals, Waterways, and Navigation - Miscellaneous - papers	58-60
	Canalized Waterways -	
	Canalized Waterways - papers	61
12	Waterways - miscellaneous	1
	Ohio River Canalization - clippings	2
	Ohio River Canalization (includes Monongahela River)	3-5
	Upper and Middle Mississippi River - for summary of canalization project including all structures and costs, see Col. Daley's article in <u>Civil Engineering</u> February 1936, herein - clippings	6
	Upper and Middle Mississippi River - papers	7-8

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
12	Canalized Waterways -	
	Tennessee River Canalization -	
	papers	9-11
	Waterways - Existing and Proposed -	
	clippings	12
	Illinois Waterways - clippings	13
	Illinois Waterways - papers	14-15
	Locks - clippings	16
	Locks - papers	17
	Widow's Bar Lock computations	18
	Canalized Waterways - misc. pamphlets	19-23
	Lock Design - misc. pamphlets	24
	Irrigation - clippings	25
	Irrigation - pamphlets	26-27
	Irrigation - 1920 to date	28
	Irrigation - papers	29-32
	1 vol. Reservoirs J.D. Schuyler	
	Irrigation Canal Lining	33
	Piers, Jetties, and Breakwaters -	
	Jetties and Breakwaters - clippings	34
	Piers, Jetties, and Breakwaters -	
	pamphlets	35-36
	Jetties, Breakwaters, Moles -	
	papers	37-39
	Tetrapods - Patent of Sotramer, Societe	
	d'exploitation (travaux a la mer),	
	Grenoble, France	40
	Harbors - Rangoon, Abidjan, Chili	41
	Piers, Jetties, and Breakwaters -	
	papers	42-45
	3 vols. Submerged Breakwaters; Model	
	Study of Wave Force Against Break-	
	waters, 1942; Port of Shanghai, 1928	
	Conduits -	
	Culverts (concrete)	46
	Conduits and Pressure Pipe Lines -	
	Design and cost data concrete,	
	all types	47
13	Pipes -	
	Flow in Pipes	1
	Tunnels - shafts	2
	Pipes - wood - pamphlets	3
	Pipes - wood - papers	4
	Pipes - plastic, asbestos, other	5
	Pipes - steel, cast iron, concrete -	
	pamphlets	6
	Pipes - steel, cast iron - advertising	
	material	7-8
	Pipes - steel, cast iron - standard	
	specifications for cast iron pipes	
	and special castings	9
	Dredge Pipe	10

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
13	Floodways -	
	Morganza Floodway - and early conception (and as built)	11
	1 vol. Morganza Floodway Control Structure	
	Bonnet Carre Floodway - clippings	12
	Bonnet Carre Floodway - papers	13
	Roughness Factor in floodways	14-15
	Birds Point - New Madrid Floodway - Maps, acreage flooded, sand deposits	16-18
	Birds Point - New Madrid Floodway - Conditions During Operation, 1937	19
	Eudora Floodway - (not built; but a useful example of making studies of this type)	20-23
	Floods -	
	Flood frequency - pamphlets	24-26
	Flood frequency - papers	27
	1 vol. U.S.G.S. Manual of Flood Frequency Symbols, 1947	
	Drafts for use in text on flood frequency	28
	Flood frequency text	29-32
	Flood frequency - committee reports - pamphlets	33
	Flood frequency - committee reports - papers	34-36
	E.J. Gumbel - pamphlets, reprints	37-38
	E.J. Gumbel - papers	39-40
	1 vol. "Destructive Floods", E.C. Murphy, 1903-4-5	
	Flood Damage and Flood Insurance -	
	Flood Damage and Flood Insurance - clippings	41-42
14	Flood Damage and Flood Insurance - clippings	1
	Flood Damage and Flood Insurance - pamphlets	2-4
	Flood Damage and Flood Insurance - papers	5-11
	5 vols. Report on Flood Control ASCE Special Committee, 1939; Bridge Pier Losses, 1938; Flood Damage Insurance, 1952; Mostafa on Flood Control; Tehachapi Floods, 1947.	
	Historic Floods and Climatic Cycles -	
	Historic Floods - notes	12-13
	Lecture notes - great floods of history	14
	Long range climatic changes (cycles) - clippings	15

