



WRDS Digital Products Update

Basin Advisory Group Meetings
2010

Who are we?

- The Water Resources Data System (WRDS) is a clearinghouse of hydrological and climatological data for the State of Wyoming.
- WRDS is funded by the Wyoming Water Development Office and housed within the Department of Civil and Architectural Engineering at the University of Wyoming.
- The Wyoming State Climate Office (SCO) is a branch of WRDS, and together we provide a variety of services ranging from the development of enhanced drought-monitoring products to the online dissemination of water resources publications.
- WRDS and the SCO also support a variety of stakeholder groups by assisting in the development of the State Water Plan and helping to coordinate long-term monitoring efforts throughout the region.

WRDS Climate Data

Climate Data that can be directly used in the Basin Planning Process.


Wyoming State Climate Office - Data - Windows Internet Explorer

http://www.wrds.uwyo.edu/sco/data/data.html

Wyoming State Climate Office - Data

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Climate Data

The State Climate Office offers several climate data products related to precipitation and temperature for Wyoming.

- [1971-2000 Climate Normals](#)
- Comparison of 1971-2000 and 1961-1990 Normals
 - [Precipitation](#)
 - [Maximum Temperature](#)
 - [Minimum Temperature](#)
 - [Mean Temperature](#)

Temperature Products

- [Climate Division Temperature Charts and Data](#)

Precipitation Products

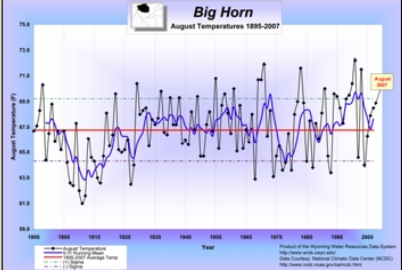
- [Water Year Precipitation \(NWS COOP\) \(2003-2009\)](#)
- [Statewide Precipitation Departures from Normal](#)
- [Climate Division Precipitation Charts and Data](#)
- [USDA Crop Weather Report](#)

* Water Resources Data System (WRDS)

The Water Resources Data System is a clearinghouse of hydrological and climatological data for the State of Wyoming. Funded by the Wyoming Water Development Office, the System offers a wide range of products and services to its users.

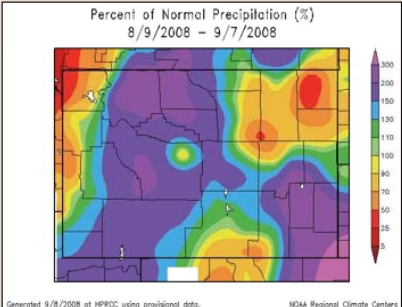
Big Horn

August Temperatures 1955-2007



Percent of Normal Precipitation (%)

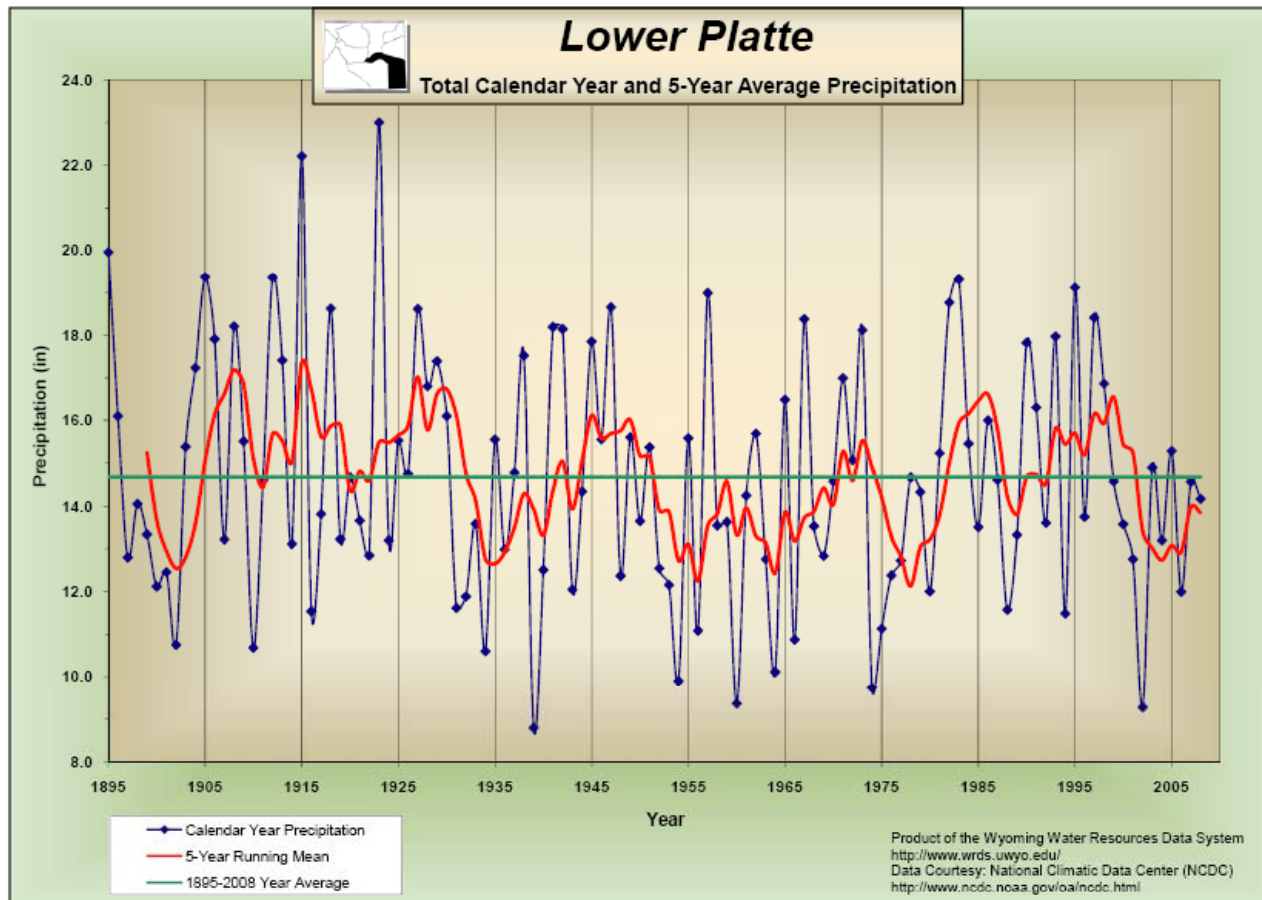
8/9/2008 - 9/7/2008



Generated 9/8/2008 at WYRDC using provisional data. NOAA Regional Climate Center

WRDS Climate Data

Precipitation Data



WRDS Climate Data

Climate Data that can be directly used in the Basin Planning Process.

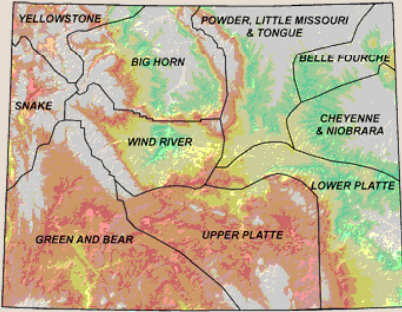
Wyoming State Climate Office - Windows Internet Explorer

http://www.wrds.uwyo.edu/sco/data/divisional_precip/divisional_precip.html

Wyoming State Climate Office

Wyoming Precipitation Charts and Data

Generated monthly, these graphs and their related data show monthly precipitation vs. the long-term mean (1895-present) for each Climate Division. Graphs and data are also available for the 5-year moving average precipitation totals.

