Register of the
JULIAN HINDS COLLECTION
1881 - 1975
by Robert W. Ageton

ARCHIVES CENTER
NATIONAL MUSEUM OF AMERICAN HISTORY OCTOBER 1988

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Biography

Julian Hines (1881 - 1975) was born at Warranton, Alabama, grew up on a farm in Bullard, Texas, and without a High School Diploma entered the University of Texas, Austin, Texas, the fall of 1904 and was graduated with a B.S. Engineering Degree in 1908.

After graduation he was an instructor at the Univ. of Texas for one year then went with private industry designing precast concrete railway bridges. That design work lead to engineering concrete irrigation works with the Bureau of Reclamation in Sunnyside, Washington, and then later at various other locations involving the construction of dams. He resigned from the Bureau in 1926 to work in Mexico on dams and irrigation systems. The Calles Dam was notable among early "trail load" arches. In 1929 he became Assistant General Manager and Chief Engineer for the Metropolitan Water District of Southern California. In that capacity he assumed charge of planning and design work on the Colorado River Aqueduct, a $40 million dollar project. He retired in 1951 as General Manager and Chief Engineer.

Post retirement (1951 - 1971) consulting with the Bechtel Corporation, Department of the Army (U.S.E.D.), the U.S. Bureau of Reclamation, and the World Bank involved many of the dams constructed on the Columbia and Colorado Rivers, and in the States of Montana, Utah, Colorado, New Mexico, and south of the border, Mexico. It is estimated that he was employed on 150 dam projects.

During his engineering career he wrote many technical articles and was a co-author of "Engineering for Dams" by Creager, Hinds, and Justin and contributed to references on hydraulics and dams.

Among honors received was the "Distinguished Aluminus" citation given by the University of California in 1957; Member of Tau Beta Pi (an Engineering Honor Society); member of Sigma Xi; Honorary Member of the American Society of Civil Engineers; and Honorary L.L.D., University of California, 1957.
Scope and Content

A letter dated August 4, 1971 from the Executive Director, American Society of Civil Engineers, New York, NY, to Julian Hinds stated: "This is addressed to you as an Honorary Member of the Society at the request of the ASCE Committee on the History and Heritage of American Civil Engineering to bring attention to the possibility that you may wish to place papers of historical significance to the civil engineering profession in the Biographical Archives of the Smithsonian Institution, Washington, D.C. There such material would become available to scholars for historical research. It is hoped that these archives would grow through a systematic and continuing program of gathering such papers from files of contemporary leaders of the civil engineering profession."

The collection consists of correspondence with the curator and members of the group of consultants for various dam projects, reports by various municipalities, reports by consulting firms, copies of papers published by the American Society of Civil Engineers, technical magazine articles, and Federal Government publications.

Since the investigation of the location for dams, the analysis of the feasibility of the project, and the final construction of dams was the main thrust of the professional work of Julian Hinds, his alphabetical listing of dams that he had some activity with forms the basis for referencing most of the collection. There was a fire that destroyed some of the material he had collected over the years, and that may account for the fact that some listed dams have no recorded reports etc.. The collection contains, however, a 124 page summary by Julian Hinds entitled "A Descriptive Listing Of The Writer's Dams" that does briefly refer to all dams in Series 2..

In addition to the reports on dams, the collection included publications etc. on the subjects of aqueducts, linings for canals, steel and concrete pipe, research and design, international meetings, and books/pamphlets on the dams in California and Washington.
Julian Hinds Collection, 1881 - 1975 (14.2 cubic feet; 41 DB)

Series I: Notes and Papers of Julian Hinds;

This series consists of a "Summary of Experience to August 13, 1971", by Julian Hinds, an oral history of Julian Hinds published by the University of California, articles and selected papers published by engineering society and technical magazines, two Handbooks with Section Articles by Hinds, and one photograph.

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<td>Correspondence with Curator 1971-1975.</td>
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<td>Dam by Julian Hinds, from Encyclopaedia Britannica, pp. 11-20, 1971.</td>
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<td>A Salute to The Beavers, The Beavers 1st Annual Awards Dinner, Los Angeles, CA, Jan. 25, 1956.</td>
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<td>36</td>
<td>6</td>
<td>Western Dam Engineer-Julian Hinds, Copyright 1971, The Regents of the University of California, (300/85) pp. 239.</td>
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### Series 2; Hinds List of Dams

This series consists of correspondence, Board of Consultants reports, consulting engineering firm reports, Federal agencies reports, State and local water district reports, maps, photographs, and "A Descriptive Listing Of The Writer's Dams by Julian Hinds". This series is based upon the Alphabetical Index of Hind's with references to this unpublished April 3, 1973, 124 page work.