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
14	Historic Floods and Climatic Cycles -	
	Long range climatic changes (cycles) - papers	16
	Wet and Dry cycles - worldwide - clippings	17
	Wet and Dry cycles - worldwide - papers	18
	Meteorology of Floods -	
	Meteorology of Floods - clippings	19
	Heavy rain records - clippings	20
	Shuh-Chai Lee on Statistical Analysis of Hydrologic data - 1954	21
	Air-mass analysis	22
	Meteorology of floods - papers	23-26
	Meteorology of floods - pamphlets, booklets, reports	27-31
	U.S. Midwestern Floods -	
	U.S. Midwestern Floods - clippings	32
	Mid-Western floods - Iowa, Missouri, Minnesota, Wisconsin, Dakotas - papers	33
	Engineering Geology report - Cimarron River	34
	Indiana - Wabash - papers	35
	1 vol. Flood Control Plan - Wabash River and Tributaries, 1938	
	Illinois - Indiana - papers	36
	Minnesota and Wisconsin - papers	37
	Oklahoma - papers	38
	South and North Canadian River - papers	39
	Arkansas River - papers	40
15	Arkansas River - maps	1
	Arkansas River - tables, papers	2
	2 vols. Ancient Rivers - Ohio, West Virginia, Kentucky; Devils River Floods, Rio Grande Floods, 1948	
	New England Floods -	
	Atlantic Coast Rivers - Connecticut River flood of 1927, New England - clippings	3
	Atlantic Coast Rivers - Connecticut River flood of 1927, New England - papers	4
	Connecticut River (Barrones) - papers, photos	5
	Connecticut River flood of March, 1936 - clippings	6
	Connecticut River flood of March 1936 - papers	7

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
15	New England Floods -	
	Connecticut River-maps	8
	New York State-clippings	9
	New York State-papers	10
	New York City-water supply-Dams only-clippings	11
	New York City-water supply-Dams only-papers, photo	12
	Delaware River-Schuylkill River, NYC-water supply clippings	13
	Delaware River-Schuylkill River, NYC-water supply papers	14-15
	New Jersey floods-clippings	16
	New Jersey floods-papers	17
	Floods in Europe -	
	Miscellaneous clippings	18
	Philippines-clippings	19
	Floods in Europe-papers	20
	Floods in Europe-clippings	21
	Floods in Great Britain-clippings	22
	Thames River floods-clippings	23
	Thames River floods-papers	24
	Italian Rivers-clippings	25
	Italian Rivers-papers	26
	France-clippings	27
	France-papers	28
	Danube and Tributaries (except Tisza)-papers	29
	Near East and India Floods -	
	Floods-India, China, Japan, and Pakistan-clippings	30
	Near East Projects-Syria, Palestine, Afghanastan, the Litany River-clippings	31
	Near East Projects-Syria, Palestine, Afghanastan, the Litany River-papers	32-34
	India-Ganges, Kashmir, Assem, Brahmaputra, Irawadi- clippings	35
	India-Ganges, Kashmir, Assem, Brahmaputra, Irawadi- papers	36
	Euphrates-Tigres Rivers-data on the "Deluge"- clippings	37
	Euphrates-Tigres River-papers	38
	River Indus-clippings	39
	River Indus-papers	40
	River maps-British India, Irrawaddy, Ganges, Brahmaputra, Formosa, Mandalay-clippings	41
	River maps	42
	Flood Control -	
	Committee on Flood Control, A.S.C.E.-1937-40	43-45
	Hurricanes, Earthquakes, Tornados -	
	Clippings	46-49
	Papers	50
	Hurricanes and Typhoons-clippings	51
	Hurricanes and Typhoons-papers	52

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
15	Hurricanes. Earthquakes. Tornados -	
	Hurricanes and Floods, 1938, storm of Sept. 1938, New England-clippings	53
	Hurricanes and Floods, 1938, storm of Sept. 1938, New England-papers	54
	1 vol. Hurricane of Sept. 1938, in Massachusetts	
16	Hurricanes, Earthquakes, Tornados -	
	Hurricane Diane, 1955, also Ione, Hilda, Janet, and Typhoons-clippings	1
	Letters of appreciation	2
	Preservation of our Rivers-Paper for Washington A.G.U. Dinner, Nov. 12, 1947, and Sediment in Streams, published in A.G.U. Trans., 1949 (1 page)	3
	Flood Control Opinions-papers	4
	Penstocks, Surge tanks, hydraulic rams-pamphlets	5
	Penstocks, Surge tanks, hydraulic rams-papers	6
	Weirs and Orifices (for flow over embankments see Levees file)-papers	7
	Flow thru gates and orifices-papers	8
	Venturi meter-papers	9
	Keokum Dam (concrete deterioration) and power-plant papers	10
	Design of Safe harbor dams-power development on Susquehanna River of the Penna. Water and Power Co., Holtwood, Penna.-maps	11
	Dams statistics-papers	12-13
	Marine currents-clippings	14
	Marine currents-papers	15
	Whirlpools-papers	16
	Quicksand-papers	17
	Drouths -	
	Drouths-clippings	18-20
	Drouths-pamphlets	21-23
	Drouths-papers	24-25
	Drouths-1930 in Penna. by Mangan, 1937; 1930-34 W.S. Paper 680; 1930 in Iowa, Univ. Bul. 256; --of the Big Trees; Drought of 1953-54	26
	1 vol. Hydrology, 1942, American Geophysical Union, Part II	
	River Geology -	
	River Geology-pamphlets	27
	River Geology, Miss. River-Transvalley Cross-sections by Fisk	28
	Maps to accompany Dr. Fisk's Report of 1947	29
	River Geology-maps	30
	River Geology, Carlisle Lake, H.N. Fisk-maps	31
	River Geology-papers	32-34
	2 vols. Geology of the Alluvial Valley of the Mississippi River by Fisk; Geological investigation Alluvial Valley-Lower Mississippi River	

