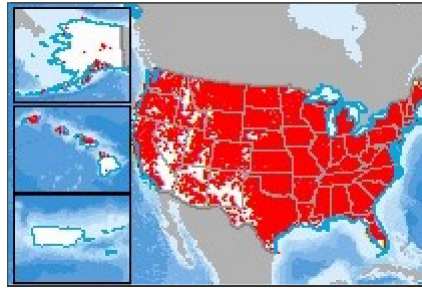


Dams



Tags

dams, Army Corps of Engineers, National Inventory of Dams

Summary

The goal of the National Inventory of Dams (NID) is to include all dams in the United States that meet these criteria, yet in reality, is limited to information that can be gathered and properly interpreted with the given funding. The NID initially consisted of approximately 45,000 dams, which were gathered from extensive record searches and some feature extraction from aerial imagery. Since continued and methodical updates have been conducted, data collection has been focused on the most reliable data sources, which are the many federal and state government dam construction and regulation offices. In most cases, dams within the NID criteria are regulated (construction permit, inspection, and/or enforcement) by federal or state agencies, who have basic information on the dams within their jurisdiction. Therein lies the biggest challenge, and most of the effort to maintain the NID; periodic collection of dam characteristics from 49 states (Alabama currently has no dam safety legislation or formal dam safety program), Puerto Rico, and 18 federal offices. USACE resolves duplicative and conflicting data from the 68 data sources, which helps obtain the more complete, accurate, and updated NID. Historically, the NID has been published every two years. Starting in 2019, the NID will be updated annually.

Congress first authorized the U.S. Army Corps of Engineers (USACE) to inventory dams in the United States with the National Dam Inspection Act (Public Law 92-367) of 1972. The NID was first published in 1975, with a few updates as resources permitted over the next ten years. The Water Resources Development Act of 1986 (P.L. 99-662) authorized USACE to maintain and periodically publish an updated NID, with re-authorization and a dedicated funding source provided under the Water Resources Development Act of 1996 (P.L. 104-3). USACE also began close collaboration with the Federal Emergency Management Agency (FEMA) and state regulatory offices to obtain more accurate and complete information. The National Dam Safety and Security Act of 2002 (P.L. 107-310) and the Dam Safety Act of 2006 reauthorized the National Dam Safety Program and included the maintenance and update of the NID by USACE. More recently, the NID was reauthorized as part of the Water Resources Reform and Development Act of 2014 and the Water Resources Development Act of 2018. The NID uses a single point to locate a dam. The NID consists of dams meeting at least one of the following criteria; 1) High hazard potential classification - loss of human life is likely if the dam fails, 2) Significant hazard potential classification - no probable loss of human life but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns, 3) Equal or exceed 25 feet in height and exceed 15 acre-feet in storage, 4) Equal or exceed 50 acre-feet storage and exceed 6 feet in height.

Description

Depicts dams in the U.S. meeting at least one of the following criteria; 1) High hazard potential classification - loss of human life is likely if the dam fails, 2) Significant hazard potential classification - no probable loss of human life but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns, 3) Equals or exceeds 25 feet in height and exceeds 15 acre-feet in storage, 4) Equals or exceeds 50 acre-feet storage and exceeds 6 feet in height.

Credits

U.S. Army Corps of Engineers

Use limitations

There are no access and use limitations for this item.

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:20,000,000

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters, structure

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

Citation

TITLE Dams

PUBLICATION DATE 2022-04-28

PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY

ORGANIZATION'S NAME U.S. Army Corps of Engineers

CONTACT'S ROLE originator

Resource Details

DATASET LANGUAGES * English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS on-going

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.0.12790

CREDITS

U.S. Army Corps of Engineers

ARCGIS ITEM PROPERTIES

* NAME dam_site_v2

Extents

EXTENT

TEMPORAL EXTENT

DATE AND TIME 2022-04-28

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -19668742.033221

* EAST LONGITUDE -7310573.392450

* SOUTH LATITUDE 1500949.125104

* NORTH LATITUDE 11494074.007483

* EXTENT CONTAINS THE RESOURCE Yes

Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY unknown

Spatial Reference

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984

* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100

X ORIGIN -22041257.952553775

Y ORIGIN -30241100

XY SCALE 144148035.48642668

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 0.001

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3857

WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 3857

* CODESPACE EPSG

* VERSION 8.8(9.3.1.2)

Spatial Data Properties

VECTOR

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME dam_site_v2

* OBJECT TYPE point

* OBJECT COUNT 91834

ARCGIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME dam_site_v2

* FEATURE TYPE Simple

* GEOMETRY TYPE Point

* HAS TOPOLOGY FALSE

* FEATURE COUNT 91834

* SPATIAL INDEX TRUE

* LINEAR REFERENCING TRUE

Distribution ►

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT dam_site_v2

* TYPE Feature Class

* ROW COUNT 91834

FIELD OBJECTID_1 ALIAS OBJECTID_1

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

FIELD Shape

* ALIAS Shape

* DATA TYPE Geometry

* WIDTH 0

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Coordinates defining the features.

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* WIDTH 4

* PRECISION 0

FIELD NIDID

* ALIAS NIDID

* DATA TYPE String

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* PRECISION 0

* SCALE 0

FIELD OTHER_STRU

* ALIAS OTHER_STRU

* DATA TYPE String

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD FEDERAL_ID

* ALIAS FEDERAL_ID

* DATA TYPE String

* WIDTH 12

* PRECISION 0

* SCALE 0

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- * ALIAS DATA_UPDAT
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- * SCALE 0

FIELD NAME

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- * SCALE 0

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- * SCALE 0

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FIELD DRAINAGE_A

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- * PRECISION 0
- * SCALE 0

FIELD WIDTH_OF_L

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- * PRECISION 0
- * SCALE 0

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- * DATA TYPE String
- * WIDTH 85
- * PRECISION 0
- * SCALE 0

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- * SCALE 0

FIELD LAST_INSPE

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- * SCALE 0

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FIELD RISK_ASSES

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Metadata Details

* METADATA LANGUAGE English (UNITED STATES)
* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

* LAST UPDATE 2022-08-24

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2022-08-24

LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-08-24

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2022-08-24

Metadata Contacts

METADATA CONTACT	
ORGANIZATION'S NAME	U.S. Army Corps of Engineers
CONTACT'S ROLE	distributor

Metadata Maintenance

MAINTENANCE	
UPDATE FREQUENCY	unknown