

Aqueduct Projections



Tags

Water, water stress, water supply, water demand, seasonal variability, global, climate

Summary

The Aqueduct Water Stress Projections include indicators of change in water supply, water demand, water stress, and seasonal variability, projected for the coming decades under scenarios of climate and economic growth.

Description

Both private and public sectors see the need to plan for potential changes in water availability caused by climate change and economic development. While significant effort has been made to develop long-term projections of changes in water availability caused by climate change, these projections are often for time periods too far in the future to be salient to decision makers.

With the goal of producing information for decadal-scale planning, adaptation, and investment, this analysis models potential changes in future demand and supply of water over the next three decades. Globally we estimate indicators of water demand (withdrawal and consumptive use), water supply, water stress (the ratio of water withdrawal to supply), and intra-annual (seasonal) variability for the periods centered on 2020, 2030, and 2040 for each of two climate scenarios, RCP4.5 and RCP8.5, and two shared socioeconomic pathways, SSP2 and SSP3. We derived estimates from general circulation models (GCMs) from the Coupled Model Intercomparison Project Phase 5 (CMIP5) and mixed-effects regression models based on projected socioeconomic variables from the International Institute for Applied Systems Analysis (IIASA)'s Shared Socioeconomic Pathways (SSP) database. Full documentation is available online at: <http://www.wri.org/publication/aqueduct-water-stress-projections>

Credits

Suggested Citation: Luck, M., M. Landis, F. Gassert. 2015. "Aqueduct Global Maps 2.1." Washington, DC: World Resources Institute. Available online at <http://www.wri.org/publication/aqueduct-water-stress-projections>.

Use limitations

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Extent

West -119.572622 East -59.712398
North 64.312526 South 24.545959

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

* CONTENT TYPE Downloadable Data

Citation ►

TITLE Aqueduct Projections

PUBLICATION DATE 2015-04-01 00:00:00

PRESENTATION FORMATS * digital map

Citation Contacts ►

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Luck, M., M. Landis, F. Gassert

ORGANIZATION'S NAME World Resources Institute

CONTACT'S ROLE originator

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

CREDITS

Suggested Citation: Luck, M., M. Landis, F. Gassert. 2015. "Aqueduct Global Maps 2.1." Washington, DC: World Resources Institute. Available online at <http://www.wri.org/publication/aqueduct-water-stress-projections>.

Extents ►

EXTENT

DESCRIPTION

Periods centered on 2020, 2030, and 2040.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -119.572622

* EAST LONGITUDE -59.712398

* NORTH LATITUDE 64.312526

* SOUTH LATITUDE 24.545959

* EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2020-01-01 00:00:00

ENDING DATE 2040-01-01 00:00:00

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -13310763.418207

* EAST LONGITUDE -6647153.749113

* SOUTH LATITUDE 2820078.071119

* NORTH LATITUDE 9429574.291314

* EXTENT CONTAINS THE RESOURCE Yes

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY unknown

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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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 -22041545.196626503

Y ORIGIN -33272760.666300893

XY SCALE 135368852.55357128

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 8.2.6

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME aqueduct_projections

* OBJECT TYPE composite

* OBJECT COUNT 660

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME aqueduct_projections

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE

* FEATURE COUNT 660

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

Distribution ▶**DISTRIBUTION FORMAT**

- * NAME File Geodatabase Feature Class

Fields ▶**DETAILS FOR OBJECT** aqueduct_projections ▶

- * TYPE Feature Class
- * ROW COUNT 660

FIELD OBJECTID ▶

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Internal feature number.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD Shape ▶

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- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Coordinates defining the features.

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- * SCALE 0
- * FIELD DESCRIPTION
Length of feature in internal units.
- * DESCRIPTION SOURCE
Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

FIELD Shape_Area ►

* ALIAS Shape_Area

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Area of feature in internal units squared.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

Metadata Details ►

* METADATA LANGUAGE English (UNITED STATES)

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

* LAST UPDATE 2015-06-29

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

METADATA STYLE FGDC CSDGM Metadata

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AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2015-06-29 16:07:09

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ORGANIZATION'S NAME Argonne National Laboratory

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