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
16	Geological Data -	
	Geological data-pamphlets	35-38
	Geological data-Greenville Bends, maps	39
	Geological data-maps	40
	Excerpts from G.K. Gilbert's Rept. on the Geology of the Henry Mtns., 1877	41
	3 vols.-Meandering of Model Streams, 1941; Laboratory Study of the Meandering of Alluvial Rivers; Meanders by Escobar	
	5 vols.- 2 Hydraulic-Mining Debris in the Sierra Nevada; Geology of the Navajo Country; Rept. of Dogtooth Bend Model Study; Geological investigation of the Alluvial Valley of the Lower Mississippi River, War Dept.	
17	Tides and Tidal Rivers -	
	Tides and Tidal Rivers-clippings	1
	Tides and Tidal Rivers-pamphlets	2-4
	Notes for text	5
	Tides and Tidal Rivers-papers	6-8
	Tidal Rivers-text	9
	Tidal Canals and Estuaries (literature)	10
	Mississippi River tide records, New Orleans and Baton Rouge-blueprints	11
	Gulf of Mexico tides, Biloxi tide gage records, letter from Coast and Geodetic Survey, other tide gage records, Lower Grand Lake, Charenton Lake, Morganton Lake	12
	Passamaquoddy Project-clippings	13
	Ralph F. Rhodes-papers	14
	2 vols.- Bibliography on Tidal Hydraulics; "Quoddy" Tidal Power Devel.	
	Deltas and River Mouths -	
	Deltas and River Mouths-pamphlets and booklets	15-17
	Notes on Deltas	18
	Deltas and River Mouths	19
	Rio Grande Delta (Quadrangles)-maps	20
	Mouths of the Rhone-1846,51,69,73	21
	vols. - Holland Geology-1855, 1856, 1856-57, 1857-60, 1860; Nederlandsche Hoofdrivieren; Model Study of Tidal Currents in East River, N.Y.	
	Levees -	
	Levees-clippings	22
	Levees-pamphlets	23
	Levees-papers	24-27
	Levees-maps	28
	2 vols.- Study of Foundation of Test Section, Pendleton New Levee; Levees-Underseepage	

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
18	Revetments -	
	Tetrahedral Revetments-clippings, notes, papers, photos in photo series	1-2
	Revetments-clippings, pamphlets, notes, photos	3-4
	Revetments-papers	5-11
	Revetments-maps	12
	Revetments-Wire bound rock sausages	13
	Revetments-asphalt	14
	Revetments-reprints Eng. News Record (Tetrahedral)	15
	2 vols.- Fort Beverly Text; Reservoir for Flood Control	
	Concrete - Steel - Wood -	
	Cement and concrete-clippings	16
	Pamphlets, booklets, small books	17-20
	Concrete literature- 1903-13	21
	Concrete literature- 1913-16	22
	Concrete literature- 1919-57, Foundations-papers	23-24
	Cement and Concrete-data	25
	Grouting-papers	26-27
	2 vols.- Manual of Construction; Compendium of Grouting, 1937	
	Spillways -	
	Spillways-pamphlets	28
	Lateral Spillways, orifices-pamphlets	29
	Spillways-maps	30-32
	Spillways-papers	33
19	Crevasses-papers	1
	Diversions and Floodways-papers	2-4
	Spillways at Dams-papers	5
	Siphon Spillways	6
	Spillway pictures-clippings, notes, papers, photos	7
	Spillway-Design data	8
	vols. - Report on Caernarvon crevasse, 1927; 3 vols. Model Studies of Spillways; Method of Operation of Birds Point-New Madrid Floodway- Missouri.	
	Hydraulic Design Data -	
	Hydraulics data	9
	Flow in pipes and conduits-papers	10
	Fish-ways-Aquatic Organisms, fish life- clippings, papers	11
	Dam design- 1925-56, clippings, papers	12
	Design data, miscellaneous-papers	13
	Cheathaven Project, 1912-13, State Line Dam, W.Va. Foundation Tests, 1913	14-15
	T.V.A. Dams-Norris-Chickamauga, Hiwassee, Fontana, Douglass, Nottely, Chatuge-clippings	16
	T.V.A. Dams-pamphlets	17
	T.V.A. Dams-papers	18-19
	German Dams-Ruhr, Wolfelsgrund-clippings	20
	Foundation Problems at Dams	21