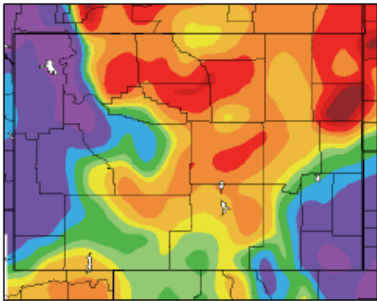


	Belle Fourche	Big Horn	Cheyenne & Niobrara	Green & Bear	Lower Platte	Powder, Little Missouri & Tongue	Snake	Upper Platte	Wind River	Yellowstone
Month	Graph Data	Graph Data	Graph Data	Graph Data	Graph Data	Graph Data	Graph Data	Graph Data	Graph Data	Graph Data
Monthly Average Precipitation										
Jan 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Feb 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Mar 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Apr 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
May 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Jun 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Jul 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Aug 2009	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Sep 2008	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Oct 2008	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Nov 2008	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●
Dec 2008	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●

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New Thinking

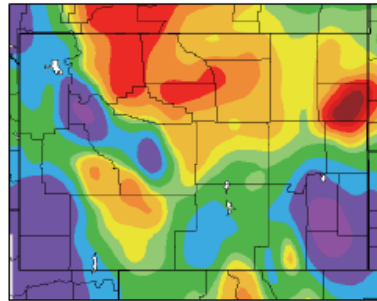
Wyoming Precipitation

Percent of Normal Precipitation (%)
4/3/2010 - 5/2/2010



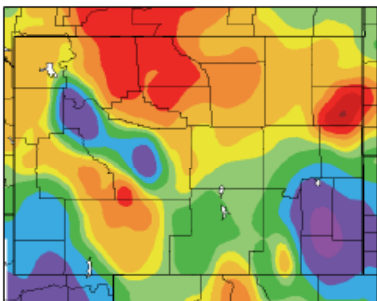
Past 30 days

Percent of Normal Precipitation (%)
3/4/2010 - 5/2/2010



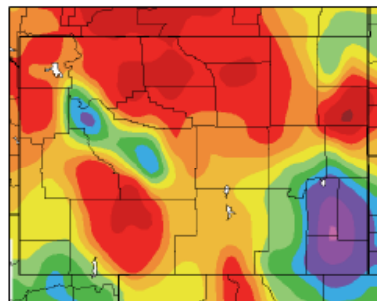
Past 60 days

Percent of Normal Precipitation (%)
2/2/2010 - 5/2/2010



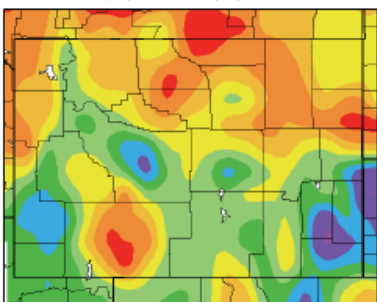
Past 90 days

Percent of Normal Precipitation (%)
11/3/2009 - 5/2/2010



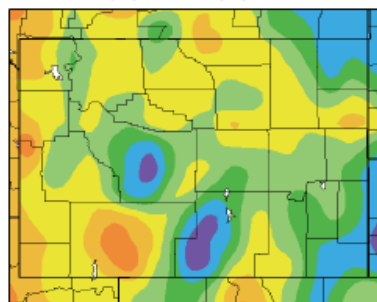
Past 6 months

Percent of Normal Precipitation (%)
5/3/2009 - 5/2/2010



Past 12 months

Percent of Normal Precipitation (%)
5/3/2008 - 5/2/2010



Past 24 months

Departures from Normal

- 30 Days
- 60 Days
- 90 Days

- 6 months
- 12 months
- 24 months

GIS Data For Download

Example: Statewide Framework Plan

Wyoming State Water Plan - Windows Internet Explorer

http://waterplan.state.wy.us/plan/statewide/gis/gis.html

Wyoming State Water Plan

Citizen Government Business Visitor

Wyoming State Water Plan
Wyoming Water Development Office
6920 Yellowtail Rd
Cheyenne, WY 82002
Phone: 307-777- 7626

News and Information

- ◆ Newsletter
- ◆ Water Planning Process History
- ◆ Historical Planning Documents
- ◆ Wyoming Water Facts

River Basin Plans

- ◆ Statewide Framework Plan
- ◆ Bear River Basin
- ◆ Green River Basin
- ◆ NE River Basin
- ◆ Platte River Basin
- ◆ Powder/Tongue River Basin
- ◆ Snake/Salt River Basin
- ◆ Wind/Bighorn River Basin

Basin Advisory Groups

- ◆ Mission and Purpose
- ◆ Calendar
- ◆ Agendas
- ◆ Meeting Records
- ◆ Reference Material

Planning Products

- ◆ GIS Web Mapping
- ◆ Framework Water Plan
- ◆ Platte Water Atlas
- ◆ Water Search Engine
- ◆ Send Us Your Comments

Partners

- ◆ State Engineer's Office
- ◆ Water Resources Data System

Contact Us

[Water Plan Home Page](#)

**Statewide Framework Plan
GIS Products**

- ◆ [How to Download Shapefiles](#)
- ◆ [Download ArcExplorer by ESRI](#) - Free GIS Data Viewer

Shapefile/Database	Metadata	Scale	Type	Source
Agriculture				
Irrigated Land	Metadata	1:24,000	Polygon	WWC/Greenwood Mapping
Points of Diversions	Metadata	1:24,000	Point	WWC/Greenwood Mapping
Wells	Metadata	1:24,000	Point	WWC/Greenwood Mapping
Reservoirs	Metadata	1:24,000	Polygon	WWC/Greenwood Mapping
Gaging Stations	Metadata	1:24,000	Point	WWC/Greenwood Mapping
Opportunities	Metadata	1:24,000	Point	WWC/Greenwood Mapping
Linking Table	Metadata	N/A	Database	WWC/Greenwood Mapping
Permits	Metadata	N/A	Database	WWC/Greenwood Mapping

Internet 100%

Online GIS Mapping


Wyoming State Climate Office - Windows Internet Explorer

http://www.wrds.uwyo.edu/sco/gis/IMS.html

File Edit View Favorites Tools Help

Wyoming State Climate Office

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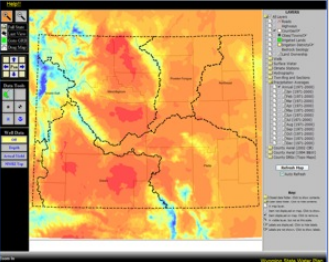


Wyoming Climate
Wyoming Weather
Climate Change
Climate Data
Other Data Sources
CoCoRaHS
Drought
GIS Web Mapping
Education & Outreach
Research Support
News
Partners
 ♦ WRDS
 ♦ WWDO
 ♦ AASC
Contact Us
State Climate Homepage
GA Position
Announcement

UNIVERSITY OF WYOMING
New Thinking

GIS Web Mapping

As more and more municipalities, irrigation districts and other water related entities begin to utilize the World Wide Web, the WRDS and the State Climate Office have taken the opportunity to make water and climate data available using customized ArcIMS services. Customized ArcIMS applications allow users to examine numerous aspects of Wyoming water and climate simultaneously, and this approach provides "one stop shopping" for access to important sources of data and information. These efforts are funded by the Wyoming Water Development Office, and these tools will be a key component of updates to the State Water Plan.