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**AMERICAN FALLS**

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36 2 (HINDS) page 69.

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36 2 (HINDS) page 24.
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(BOULDER) See HOOVER Dam

BRUSH CREEK

Reports:

36 2  (HINDS) page 83.
12 2  Sacramento Municipal Utility District (SMUD), Basic Design Report For Brush Creek Arch Dam, Bechtel Corp. July 1967.
12 3  (SMUD), Basic Design Report For Brush Creek Arch Dam, Bechtel Corp., Revised May 1968.

Maps/Drawings:

12 5  Miscellaneous 1968-1970

(BUCK ISLAND RESERVOIR) Insert

Maps:

12 1  Sacramento Municipal Utility District, Upper American River Project, Buck Island Reservoir - Dams, General Arrangement, Plan, Profile, & Sections, Bechtel Corp., ND

BULL RUN

Correspondence:

28 1  January 1956 - Feb. 9, 1962

Reports:

36 2  (HINDS) page 114.
28 2  City of Portland, Oregon (CPO), Bull Pun Storage Dam No. 2, Map and Statistical Data, Bureau of Water Works City of Portland, 1956.
28 3  (CPO), Report On Bull Run Storage Dam No. 2 And Hydroelectric Power Facilities, Stevens & Thompson, Apr. 1957 (Two Copies)

For more information contact the Archives Center at archivescenter@si.edu or 202-633-3270
Box   Folder   (COP), Specifications, Contract No. I, Tunnels, Intake
          Structures And Outlet Works, Bull Run Dam No. 2, Stevens & Thompson, Feb. 1958.
28   4

(COP), Specifications, Contract No. 2, Dam And Spillway
Stevens & Thompson, May 1959.
28   5

(COP), Addenda and Notice to Contractors and Part V
Proposal And Forms To Accompany Plans and Specifications for Contract No. 2 Construction
of the Dam and Spillway Bull Run Dam No. 2, Stevens & Thompson, May 1959.
28   6

(COP), Supplementary Specifications For Rock Fill Dam
for Contract No. 2, Bull Run Dam No. 2, Stevens & Thompson, Apr. 17, 1961; and
Supplemental Agreement, dated Apr. 18, 1961 attached.
28   7

Maps/Drawings:
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7 Maps/Drawings—Dam Sections and Topography of Site

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1   1

Metropolitan Water District of Southern California

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(MWDSC), Lake Mathews Enlargement Project, Review
Memorandum 1, Seeage? Study of Existing Dike and Foundation, Bechtel
Corporation, December 1957.

1   3

(MWDSC), Review of Metropolitan Water District Dams,
Lake Mathews, Bechtel Corporation, August 1965.

Maps/Drawings:
1   4

Lake Mathews Enlargement, Mathews Dam, Cross Sections,
October 1958.

CALLES

Reports:
36   2

(HINDS) page 54.
CAMINO

Reports:

36 2 (HINDS) page 84.

10 3 Sacramento Municipal Utility District, (SMUD),
Invitation No. 2213, Invitation, Instructions To Bidders, Bid and Contract Forms,
Specifications, and Drawings, Camino Dam, Tunnel Intake and Appurtenant Works for Upper

10 4 SMUD, Design Revision For Camino Arch Dam, Bechtel
Corp., April, 1960.

10 5 SMUD, Basic Design Report for Camino Arch Dam, Bechtel
Corp., Revised September 1960.

10 6 Review of Design Procedures for Camino Dam, Robert E.

Maps/Drawings:

10 7 SMUD, Miscellaneous loose maps, 1959.

27 1 SMUD, Location Map (1-27-58) & Camino Reservoir Plan
(9-1-59)

CAMANCHE

Reports:

36 2 (HINDS) page 84.

11 1 East Bay Municipal Utility District (EBMUD), Report On

11 2 EBMUD, Mokelumne River Development Report For

11 3 EBMUD, Camache Dam and Reservoir Geologic Report,

11 4 EBMUD, Supplement To Basic Design Report Camache Dam

Maps/Drawings:

11 5 Miscalleaneous Loose Maps, 1961-?.
CARMEN (Carmen-Smith Hydroelectric Project)

Correspondence:

10 1

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36 2
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10 2

CASTAIC

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36 2
(HINDS) page 108.