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
19	Hydraulic Design Data -	
	Pressure tests-at State Line Dams, W.VA, 1913	22-24
	Pressure testing and other testing-notes on Masonry Dam design	25
	Pressure testing and other testing-papers	26
	Hydraulic design data-papers	27
	Hydraulic design data-pamphlets, booklets	28-29
	Hydraulic Fill Dams-pamphlets, booklets	30
	Precise Weir Measurements-pamphlets, booklets	31
	Friction Loss in Pipes-pamphlets, booklets	32
	Venturi Meter and Flume-pamphlets, booklets	33
	Geological Factors-pamphlets, booklets	34
	Flow of water in Flumes and Ditches-pamphlets, booklets	35
	Flow over broad-crested Weirs and Dams-pamphlets, booklets	36
	vols. -Dams and Control Works; Dams and Control Works, 1938; Code Governing Design and Construction of Dams in Arizona.	
20	Model Experiments -	
	Model Experiments-clippings	1
	Model Experiments-maps	2
	Model Experiments-pamphlets, booklets	3-5
	Model Experiments-papers	6-8
	Mississippi Basin Model, Clinton, Miss.-clippings, papers	9
	Mississippi Basin Model, Clinton, Miss.-booklets, reports	10-11
	Material for text-papers	12-13
	Material for text-paper with photos	14
	Material for text and literature	15-16
	Hydraulic Laboratories Literature-clipping, photo, papers	17
	Model Experiments-papers	18-21
	3 vols.- Rehbock-FlussbauLaboratorium, 1926; Flow Problems with Respect to intakes and tunnels of Swedish hydr-electric power plants; Model Study of Salt-Water Intrusion.	
	Dredging-	
	Dredging-clippings, pamphlets	22
	Dredging-papers	23-24
	Pipe-Line Crossings-Mid-Valley Pipeline Co. Sohio (St.Louis) Pipeline Co., Susquehanna, Phil. Pipeline Co. and Sun Texas Pipeline Co.	25
	Mid-Valley Pipeline Co. Specification for Miss. River Crossings, June 15, 1949	26
	Shulits on Improvement Dredging	27
	Silting of Reservoirs-	
	Silting of Reservoirs-booklets	28-29
	1 vol.-Annotated Bibliography on Sedimentation	

Gerard H. Matthes Papers.

Box #	Description	Fldr. #
20	Soil Mechanics -	
	Soil Mechanics-pamphlets, booklets	30-31
	Soil Mechanics	32-34
	Soil Mechanics-Early, Literature prior to 1936	35
	Chemical treatment of Soils-clippings	36
	Chemical treatment of Soils-papers	37-39
	Bentonite and Rosstone, Volclay-papers	40-42
	Loess Studies-papers (see photograph series)	43
	Groundwater -	
	Groundwater-clippings	44
	Groundwater-pamphlets	45
21	Groundwater-pamphlets	1
	B. Hellstrom's Reports-Groundwater, pamphlets	2
	Groundwater-papers	3-5
	5 vols.- Water Levels; The Rate of Movement of Underground water; Well-Drilling Methods; Fine- Grained Alluvial Deposit; Movements of Groundwater.	
	Meteorology -	
	Meteorology-clippings	6
	Rain making-clippings	7
	Meteorology-pamphlets	8-10
	Meteorology-maps	11
	Meteorology-booklets	12-15
	1 vol.- Storm Rainfall in the U.S.	
	National Resources -	
	National Resources-clippings	16
	National Resources-papers	17
	National Resources-pamphlets	18
	National Resources-papers	19
	National Resources Board, 1934, 1936, 1938-clippings	20
	National Resources Board-papers	21-22
	Water power policy-papers	23
	Water Policy Commission-E.J.C.-papers	24-26
	New Water Policy (1956)-papers	27
	Federal Power Act-powers-clippings, white-on-black photostats	28
	Federal Power Act-papers	29
	vols.- National Resources Cttee. Report on P.W.A. Planning; 1935-Inventory-Water Resources-Mississippi River Basin; National Resources Board Report, 1934, Part III; National Water Policy, 1950.	
22	vols.- 1936, National Resources Cttee. Drainage Basin Problems and Programs; 1938, National Resources Cttee. Regional Planning, Part VI, Upper Rio Grande.	
	Legal Papers -	
	Legal Papers-clippings	1-2
	Water Compacts-clippings	3
	Dixon Yates-clippings, Hydro-Power Development- Public vs. Federal, Niagara	4
	Tidal Oil Lands-clippings	5
	Water Laws-clippings	6