* [Wyoming Water and Climate Map Server](#)

* [Powder River Basin IMS Web Mapping Site](#)

Important Notes:

1. Be sure to disable popup blockers or at least allow popups from .wrds.uwyo.edu before accessing the Map Server. Please check the documentation of your specific blocker for how to accomplish this. Not all layers are visible at all scales. Most layers are not visible when zoomed in closer than 1:24000 scale. Many layers are also not visible at the statewide scale, either. Be sure to zoom in to a general area of interest before turning on layers. If a layer is not visible at your current zoom level, the box next to it will be indicated with the following symbol
2. Please note that the first time the map is accessed, it may take 15-20 seconds to draw.
3. First time users are encouraged to read the **HELP** menu, located to the right of the screen, before using the IMS application.
4. Please be aware that certain browser toolbar buttons, ie refresh, back and forward, will not work with this application. You will need to use the IMS application tools to perform these tasks.
5. While WRDS strives to make this IMS application available at all times, please be aware that the application can be down at times for upgrades and data maintenance.
6. The IMS application will work with current dialup speeds, however the user should be aware that certain functions and drawing times will take longer. Please be patient. Application performance can be increased through the use of broadband access available from local telecommunication providers.

While every effort has been made to provide a useable and informative application, please be aware that the IMS is a work-in-progress. Although the utmost care has been taken to insure the accuracy of the mapping and attribute information.

Trusted sites 100%

Online GIS Mapping

http://ims2.wrds.uwyo.edu/Website/Statewide/viewer.htm - Windows Internet Explorer

http://ims2.wrds.uwyo.edu/Website/Statewide/viewer.htm

File Edit View Favorites Tools Help

http://ims2.wrds.uwyo.edu/Website/Statewide/viewe...

Home RSS Print Page Tools

Help **Climate** **Surface Water** **Groundwater**

Full State
Last View
Drag Map

Data Tools
Avg PPT
Publications

Well Data
Off
Depth
Actual Yield
MWBZ Top

Zoom In

LAYERS

- All Layers
- Roads
- Highways
- Counties
- Cities/Towns
- Irrigated Lands
- Irrigation Districts
- Bedrock Geology
- Land Ownership
- Wells
- Surface Water
- Climate Stations
- Hydrography
- Twn-Rng and Sections
- Precipitation Averages
- County Aerial (2002 CIR)
- County Aerial (1994 B&W)
- County DRGs (Topo Maps)

Refresh Map
 Auto Refresh

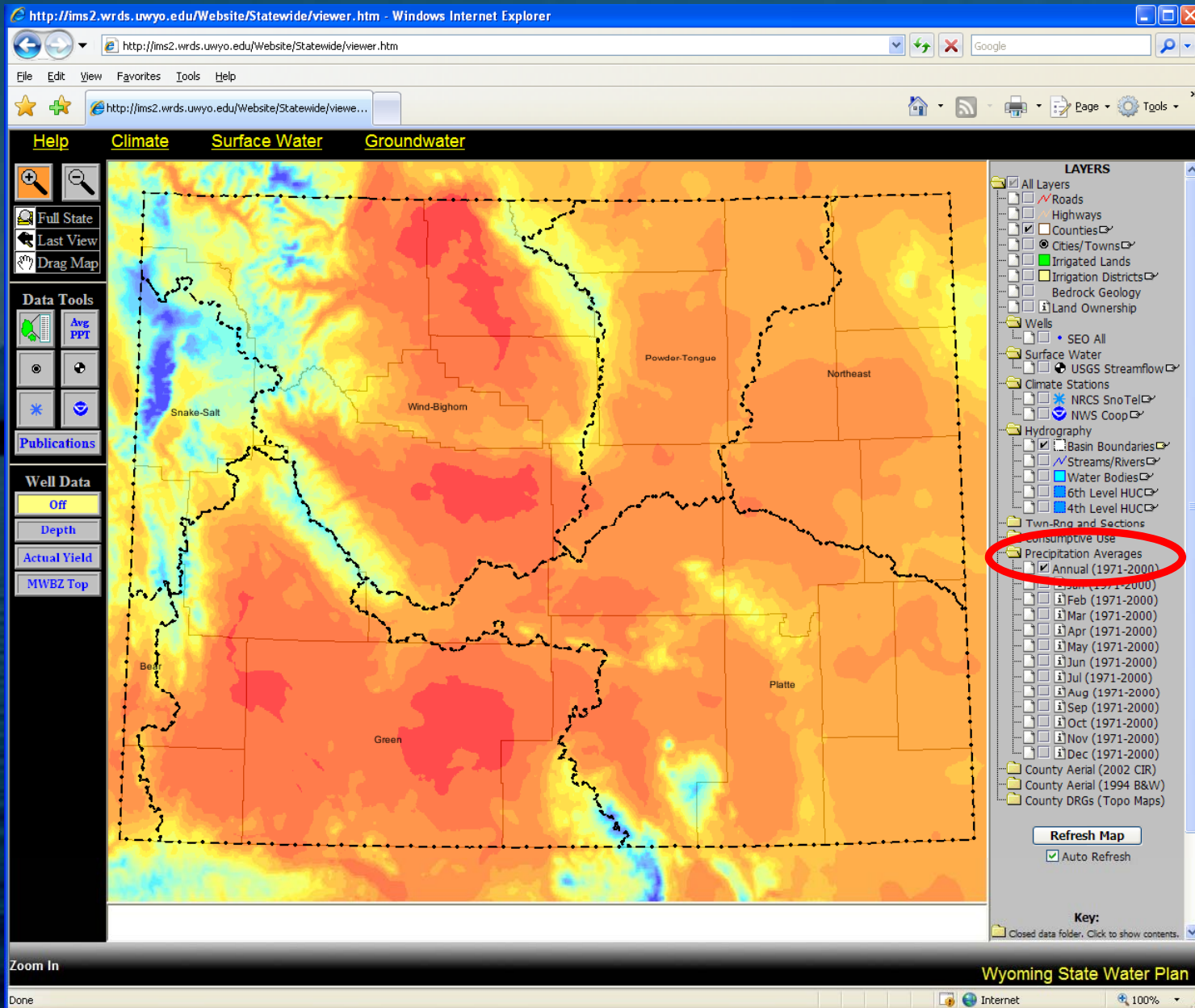
Key:

- Closed data folder. Click to show contents.
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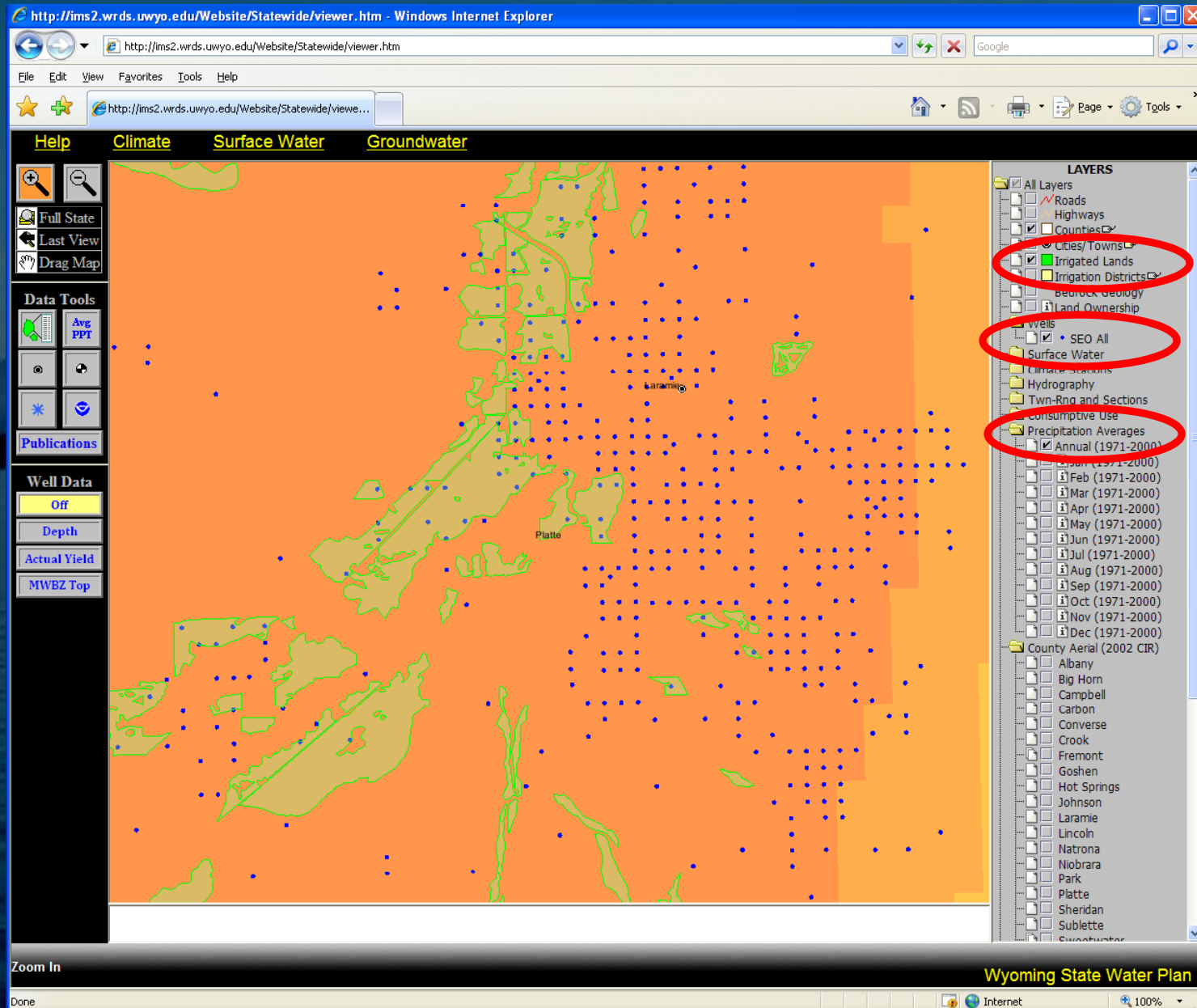
Wyoming State Water Plan