31 1
Department of Water Resources (DWR), Basic Data Report On Test Fill Of Potential Impervious Core Materials For Castaic Dam, February 1967.

31 2

31 3
(DWR), Report On Studies Of Soil-Cement For Castaic Dam Jan. 1969

31 4
(DWR), Castaic Dam INSTRUMENTATION Results, April 1, 1971, 1972, and 1973.

31 5
(DWR), Agenda and Background Information for First Meeting Of The Castaic Dam Consulting Board, Thursday and Friday, Oct. 25 and 26, 1962; Castaic Dam Consulting Board Data, June 25, 1970.

CAVE CREEK

Reports:

(HINDS) page 25.
CEDAR SPRINGS

Reports:

36 2  (HINDS) page 109.

32 1  (DWR), Bulletin No. 132-67. The California State
       Water Project in 1967, Appendix C; Development and Status/June 1967. (Note: Also in
       Series 5: under Dams, California)

32 2  (DWR), Cedar Springs Design Report, August 21, 1967

32 3  (DWR), Cedar Springs Dam Geological Data. Nineteenth
       Meeting of The Earth Dams Consulting Board, Feb. 28, 29, and March 1, 1968

32 4  (DWR), Specifications Bid And Contract For Construction
       Of Cedar Springs Dam, Specification No. 68-30, Volume 1 1968

32 5  (DWR), Water Science & Engineering Papers 1028,
       Hydraulic Model Study of the Chute Spillway For Cedar Springs Pain, Feb. 1969,
       Department of Water Science and Engineering, Univ. Of Calif., Davis.

32 6  (DWR), Cedar Springs Dam Instrumentation Results

CHATSWORTH

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36 2  (HINDS) page 115

CHIEF JOSEPH

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36 2  (HINDS) page 69

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8  COPPER BASIN (See Gene Wash—Reported Together)

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36 2  (HINDS) page 63.

8  CORONA DEL MAR

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36 2  (HINDS) page 68.

8 6  MWDSC, Corona Del Mar Reservoir Preliminary Report.

DEER FLAT LOWER

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36 2  (HINDS) page 27.

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36 2  (HINDS) page 27.
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36 2 (HINDS) page 28.

25 DEL VALLE

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36 2 (HINDS) page 109.

25 1 Department of Water Resources, State of California, 
Agency And Background Information For Earth Dams Consulting Board Meeting, Main 
Subject - Del Valle Dam, Dec. 9 & 10, 1963.

29 7 (DWR), Specification No. 66-01, Specifications Bid 
And Contract for Construction of Del Valle Dam and Reservoir, 1966.

29 8 (DWR), Hydraulic Model Study Of The Shaft Spillway 
For Del Valle Dam, Water Science & Engineering Papers Dept. of Water Science, U of 

29 9 (DWR), Del Valle Dam Instrumentation Results Between 

DETROIT

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36 2 (HINDS) page 79.

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36 2 (HINDS) page 57.
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36 2 (Hinds) page 86.

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36 2 (Hinds) page 8.

EL TORO

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36 2 (Hinds) page 113a.

4 FLAMING GORGE

4 1 Correspondence: 1959 -1961
4 2 Photographs: Identified (1960)

Photograph of Julian Hinds, Consulting Engineer with representatives of the (USER) Chief Engineer's Office; keyways etc..

4 3 Photographs: (Unidentified)

Reports:

36 2 (Hinds) page 47.


4 6 USER, Technical Data for the Use of the Board of Consultants Flaming Gorge Dam Colorado River Storage Project, May 16, 1960; and September 15, 1961.

4 7 USER, Comparison of Analytical and Structural Behavior Results for Flaming Gorge Dam, Research Report No. 14, 1968.


24 FLORENCE LAKE

Correspondence:

24 1 Apr. 1952-Nov. 1952

24 2 Dec. 1960-June 1964

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(Hinds) page 86.

FORBESTOWN

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36 2 (Hinds) page 86.