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
22	Legal papers-	
	Legal papers-pamphlets	7
	Legal papers-notes, reports, maps	8-12
	Water laws-text, clippings, papers	13
	Legal-miscellaneous	14
	Interstate Compacts-clippings	15
	Interstate Compacts-papers	16
	Joint Committee on Floods; Check-Dams; Debris Dams;	
	Debris Basins	17
	Reclamation Bureau-papers	18
	Hell's Canyon-clippings	19
	Shearer Case (Revetment) before U.S. Court of Claims	
	(Shearer v. U.S.)-papers, 1 photo	20-21
	Revetments-patent #2,028,794-Tetrahedrons-papers, photo	22-25
	Sinclair Oil Corp. Case-papers	26
	Sponenbarger Case (Poinsett Lumber Co.)-clippings, papers	27
	New River Case, Cheat River Power, W. Va. State Rights-	
	clippings	28
	New River Case, Cheat River Power, W. Va. State Rights-	
	papers	29
	T.V.A. Case-1934-36, Supreme Court Decision,	
	(constitutionality)-clippings	30
	T.V.A. Case-1934-36, Supreme Court Decision,	
	(constitutionality)-papers	31
	International Water Compact, U.S. and Mexico, U.S. and	
	Canada, (St. Mary River and Niagara River)-papers	32
	vols.- 1938, T.V.A. Laws (Rivers); Interstate Compacts,	
	1946; Report of the Mississippi Valley Committee of the	
	Public Works Administration, 1934.	
23	Surveying, Mapmaking, and Blueprints-	
	U.S. Geological Survey Instructions	1
	Echo Soundings U.S. Engineer	2
	Surveying Instruments	3
	Aerial Photographic Surveys	4
	Misc. papers	5
	Sailing Charts around World - 1901 - Charts kept by	
	G.M. for the MIT Astronomic Expedition to Sumatra,	
	East Indies	6
	Surveys - hydrographic	7
	Cartography - clippings, papers	8
	3 vols. - Formulas & Tables for the Computation of Geodetic	
	Positions; 1898, cartography; Plane Table Manual	
	Hayden Survey Maps - Photo repro's were used by G.M. in	
	1899 for his work in Mesa Verde and Montezuma County, CO	9
	Echo Soundings - pamphlets, clippings, papers	10
	Tracings	11
	Surveys and mapping Text	12
	River Surveys in Unmapped Territory	13-15
	1 vol. Early Exploratory Surveys, 1830-57	

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
23	<u>Mississippi River Discharge Measurements - blueprints</u>	
	<u>Mississippi River at Memphis, Jan. 1937-July 1945, at</u>	
	<u>Friar Pt. 1928-29</u>	16
	Discharge measurements of Tributaries in the Memphis	
	Engineer District; Obion, Cache, Wolf, Hatchie, Forked	
	Deer Rivers, 1938-44	17
	Arkansas at Little Rock and Pine Bluff, 1938-45	18
	Discharge Measurements at Vicksburg, 1939-45; 1927 & '29	
	included; also misc. measurements including Mississippi	
	River at Seven Oaks, Ark.; and Mayesville	19
	Misc.	20
	Red River at Alexandria, La., 1941-45, and at Shreveport,	
	1942-45	21
	New Orleans District - Mississippi River at Natchez,	
24	Morgan City, Buckridge Ldg., Bayou Boeuf, Wax Lake Outlet,	
	Berwick Bay, NORCO, Burn Landing, Hardscrabble Bend,	
	Pointe à la Hache, and Old River at T. & P. Bridge	22
	Atchafalaya River (at Simmesport), Old River (at Torras),	
	Berwick Bay (at Morgan City), and Atchafalaya River at	
	Krotz Sp's	23-24
	Mississippi River at Carrollton, La. and Gramercy - Aug.	
	1936-July 1945, 1941-45 Island #82 Chute and Misc. incl.	
	Natchez and Kempe Bend, 1944-45	25
	Misc.	26
	<u>Surveying, Mapmaking and Blueprints</u>	
	<u>Mississippi River Discharge Through Cut-offs - blueprints</u>	
	<u>Cut-offs, Chutes, and Channel Enlargements, 1940-44,</u>	
	<u>Yazoo Canal, 1929</u>	1
	Diamond Cut-off	2
	Willow Point Cut-off, Vicksburg District	3
	Giles Cut-off	4
	Marshall Point Cut-off	5
	Rodney Cut-off	6
	Yucatan Cut-off	7
	Leland Neck Cut-off	8
	Worthington Cut-off	9
	Tarpley Neck Cut-off	10
	Sarah Island Cut-off	11
	Glasscock Cut-off	12
	Caulk Neck Cut-off	13
	Hardin Point Cut-off	14
	Ashbrook Neck Cut-off	15
	Sunflower Cut-off	16
	Jackson Point Cut-off	17
	Carr Point Cut-off, 1944-45	18
	American Cut-off	19
	<u>Mississippi River Flow Lines - blueprints, maps</u>	
	Misc.	20-27
	<u>Surveying, Mapmaking, and Blueprints</u>	
	Misc. maps	28

Gerard H. Matthes Papers.