Internet 100%

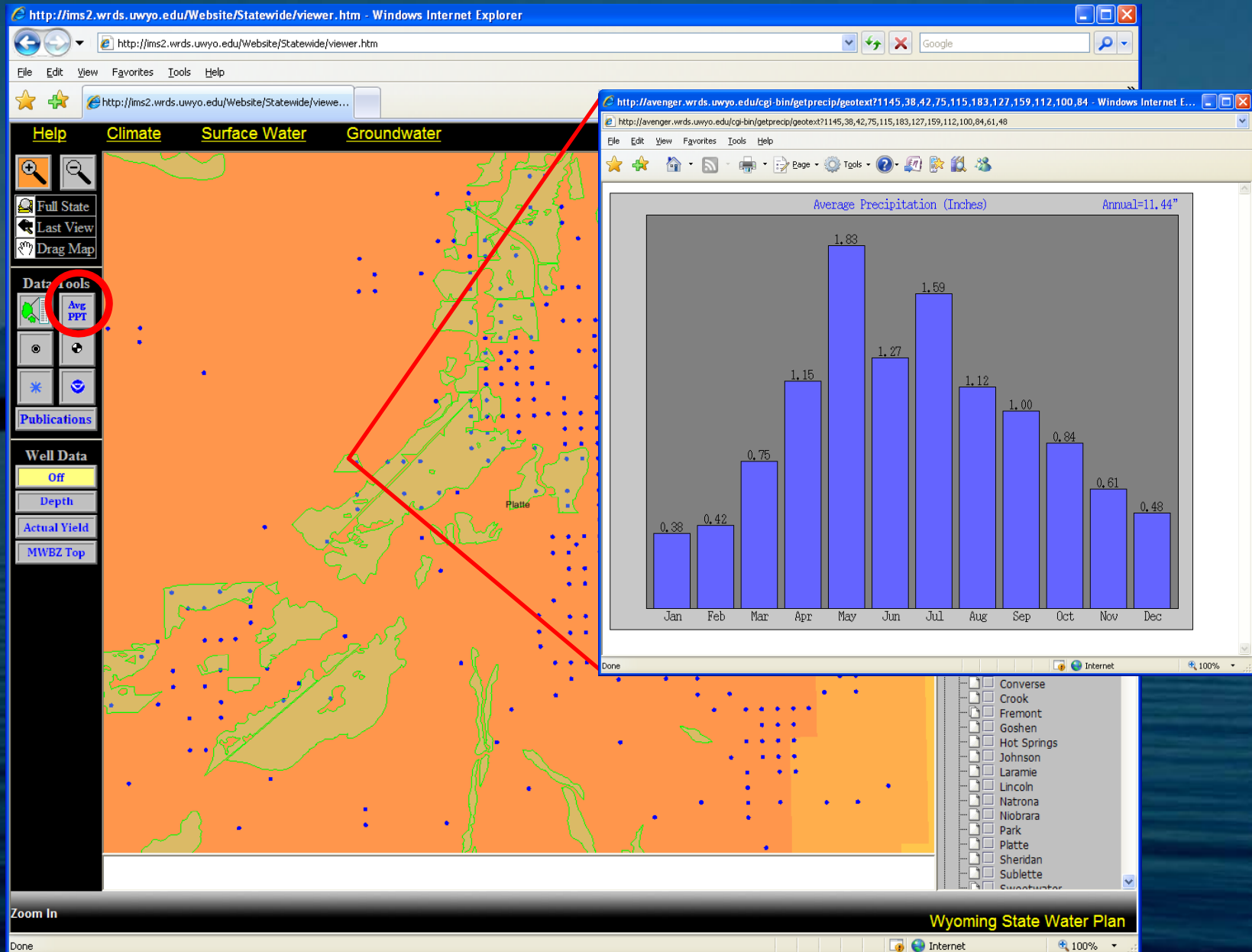
1971-2000 Precipitation Averages



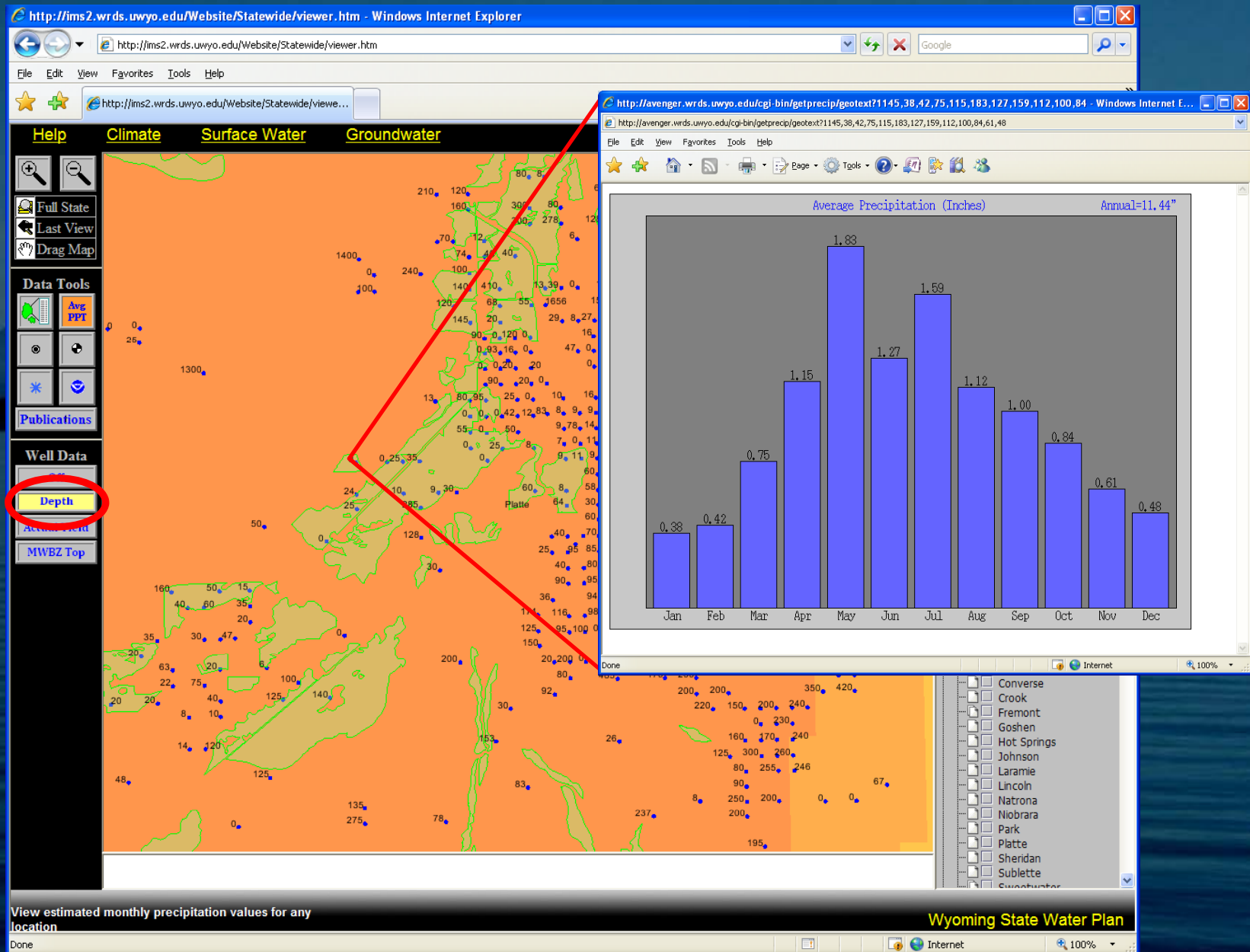
1971-2000 Precipitation Averages, SEO Wells & Irrigated Lands



1971-2000 Precipitation Averages, SEO Wells & Irrigated Lands



1971-2000 Precipitation Averages, SEO Wells & Irrigated Lands



GIS Mapping of Irrigated Lands

http://ims2.wrds.uwyo.edu/Website/Statewide/viewer.htm - Windows Internet Explorer

http://ims2.wrds.uwyo.edu/Website/Statewide/viewer.htm

File Edit View Favorites Tools Help

Help Climate Surface Water Groundwater

Full State Last View Drag Map

Data Tools Avg PPT

Publications

Well Data Off Depth Actual Yield MWBZ Top

Permits GR112 - Windows Internet Explorer

http://ims2.wrds.uwyo.edu:8080/GetInPermit.jsp?POLYID=GR112

Permit	Priority	Source	Facility	Use	Unit	Type	Status	Amount
3025 Enl.	21-Aug-1914	Horse Creek	Enl. Elkhorn Ditch	IRR	OS	ADJ	6.10	CFS
3032 Enl.	10-Sep-1914	Horse Creek	Enl. McGovern (Snider) D	IRR	OS	ADJ	4.60	CFS
3066 Enl.	30-Nov-1914	Horse Creek	Enl. Irwin No.1 Ditch	IRR	OS	ADJ	6.90	CFS
3069 Enl.	21-Nov-1914	Horse Creek	Enl. Smith Ditch	IRR	OS	ADJ	10.70	CFS
3135	24-Apr-1901	Horse Creek	Irwin Ditch	IRR	OS	ADJ	4.60	CFS
3151 Enl.	22-Mar-1915	Horse Creek	Enl. McGovern Ditch	IRR	OS	ADJ	2.30	CFS
3951 Enl.	01-Jun-1918	Horse Creek	Enl. Irwin No.1 Ditch	IRR	OS	ADJ	5.70	CFS
4010 Enl.	05-Jun-1919	Horse Creek	Enl. McGovern No.2 Ditch	IRR	OS	ADJ	1.80	CFS
4049	14-Jul-1902	Horse Creek	Smith Ditch	IRR	OS	ADJ	5.00	CFS
10559	11-Mar-1911	Lead Creek	Kannard Ditch	IRR	OS	ADJ	1.30	CFS
492 Enl.	11-Jan-1900	Horse Creek	Enl. Snyder Ditch	IRR	OS	ADJ	4.00	CFS
10560	11-Mar-1911	Lead Creek	Germain Ditch	IRR	OS	ADJ	2.60	CFS
11863	04-Dec-1912	Horse Creek	Ball No.2 Ditch	IRR	OS	ADJ	1.00	CFS
5100	09-Oct-1902	Horse Creek	Elk Horn (Moose Horn) Di	IRR	OS	ADJ	6.40	CFS
12612	06-Aug-1914	Horse Creek	Anderson Ditch	IRR	OS	ADJ	4.40	CFS
5781 Enl.	24-Nov-1954	Lead Creek	Enl. Germain Ditch	IRR	OS	ADJ	1.30	CFS
5861 Enl.	26-Apr-1956	Horse Creek	Enl. Lead Ditch	IRR	OS	ADJ	1.00	CFS
14709	28-Jun-1917	Frenchy Creek	Germain No.2 Ditch	IRR	OS	ADJ	.50	CFS
6060 Enl.	10-Jan-1961	Horse Creek	Enl. McGovern No.2 (Lead	IRR	OS	ADJ	1.30	CFS
6085	06-Jul-1904	Lead Creek	Conwell Ditch	IRR	OS	ADJ	1.30	CFS
6143 Enl.	01-Mar-1965	Lead Creek	Enl. Conwell Ditch	IRR	OS	ADJ	2.40	CFS
1656 Enl.	22-Dec-1906	Horse Creek	Enl. Irwin No.1 Ditch	IRR	OS	ADJ	1.80	CFS
1757 Enl.	22-Aug-1907	Horse Creek	Enl. Lead Ditch	IRR	OS	ADJ	2.30	CFS
1758 Enl.	05-Aug-1907	Lead Creek	Enl. Conwell Ditch	IRR	OS	ADJ	4.50	CFS
6477 Enl.	17-Apr-1973	Horse Creek	Enl. Irwin No.1 Ditch	IRR	OS	ADJ	.60	CFS
6478 Enl.	17-Apr-1973	Horse Creek	Enl. Hartley Ditch	IRR	OS	ADJ	1.10	CFS
6479 Enl.	17-Apr-1973	Horse Creek	Enl. Snider Ditch	IRR	OS	ADJ	.50	CFS
847 Enl.	23-May-1902	Horse Creek	Enl. Snider Ditch	IRR	OS	ADJ	4.60	CFS
1942	04-Jul-1898	Horse Creek	Snyder Ditch	IRR	OS	ADJ	4.60	CFS
1952 Enl.	03-Sep-1908	Horse Creek	Enl. Irwin No.1 Ditch	IRR	OS	ADJ	4.60	CFS
21791	09-Oct-1956	Horse Creek	Moose Horn Ditch	IRR	OS	ADJ	.30	CFS
Ter.	01-May-1889	Horse Creek	Hartley Ditch	IRR	OS	ADJ	11.40	CFS
24156	11-May-1972	Todd-Conwell Draw	Lead-Todd-Conwell Ditch	IRR	SS	ADJ		
2656	11-Jun-1900	Horse Creek	Lead Ditch	IRR	OS	ADJ	9.50	CFS
2678 Enl.	04-Sep-1912	Horse Creek	Enl. Snider Ditch	IRR	OS	ADJ	4.50	CFS