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8 4 Letters 1964-1965

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<td>(SMUD), Gerle Diversion - Robbs Peak Dam General Arrangement Plan, Profile &amp; Sections, Bechtel Corp., ND.</td>
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<td>Photographs: Identified (1960 - 1963) Upstream and downstream at the excavation of the floor of the canyon; keyways; and diversion tunnel.</td>
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<td>USBR, Technical Data for Use of Board of Consultants, Glen Canyon Dam, Colorado River Storage Project, May 23, 1958; April 17, 1959; and September 15, 1961</td>
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<td>USBR, Concrete Laboratory Report No. C-851, May 27,</td>
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Board of Consultants, Foundation Adequacy and Design Considerations of Glen Canyon Dam, May 7, 1959; June 16, 1959; May 5, 1960 (2 copies).


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GURNSEY

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36 2
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HARD LUCK

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36 2
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HIGH MOUNTAIN SHEEP DAM (An Insert): Dam not constructed.

Correspondence:
13 6

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13 2
(PNPC), Proposal Foundation Investigation, High Mountain Sheep Hydroelectric Development, (PNPC), July 1964.
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<td>(PNPC), High Mountain Sheep Hydroelectric Development, Report On Investigations of Site Geology for Pacific Northwest Power Company, Ebasco Services Incorporated, April 1965; Copy No. 2</td>
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<td>(PNPC), Project No. 2243, Before Federal Power Commission Application For License For Middle Snake River Hydro-Electric Project On The Middle Snake River In The States Of Idaho And Oregon, Fourth Amendment, Jan. 1968.</td>
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**HILLS CREEK**

Correspondence:

- Letters and related photographs, maps, etc. from 1955 to July 1959.

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36  2  (Hinds) page 71.

HOOVER (BOULDER)

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36  2  (Hinds) page 30.

The Colorado River Commission of the State of California, Colorado River And The Boulder Canyon Project, Rex Hardy, Jan. 1, 1930.

**HORSE MESA**

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36 2                                  (Hinds) page 87.

ICE HOUSE

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36 2                                  (Hinds) page 88.

16 8                              (SMUD), Invitation No. 2111, Radial Gates, Gate Hoists, Discharge Valve, And Spillway Bridge Steel for Ice House Dam, Upper American River Project, Bechtel Corp., Nov. 12, 1958

Maps/Drawings:
16 9                              (SMUD), Ice House Dam Plan, Elevation & Sections, Bechtel Corp., ND.

16 9                              (SMUD), Ice House Dam Spillway Discharge Channel Plan and Profile, Bechtel Corp., Sept. 9, 1959.

IMPERIAL

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36 2                                  (Hinds) page 51.

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36 2                                  (Hinds) page 89.


JACKSON LAKE

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JAYBIRD (Not A DAM) Reports:

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(SMUD), Jaybird Tunnel Intake Struct.-Gen'l Arr'g'm't; Surge Shaft Overflow Basin; & Jaybird Penstock Plan & Profile Nov. 21, 1958 (2 Copies).

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16 4
(SMUD) Upper American River Project, Junction Dam Plan, Elevations And Sections, Bechtel Corp., ND.
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36 2 (Hinds) page 35.

1 LA SOLEDAD (MEXICO)

1 10 Correspondence, 1960:

IBRD January 21, 1960 letter "To Whom It May Concern" about lack of Passport renewal

Discussion by Julian Hinds, International Board of Consultants, La Soledad Dam, Mexico, April 26, 1960, 2 copies.


May 26, 1960, comments to the IBRD on the Comision Federal de Electricidad, of the City of Mexico, March 25, 1960, report. Draft and final copy.

July 19, 1960 letter from Julian Hinds to the IBRD.

Reports:

36 2 (Hinds) page 58.

1 11 Report by Julian Hinds and others for the International Bank for Reconstruction and Development (IBRD), January 30, 1960, "An appraisal of the Suitability of the Project Site For The Construction Of The Proposed Thin Arch Dam".

1 12 Comision Federal De Electricidad, Departamento De Obras Civiles, Oficina De Proyectos, Planta de Mazatepec, Vaso La Soledad: Location map and drawings. N.D.
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<td>Oroville-Wyandotte Irrigation District (OWID), South Fork Project, Little Grass Valley Dam General Plan &amp; Elevation, (For Bidding Purposes Only), Bechtel Corp., Mar. 5, 1959.</td>
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### Washington

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<th>Sub-Series 2: 2</th>
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Series 5: Irrigation Systems

This series consists of reports by Federal agencies, state and local organizations, and technical societies and magazines.