Box #	Description	Fldr. #
24	Channel Shifting - Mississippi River	29
	Sacramento River Weirs - Fremont Weir, Tisdale Weir, Moulton Weir, Colusa Weir, Sacramento By-Pass Weir	30
	Tizsa River - treatise and maps	31-33
	Mississippi River Permanent Range Cross Sections 392-598 Miles below Cairo in 45 sheets, 1940	34-38
25	Atchafalaya - maps	1-6
	Atchafalaya - blueprints	7-8
	Experimental River Models - transparency	9
	Experimental River Models - maps (graphs)	10-14
	Mississippi River Flood Control Model No. 94	15-16
	Comparison of Cross Section Elements near Esperance Point Mile 715 to Mile 723 in 7 sheets, Aug. 7, 1933 - blueprints	17
	Misc. blueprints	18
	<u>New Zealand Rivers legal sized material</u>	
	New Zealand Rivers - papers and reports	19-21
	New Zealand Rivers - pamphlets and reports	22
	New Zealand Rivers - pamphlets - flood discharges	23
	Australia - clippings	24
	Australia - pamphlets	25
	<u>Misc. oversized volumes</u>	
	2 vols. Methods of Flood Control; Hydrology Manual No. 2, 1955; Afvoermetingen in De Benendenrivieren, 1930-34 - drawings; and one vol.; Getijkrommen van Plaatsen aan de Nederlandsche Kust en Benedenrivieren; Erosion of the Bottom of River Beds; and Mississippi River SW Pass Current Observations	
26	Traverse books marked US Geological Survey	
	13 books, 1900-1907	
	Diaries, 23 books 1932-1945	
	1 Handy Notebook - c. 1944-c. 1948 - Mexico notes made on trip to Mexico, 1952	
	Soft cover diaries	
	1924, in Chicago	
	1924-25 Office Diary at Fairchild Aerial Surveys	
	Field Diary Notes 1933-36	
	Diary 1948	
	Memorandum Book, Papaloapan River, 1950	
	Pages starting Sunday Feb. 8th, trip to Puebla, Puebla	
	Conchas Dam Data, So. Canadian River, New Mexico - Water Well Log, etc. 1935	
27	Mississippi Binders	
	Mississippi River - 1937	
	Early Reports Mississippi River	
	Col. H. B. Ferguson's Memorandum, 1930	
	Mississippi River Commission Reports	
	Mississippi River Laws	
	Channel Elements Mississippi River	

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
27	Mississippi Binders Lectures on Mississippi River Gen. H. B. Ferguson's Instructions for the studies on Mississippi River Cut-offs Mississippi River Commission Studies, 1938 Floods in the Mississippi Basin Reports on Mississippi River	
28	Binders Morganza Floodway, 1938 Spillways and Stilling Basins River-bed Materials, includes W. E. S. Paper Spillways 1 binder U.S. Dept. of the Interior, Office of River Control Work and Investigations Lower Colorado River Basin 1945 Reports of G. H. M. Water Consultant, 1936 Water Laws (Federal) Ground Water Laws Conservancy Act of Ohio Water Laws (states) Oceanography Hydrologic Data Rocky Mountain Hydraulic Laboratory Central Colorado Power Co. Hydrologic Data Masonry Dam Design - Committee on Uplift River Profiles Deltas, Inlets, Sand Reefs, Subsidence	
29	Binders Water Laws (misc.) Tetrahedron's Revetments Tennessee River Floods Missouri Basin Project Geology at Dams Fissures near Wyatt, Mo. Geological Investigation of Faulting Magdalena River Ports by Guillebaldo Forero, Oct. 1951 Irrigation structures Breakwaters List of Literature relating to French Rivers Crevasses Dredging Court Decisions Relating to Rivers and Tidal Waters (navigable)	
30	<u>Matthes' Writings</u> Clippings Reservoir Operation Difficulties, Buchanan Dam, clippings Pamphlets, booklets, programs Floods and their Economic Importance - pamphlets	1 2 3-7 8