Zoom In

Wyoming State Water Plan

Internet 100%

Online Maps of Public Water Systems

Public Water System Survey Responses for Cheyenne

Question	Response
Date of Response	8/28/2007
Name of Entity/Municipality	Cheyenne
County	Laramie
Public Water System ID #	5600011C
Entity Census Population (2000)	53,011
Population Served by Water System	65,000
Surface Water Source Name	Crow Creek, Douglas Creek, Little Snake
Type of Diversion for Surface Water Source(s)	Surface Direct, Alluvial Wells, Dam
Number of Wells	39
Minimum Depth of Wells	200
Maximum Depth of Wells	500
Name of Other Water Source(s)	N/A
Distance to Distribution System (ft)	26,400
Is there a wellhead or source water protection plan	Yes
Total maximum capacity of all water sources (gpm)	22,000
Treatment methods used regularly	DC, F, TP
Maximum Raw Water Storage Capacity (gal)	2,117,900,000
Maximum Treated Water storage capacity (gal)	35,000,000
Names of other entities served	South Cheyenne District, Warren AFB
Sell water wholesale to other entities?	No
If yes, to whom?	
Quantity Sold on an Average Day (gal)	
Quantity Sold on a Peak Day (gal)	
Quantity Sold Annually (gal)	
Sold by what unit	
Cost per unit (\$)	
How many service connections (taps) are inside entity boundaries	51,850
How many service connections (taps) are outside entity boundaries	150
Acres Irrigated with Untreated Water	105
Acres Irrigated with Treated Water	810
Estimate Gallons used Per Capita Per Day (Avg Day)	202
Estimate Gallons used Per Capita Per Day (Peak Day)	566
Total gallons used by system (Avg Day)	131,000,000
Total gallons used by system (Peak Day)	36,800,000

Water

LAYERS

- All Layers
- Roads
- Highways
- Counties
- Cities/Towns
- Irrigated Lands
- Irrigation Districts
- Bedrock Geology
- Land Ownership
- Wells
- Surface Water
- Climate Stations
- Hydrography
- Twn-Rng and Sections
- Precipitation Averages
- County Aerial (2002 CIR)
- County Aerial (1994 B&W)
- County DRGs (Topo Maps)

Refresh Map

Auto Refresh

Key:

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Click on the City dots (●) to retrieve Survey Responses

View Responses to Public Water System Surveys

Wyoming State Water Plan

Online Maps Linked to Online Publications

The screenshot displays two web browser windows. The left window shows a map of Wyoming with county boundaries. The right window shows a list of publications for Sweetwater County.

Water Resources Data System Library - Wyoming Water Development Commission Projects and Studies

In June 2008, WRDS began a major review of all electronic documents in its WWDC "Project Report and Studies" collection. Each electronic document will be checked for completeness, and optimized to ensure compatibility with all commonly used versions of the Adobe Acrobat reader. Until this project is completed, some electronic documents dating to 2004 or earlier will not be available online. However, the majority of these files may still be obtained by contacting the WRDS Librarian at library@wrds.uwyo.edu or 307-766-6661.

Sweetwater County

Bairoil

- Hydro-Search, Inc., [Bairoil, Wyoming Groundwater Development Feasibility Exploration Program](#), Nov, 1983 (70,753 kb)
- Lidstone and Associates, Inc., [Executive Summary of Final Report, Bairoil Water Supply Project Level II](#), May, 2000 (643 kb)
- Lidstone and Associates, Inc., [Bairoil Water Supply Project Level II, Final Report](#), May, 2000 (14,615 kb)
- Lidstone and Associates, Inc., [Bairoil Water Supply Project Level II, Phase IV, Final Report](#), Oct, 2001 (12,638 kb)
- Lidstone and Associates, Inc., [Executive Summary of Final Report, Bairoil Water Supply Project Level II, Phase V](#), May, 2003 (1,022 kb)
- Lidstone and Associates, Inc., [Town of Bairoil Water Supply Project Level II, Phase V Report](#), May, 2003 (21,241 kb)

Bitter Creek

- Johnson-Fermelia Company, Inc., [Rock Springs, Wyoming Flood Control Project, Bitter Creek Tributaries Level II Feasibility Study, Phase 1A Report](#), Feb, 1989 (19,039 kb)
- Johnson-Fermelia Company, Inc., [Bitter Creek Channel Improvement Study, Executive Summary](#), Sep, 1991 (307 kb)
- Johnson-Fermelia Company, Inc., [Bitter Creek Channel Improvement Study, Level II for the City of Rock Springs](#), Sep, 1991 (9,547 kb)
- Johnson-Fermelia Company, Inc., [Bitter Creek Tributary Flood Study, Rock Springs, Wyoming Level II Feasibility Study, Phase II Report](#), Nov, 1991 (6,694 kb)
- Johnson-Fermelia Company, Inc., [Bitter Creek Tributary Flood Study, Rock Springs, Wyoming Level II Feasibility Study, Phase II Report Executive Summary](#), Nov, 1991 (279 kb)

Click in any County to view a list of Publications pertaining to that County

View Publications for a County

Wyoming State Water Plan

The Water Library

River Basin Plans

Wyoming State Water Plan - Wind

http://waterplan.state.wy.us/plan/bear/execsumm.pdf - Windows Internet Explorer

http://waterplan.state.wy.us/plan/bear/execsumm.pdf

supreme court justices

File Edit View Favorites Tools Help

File Edit Go To Favorites Help

Wyoming State Water Plan

http://waterplan.state.wy.us/plan/bear/execsumm.pdf

1 / 14 68.6%

Sign Find

Click to show one page at a time

Bear River Basin Water Plan

Executive Summary

September, 2001

Prepared for the
**Wyoming Water
Development Commission**

FORSGREN
ASSOCIATES, INC.

ANDERSON CONSULTING ENGINEERS, Inc.
Civil • Water Resources • Environmental

Leonard Rice Engineers, Inc.

BBC
RESEARCH & CONSULTING

Done

Unknown Zone

Citizen Government Bus

News and Information

- ◆ Newsletter
- ◆ Water Planning Process History
- ◆ Historical Planning Documents
- ◆ Wyoming Water Facts

River Basin Plans

- ◆ Statewide Framework Plan
- ◆ Bear River Basin
- ◆ Green River Basin
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- ◆ Platte River Basin
- ◆ Powder/Tongue River Basin
- ◆ Snake/Salt River Basin
- ◆ Wind/Bighorn River Basin

Basin Advisory Group

- ◆ Mission and Purpose
- ◆ Calendar
- ◆ Agendas
- ◆ Meeting Records
- ◆ Reference Material

Planning Products

- ◆ GIS Web Mapping
- ◆ Framework Water Plan
- ◆ Platte Water Atlas
- ◆ Water Search Engine
- ◆ Send Us Your Comments

Partners

- ◆ State Engineer's Office
- ◆ Water Resources Data System

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Water Plan Home Page

Water Development Office Publications Available Online

Water Resources Data System Library

Bridger Valley

- Forsgren Associates, [Bridger Valley Reservoir Project, Level II Study](#)
- Forsgren Associates, [Bridger Valley Reservoir Project, Level II Study](#)
- Forsgren Associates, [Bridger Valley Reservoir Project, Level II Study](#) (12,140 kb)
- Forsgren Associates, [Bridger Valley Reservoir Project, Level II Study](#)
- Forsgren Associates, [Bridger Valley Reservoir Project, Level II Study](#)
- ECI, [Bridger Valley Reservoir Project, Level II Study](#)
- ECI, [Bridger Valley Reservoir Project, Level II Study](#)
- Gannett Fleming, [Bridger Valley Reservoir Project, Level II Study](#)
- Gannett Fleming, [Bridger Valley Reservoir Project, Level II Study](#)
- Short Elliott Hendrickson Inc., [Bridger Valley Reservoir Project, Level II Study](#)
- Short Elliott Hendrickson Inc., [Bridger Valley Reservoir Project, Level II Study](#)