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<td><strong>Aqueduct</strong></td>
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<td><em>(MWDSC)</em> Preliminary Surveys, Designs, and Estimates for the Aqueduct and Terminal Storage Projects, December 1930.</td>
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<td><em>(MWDSC)</em>, <em>Water for People</em>, February 1963.</td>
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Flexible Culverts Under High Fills, Highway Research Board, Bulletin 125, 1956


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APPENDIX

List of Acronyms

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<th>Description</th>
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<tbody>
<tr>
<td>AHLC</td>
<td>American-Hawaiian Land Company</td>
</tr>
<tr>
<td>ASCE</td>
<td>American Society of Civil Engineers</td>
</tr>
<tr>
<td>AWWA</td>
<td>American Water Works Association</td>
</tr>
<tr>
<td>COP</td>
<td>City of Portland, Oregon</td>
</tr>
<tr>
<td>COVDPW</td>
<td>County of Ventura Department of Public Works</td>
</tr>
<tr>
<td>DWR</td>
<td>Department of Water Resources, State of California</td>
</tr>
<tr>
<td>EBMUD</td>
<td>East Bay Municipal Utility District</td>
</tr>
<tr>
<td>HBMWD</td>
<td>Humbolt Bay Municipal Water District</td>
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<tr>
<td>HINDS</td>
<td>A DESCRIPTIVE LISTING OF THE WRITER'S DAMS BY JULIAN HINDS</td>
</tr>
<tr>
<td>HSMS</td>
<td>Havard Soil Mechanics Series</td>
</tr>
<tr>
<td>IBRD</td>
<td>International Bank for Reconstruction and Development</td>
</tr>
<tr>
<td>IBWC</td>
<td>International Boundary and Water Commission</td>
</tr>
<tr>
<td>ICOLD</td>
<td>International Commission On Large Dams</td>
</tr>
<tr>
<td>JIAD</td>
<td>Journal of the Irrigation and Drainage Division, ASCE</td>
</tr>
<tr>
<td>MCFAWCD</td>
<td>Monterey County Flood Control And Water Conservation District</td>
</tr>
<tr>
<td>PHP</td>
<td>Mammoth Pool Hydroelectric Project</td>
</tr>
<tr>
<td>MRD</td>
<td>Merced River Development</td>
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<tr>
<td>MUD</td>
<td>Metropolitan Water District</td>
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<tr>
<td>MWDSC</td>
<td>Metropolitan Water District of Southern California</td>
</tr>
<tr>
<td>NMISC</td>
<td>New Mexico Interstate Stream Commission</td>
</tr>
<tr>
<td>ODISSJID</td>
<td>Oakdale Irrigation District and the South San Joaquin Irrigation District</td>
</tr>
<tr>
<td>OWID</td>
<td>Oroville-Wyndotte Irrigation District</td>
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<tbody>
<tr>
<td>PGEC</td>
<td>Portland General Electric Company</td>
</tr>
<tr>
<td>PNPC</td>
<td>Pacific Northwest Power Company</td>
</tr>
<tr>
<td>PPL</td>
<td>Pacific Power and Light</td>
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<tr>
<td>PUCCW</td>
<td>Public Utility District No. 1 of Chelan Co., WA</td>
</tr>
<tr>
<td>PUDDC</td>
<td>Public Utility District No. 1 of Douglas Co., East Wenatchee, WA.</td>
</tr>
<tr>
<td>SCEC</td>
<td>Southern California Edison Company</td>
</tr>
<tr>
<td>SFWD</td>
<td>San Francisco Water Department</td>
</tr>
<tr>
<td>SMUD</td>
<td>Sacramento Municipal Utility District</td>
</tr>
<tr>
<td>TAMID</td>
<td>Turlock And Modesto Irrigation Districts</td>
</tr>
<tr>
<td>USER</td>
<td>United States Bureau of Reclamation</td>
</tr>
<tr>
<td>USCOLD</td>
<td>United States Committee on Large Dams</td>
</tr>
<tr>
<td>USDA</td>
<td>United States Department of Agriculture</td>
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<tr>
<td>USDI</td>
<td>United States Department of The Interior</td>
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<tr>
<td>UWCDOV</td>
<td>United Water Conservation District of Ventura, CA</td>
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