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Descriptions</u>	<u>Fldr. #</u>
30	Booklets	9
	Papers - much on mussels and shoals	10
	Freeman fund - letters of recommendation	11
	Memoir of Harold C. Fiske	12
	Topographic Slide Rule	13
	River hydraulics - notes	14
	Reprint - "How Good is Flood Control" Iowa University by G.H.M.	15
	Clippings	16
	Pamphlets	17
	Solids in stream flow, 1949 - pamphlets	18
	Papers	19-21
	"My Report on Channel Deterioration Cairo to New Madrid," 1941	22
	Aerial mapping articles	23
	Observational Hydraulics - article by G.H.M.	24
	U.S. Patent #2,028,794; patented Jan. 28, 1936; granted to G.H.M. at Los Angeles, Calif.	25
	Mississippi River - cut-offs	26
	"How Good is Flood Control"	27-28
	Clippings	29
	Pamphlets	30
	Papers	31-33
	Tabulations of Stage Lowering (expected)	34
	"My Report on Jan. 28, 1950"	35
	Papaloapan River Correspondence	36
	Papaloapan River Correspondence - photos	37
	Papaloapan River Correspondence	38-40
	Handbook - correspondence, reports	41-42
	Handbook Revision, correspondence	43
	Abbett, Robert W. - correspondence	44-45
	Abbett, Robert Q., 1954, correspondence	46
	Horner, W. W., correspondence	47
	Outline for Handbook	48-50
	Material for illustrations for Handbooks	51
	Illustrations (<u>not</u> for Handbook)	52-53
	Graphs	54
	<u>Matthes' Miscellaneous Notes, etc.</u>	
	Early studies for Gen. Ferguson	55
	"My Reports to Gen. Ferguson"	56
	Earliest aerial survey maps for engineering projects in U.S. Produced for War Dept. and Alabama Power Co. Construction of maps under direction of G.H.M. who also designed the stereoscope used.	57
	Cttee. Flood Protection data - 1934-36; water supply paper 771	58
31	Miscellaneous papers	1
	Misc. clippings	2-4
	Misc. pamphlets	5-7
	Misc. maps	8-9

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
31	Misc. blueprints	10
	Misc. papers	11-14
	Muscle Shoals pros and cons - clippings	15
	Muscle Shoals pros and cons - papers	16
	Orinoco - papers	17
	Engineering practice - pamphlets, including "Wreck of the Battleship Maine," "Old Man River Speaks," "The Colorado River Storage Project"	18
	Engineering practice - papers	19-20
	River Engineering - misc. memoranda unclassified	21
	Misc. papers	22
	Misc. papers	23
	Misc. - clippings - legal	24
	Misc. - clippings - floods	25
	Misc. - clippings	26
	Miscellany	27
	Miscellaneous correspondence (with Prof. Posey)	28
	Information about the perpetual calendar	29
	Britannica	30
	<u>Notes on Hobbies and Interests</u>	
	Paleo-botany and Tree-ring studies - clippings	31
	Paleo-botany and Tree-ring studies - papers	32
	Rocky Mountain Laboratory	33
	Bees (also Black Widow) - clippings	34
	Bees (also Black Widow) - papers	35
	Wasps, moths, butterflies - clippings	36-37
	Wasps, moths, butterflies - papers	38-39
	Memoranda of a trip around the world, 1901 - clippings	40
	Memoranda of a trip around the world, 1901 - maps	41
	Memoranda of a trip around the world, 1901 - papers	42
	Memoranda of a trip around the world, 1901 - small book, documents, ltrs. and 2 photos, and booklets in Sumatra expedition (see photograph series for glass photo of eclipse)	43
	<u>Personal information (vita, job descriptions of projects) etc.</u>	
	Military matters - war department and Society of American Military Engineers material	44
	"Gerard's First Jobs 1894-7" while a student at MIT	45
	Biographical material - includes career summaries, education, awards and honors	46
	Biographical material - includes excerpts from diaries and "Gerard's ascent of Mont Blan, 1887" and clipping	47
	Map of Amsterdam - shows location of the old Matthes home	48
	<u>François Matthes Material</u>	
	Reprints of papers, misc. papers	49
	Grand Canyon - clippings	50
	Mount Rainier National Park - papers, 1 photo	51
	Misc. articles - reprints, maps, clippings	52
	1 vol. - Geologic History of the Yosemite Valley	