Buffalo Valley

- Jorgensen Engineering and Land Use Consultants, [Executive Summary](#), Nov, 1996
- Jorgensen Engineering and Land Use Consultants, [Report](#), Nov, 1996 (8,577 kb)
- Hinckley Consulting, [Buffalo Valley Reservoir Project, Level II Study](#)
- Hinckley Consulting, [Buffalo Valley Reservoir Project, Level II Study](#) (kb)

Buffalo

- Plains Engineering, [Buffalo Hydrology Study](#)
- Western Water Consultants, [Mud Lake Reservoir Project, Level II Study](#) 1982 (12,556 kb)
- Tipton and Kalmbach, Inc., [Level II Study, Part I Report](#), Nov, 1996
- Tipton and Kalmbach, Inc., [Level II Study, Appendices](#), Nov, 1996
- Tipton and Kalmbach, Inc., [Level II Study, Summary Report](#), Nov, 1996

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Final Report for


Bridger Valley Reservoir Project, Level II Study

Wyoming Water Development Commission
Bridger Valley Joint Powers Board

Mountain View, Wyoming

SEH No. WWDC0703.00

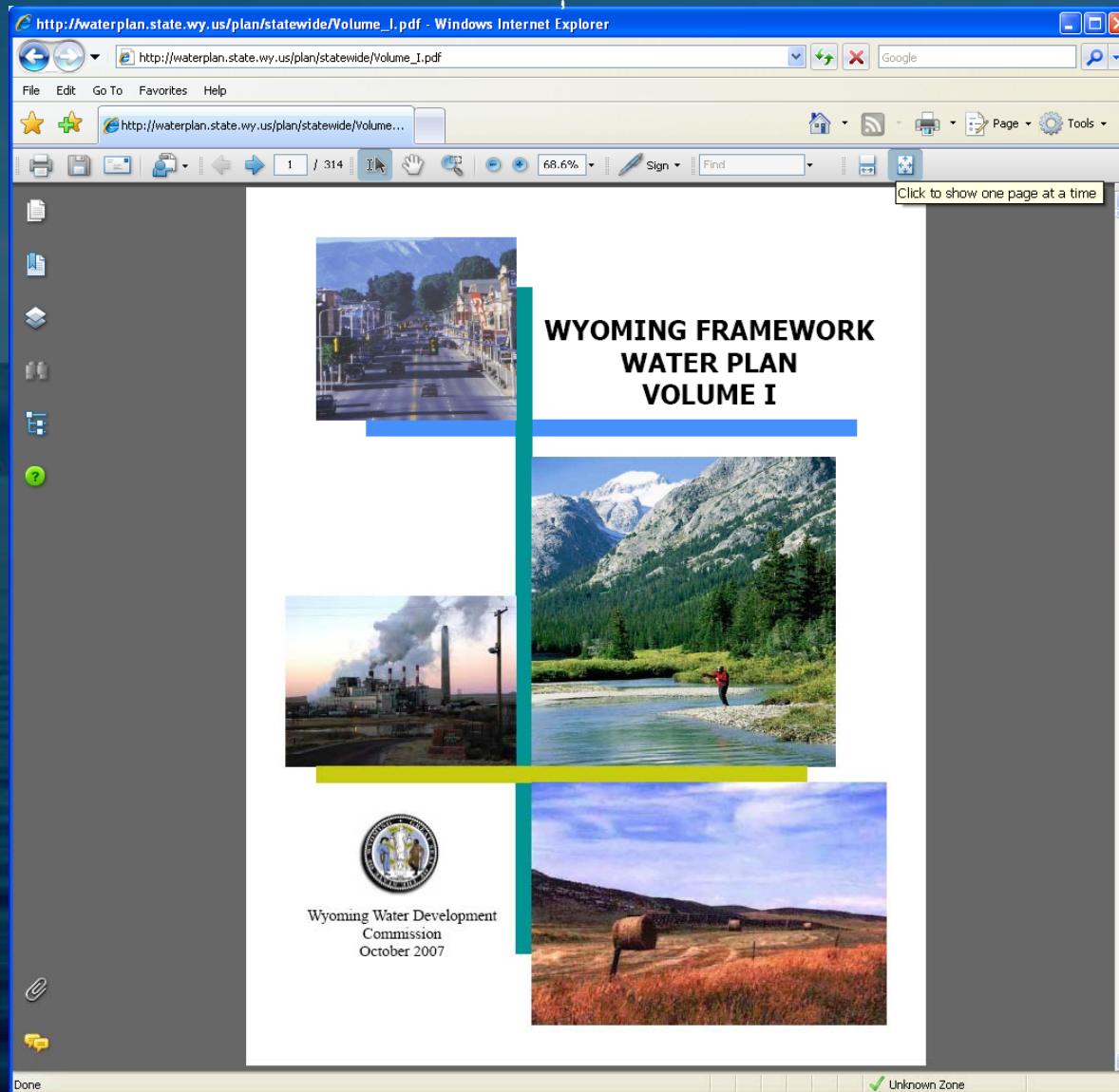
September 19, 2008



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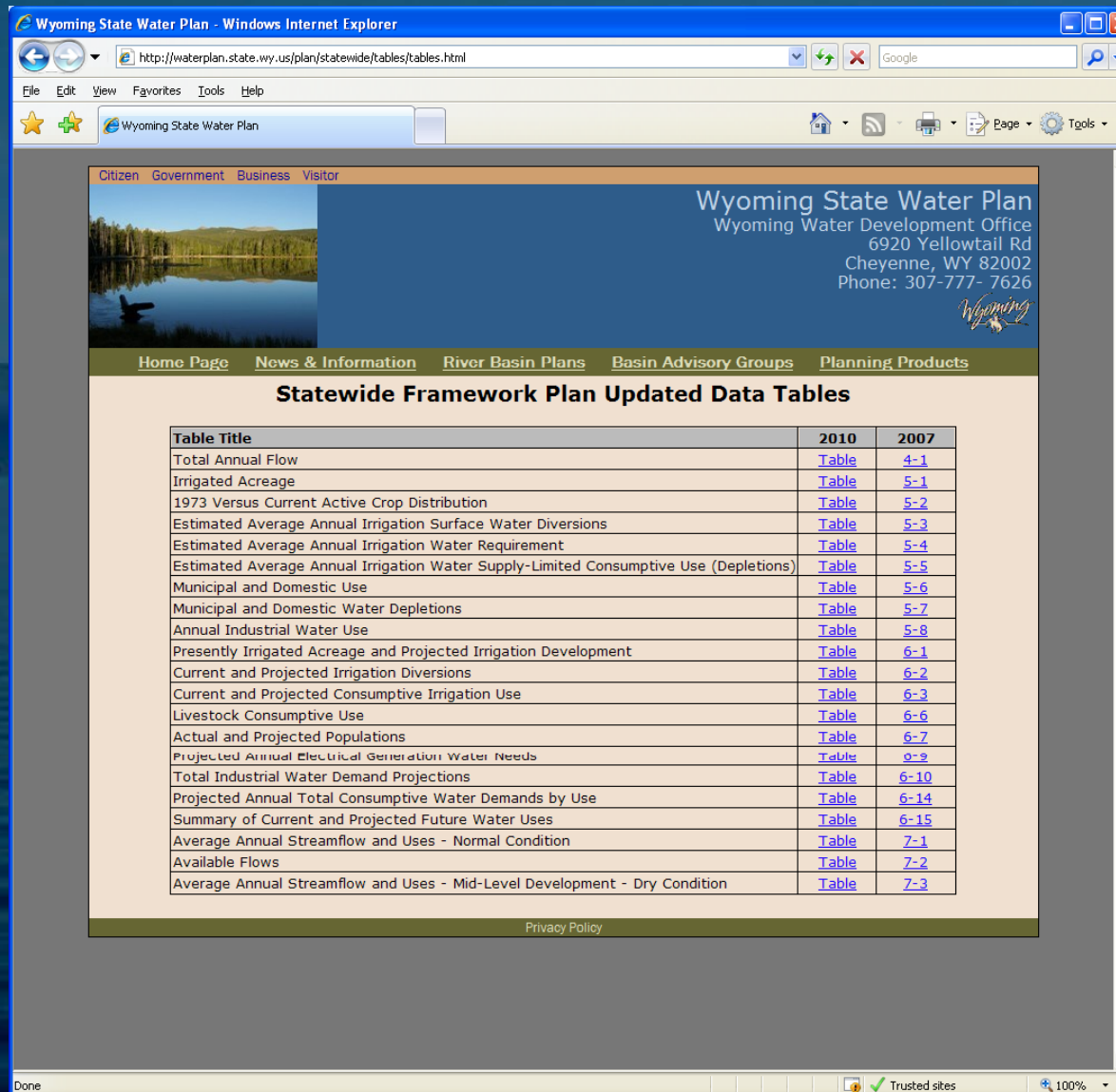
Statewide Framework Water Plan

Available as a printable PDF



Statewide Framework Water Plan

As basins are updated, so are the data



The screenshot shows a web browser window displaying the Wyoming State Water Plan website. The browser's address bar shows the URL <http://waterplan.state.wy.us/plan/statewide/tables/tables.html>. The website header includes navigation links for Citizen, Government, Business, and Visitor. A navigation menu below the header lists Home Page, News & Information, River Basin Plans, Basin Advisory Groups, and Planning Products. The main content area is titled "Statewide Framework Plan Updated Data Tables" and contains a table with two columns: "Table Title" and two columns for the years "2010" and "2007". Each row in the table lists a specific data table and provides links to the corresponding 2010 and 2007 data.

Table Title	2010	2007
Total Annual Flow	Table	4-1
Irrigated Acreage	Table	5-1
1973 Versus Current Active Crop Distribution	Table	5-2
Estimated Average Annual Irrigation Surface Water Diversions	Table	5-3
Estimated Average Annual Irrigation Water Requirement	Table	5-4
Estimated Average Annual Irrigation Water Supply-Limited Consumptive Use (Depletions)	Table	5-5
Municipal and Domestic Use	Table	5-6
Municipal and Domestic Water Depletions	Table	5-7
Annual Industrial Water Use	Table	5-8
Presently Irrigated Acreage and Projected Irrigation Development	Table	6-1
Current and Projected Irrigation Diversions	Table	6-2
Current and Projected Consumptive Irrigation Use	Table	6-3
Livestock Consumptive Use	Table	6-6
Actual and Projected Populations	Table	6-7
Projected Annual Electrical Generation Water Needs	Table	9-9
Total Industrial Water Demand Projections	Table	6-10
Projected Annual Total Consumptive Water Demands by Use	Table	6-14
Summary of Current and Projected Future Water Uses	Table	6-15
Average Annual Streamflow and Uses - Normal Condition	Table	7-1
Available Flows	Table	7-2
Average Annual Streamflow and Uses - Mid-Level Development - Dry Condition	Table	7-3

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Statewide Framework Water Plan

As basins are updated, so are the data
Green River Basin Irrigated Acreage

Wyoming State Water Plan - Windows Internet Explorer

http://waterplan.state.wy.us/plan/statewide/tables/5-1.html

Wyoming State Water Plan

Citizen Government Business Visitor

Wyoming State Water Plan
Wyoming Water Development Office
6920 Yellowtail Rd
Cheyenne, WY 82002
Phone: 307-777- 7626

Home Page News & Information River Basin Plans Basin Advisory Groups Planning Products

[Statewide Framework Plan Updated Data Tables](#)

Table 5-1 Irrigated Acreage

River Basin	Irrigated Lands ² (acres)			
	1973 Total	Total	Surface Water	Ground Water
Bear	59,000	64,000		
Green ³	332,000	331,100	330,980	120
Northeast Wyoming ³	161,000	77,600	59,600	18,000
Platte	553,000	613,000		220
Powder/Tongue ^{1,3}		161,400	161,180	220
Snake/Salt	94,000	99,000		
Wind/Bighorn ⁴	539,000	601,000		
Total	1,738,000	1,947,100		

¹ In the 1973 Framework Plan, Powder/Tongue Basin is included in Northeast Wyoming Basin. Also, the 1973 Wind/Bighorn Basin included the Little Bighorn subbasin, but the Little Bighorn is in the 2002 Powder/Tongue Basin.

² Current irrigated acreage listed for primary source of supply. Idle lands identified in the Northeast Wyoming and Powder/Tongue basins are not included.

³ Only Green, Northeast, and Powder/Tongue River Basin Plans distinguished between surface water and groundwater irrigated acreage.

⁴ Current Wind/Bighorn figure is modeled irrigated acreage for full-supply scenario and does not include Popo Agie Basin or Tribal Futures Projects.

[2010 Irrigated Acreage](#)

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Statewide Framework Water Plan

As basins are updated, so are the data
Green River Basin Irrigated Acreage

Wyoming State Water Plan - Windows Internet Explorer

http://waterplan.state.wy.us/plan/statewide/tables/irr_acres.html

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River Basin	Irrigated Lands ² (acres)			
	1973 Total	Total	Surface Water	Ground Water
Bear	59,000	64,000		
Green ³	332,000	342,300	334,500	7,800
Northeast Wyoming ³	161,000	77,600	59,600	18,000
Platte	553,000	613,000		220
Powder/Tongue ^{1,3}		161,400	161,180	220
Snake/Salt	94,000	99,000		
Wind/Bighorn ⁴	539,000	601,000		
Total	1,738,000	1,947,100		

Values in RED indicate basins updated since previous statewide plan.

- 1 In the 1973 Framework Plan, Powder/Tongue Basin is included in Northeast Wyoming Basin. Also, the 1973 Wind/Bighorn Basin included the Little Bighorn subbasin, but the Little Bighorn is in the 2002 Powder/Tongue Basin.
- 2 Current irrigated acreage listed for primary source of supply. Idle lands identified in the Northeast Wyoming and Powder/Tongue basins are not included.
- 3 Only Green, Northeast, and Powder/Tongue River Basin Plans distinguished between surface water and groundwater irrigated acreage.
- 4 Current Wind/Bighorn figure is modeled irrigated acreage for full-supply scenario and does not include Popo Agie Basin or Tribal Futures Projects.

[Irrigated Acreage Table from Previous Statewide Plan](#)

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Need Information or Documents? WRDS' Wyoming Water Library



The screenshot shows a web browser window titled "Water Resources Data System Library - Windows Internet Explorer". The address bar displays "http://library.wrds.uwyo.edu/". The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar with navigation and utility icons. The website content is displayed on a light green background with a dark blue sidebar on the left.

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The bottom of the page features two side-by-side photographs of the library's interior. The left photo shows a long row of white bookshelves filled with books, with a small table and chairs in the foreground. The right photo shows a similar view of the library, highlighting the organized shelving and the reading area.

We have on display available documents, State Climate Atlases, brochures, and rain gages.

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