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
32	<u>Volumes - Reports</u> 5 vols. American Geographical Society Special Publications 1 vol. Steel Sheet Piling - U.S. Steel 19 vols. U.S.A. Dept. of State International Boundary & Water Commission U.S. and Mexico 1 vol. Colorado Power Co. Design Computations,, G.H.M., 1907 1 vol. Glenwood Development Forebay Gates 1 vol. E.J.C. Water Policy Reports, 1949-50 1 vol. Report on South Platte Projects, 1908 1 small volume Glenwood (?) <u>Scrapbooks</u> Mississippi River Floods, 1932, 33, 35, newsclippings Modified Plan for Flood Control, 1935-36, newsclippings Great Floods Periodicity (scratch copy), clippings, notes	
33	Scrapbook of "A Century of Progress International Exposition" Chicago, 1933 1 certificate from the Encyclopedia Britannica Glass encased photo - Eclipse Expedition - 1901 by G.H.M. who was in the party from MIT annotated, "The most successful expedition to obtain a good photograph of the sun Oversize photograph of Aerial Survey of Colorado River on its delta and the Levee Protective System	1 2 3
34	<u>Photographs size 5½ x 4½</u> Landslide of July 23, 1925, on Gros Ventre River off Sheep Mtn. Taken Sept. 1, 1925 Cheat River, W. Va. 9-21-13 Vicksburg, Miss., Jan. 22-28, 1940 Gros Ventre River, Sept. 1, 1925 Magdalena River, Columbia, 1946 by Pohl Singapore, New Guinea, Java, Tahiti, Bali, c.1929-35 Misc. photos (2 photos) Mexico Colorado (3 photos) 5½ x 7½ 3 photos Mexico, 1 Rushkill Pennsylvania Aerial photos - Mississippi River Cut-offs 12 x 9 Conchas Dam Photos Colorado River Delta - aerial photos Loess Studio Photos - 5½ x 7½ Loess Studio Photos - 12 x 9 Matthes Spillway - photos of glass flume Canadian photos (many aerial, 1 of old airplane) Experiments to determine the effectiveness of concrete tetrahedral blocks as revetments; notes as well as photos Misc. photos including Mississippi River navigation - 1906 & 1938; Rijks Museum Te Amsterdam, 1885; Grand Tower Rock, Illinois, 1889	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Fldr. #</u>
34	1 photo with newsclips pasted to back of and about Grand Tower Rock, Illinois, 1889	20
35	<u>Albums</u> 1 photo album Oklahoma - 1903 1 photo album Colorado - 1898	
36	<u>Albums</u> 1 photo album Colorado - 1898, Arizona - 1899	
37	<u>Albums</u> 1 photo album Island of Pico, Coast of Spain, 1901; Italy, Island of Perim, Sumatra, Malays, Shanghai, 1901	
38	<u>Bindered Photographs</u> Cut-off photographs Mississippi River, 1939 Oblique Views of Mississippi River Cut-offs, Aug. 1936 and Nov. 1939 and 1935 Red River Cut-offs Aerial Photos, 1936-38 Special Subjects Negatives for making lantern slides List for slides Samples	1-5 6-10 11-12 13 14 15 16
39	<u>Lantern Slides</u> Small boxes marked: Holland lecture, 1944 Great floods Western slides Holland lecture G. H. Matthes, Misc. 2 unmarked 1 slide from Loess Studio	
40	<u>Dutch Photos of Engineering Works: Du Celliee</u> North Sea canal to Amsterdam, 1868-1875 Bridge at Crevecoeur, 1868-1871 Bowenboww Bridge, 1872 Printed photos of typical Dutch scenes Photo of Trouville(cafe-beach scene) Photo of movable crest dam at Shoshone, Colorado Loose photos from album <u>Photo Album:</u> Shoshone, Colorado; construction Central Colorado Power Company Crib dams, tunnels, channels, Orange peel buckets Sandbag dam, Bear trap dam, employees Kossler crushing plant and reservoir Hoist at Magnolia, Colorado Boulder Creek; pipeline and excavation Barker dam, Colorado Midland R.R. - Hell Gate Concrete weir at Nederland, Colorado	1-2 3 4 5 6 6 7

Gerard H. Matthes Papers.

<u>Box #</u>	<u>Description</u>	<u>Folder #</u>
41	<u>Files and records</u>	
	Channel Elements, 1913-1938	1
	Discharges- miscellaneous, 1858-1941	2-3
	Discharges- Krotz Springs, 1934-1935	4
	Discharges- Vicksburg, 1928-1938	5
	Bondurant (bl. print map), 1882-1934	6
	Ash Brook Cut-off, 1927-1936	7
	Caulk, 1936-1938	8
	Diamond Point Cut-off, 1933-1935	9
	Giles Bend Cut-off, 1933-1935	10
	Glasscock Cut-off, 1933-1936	11
	Leland Neck Cut-off (also Tarpley), 1929-1937	12
	New Orleans Dist. Cut-offs, 1861-1939	13
	Rodney, 1936	14
	Davis Island (emergency outlet), 1934	15
	Diversion at Arkansas City (compartment weirs), 1916-34	16-17
42	<u>Photographs</u>	
	Locks at Utrecht, 1885-1886	
	Locks at Vreeswyk, 1883-1886 (Merwede Canal)	
	Prints: photos of Holland	