

Name: _____

Date: _____

S-491 Pre-course Work
Data Sources
12 Possible Points

Objective: Identify multiple data sources for obtaining historic and current weather and fire data.

I. Wildland Fire Management Information (WFMI) System - Fire Reporting Module

All S-491 students must obtain access to Department of Interior (DOI) fires database.

The Department of Interior fire records are maintained in the BLM's WFMI web site. This site contains historical fire data for the **BLM/NPS/BIA only** (as of spring 2010). The data is limited by account role to Agency/Unit and requires a user ID and password. Based on the permissions set up with your account, you may be very limited to the fire records you can access. You will be accessing the WFMI data during the S491 course.

Students needing WFMI access for long term purposes related to their job should request access using the form from <https://www.nifc.blm.gov/>

Students who need WFMI access for THIS COURSE ONLY can obtain a WFMI training profile ID by going to http://www.nationalfiretraining.net/userfiles/GreatBasin/Brian/wfmiaccessform_s491.pdf

The WFMI training login will be used only in the pre-course and course work to access the Fire Reporting module.

Students need to fill out section I (User Information) with the sunset date the last day of the S491 course, check the box in section III next to "This individual needs to view and/or export the fire reports on WFMI (for the BIA, BLM, BOR, and/or NPS)", and sign section II after reading the General Rules and Guidelines Governing the Use of BLM Computer Systems at <https://www.nifc.blm.gov/BlmComputerRules.pdf>

After completing the form, fax it to **Roshelle Pederson at 208-387-5179**.

When you have received your WFMI login and temporary password, go to www.nifc.blm.gov. Login and change your password. Once you have successfully entered the site, there should be a web page that looks like this:

WFMI Home - Successful Logon

Username:	SBEAR	Organization:	USFS
Name:	Smokey Bear	Email address:	sbear@smokey.net
Title:		Phone number:	(123)456-7890
Time Zone:	UTC	Password expires:	in 24 days (09/13/2010)

You currently have access to the following modules;
Lightning, Fire Reporting

The page will show you information about you, how many days until your password will expire, the time zone you wish to use to see data, and the modules you have access to. **Print this page** and turn it in with your pre-course work.

II. FAMWEB Fire and Weather Data Website

Fire & Aviation Management Homepage - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://fam.nwccg.gov/fam-web/
Fire & Aviation Manage...

NATIONAL FIRE AND AVIATION MANAGEMENT WEB APPLICATIONS

FAMWEB Home Contact Us FAQ Help Disclaimer Monday, December 14, 2009

Welcome to FAMWEB

The Fire and Aviation Management Web Applications (FAMWEB) web site brings together a variety of applications, tools, and services related to interagency fire and aviation management managed by the **National Wildfire Coordinating Group (NWCG)** and participating agencies. The website provides detailed information, data access, and application entry points for system users, interagency partners, providers, and the public.

FAMWEB DATA WAREHOUSE

Check it out - The FAMWEB data warehouse is now on the **FAMTEST** web site. Use this **KCFAST-Data Warehouse** document for information on pulling KCFAST Queries thru the Data Warehouse. Here is the latest tech note for the Data Warehouse - [warehouse tn](#)

KEY DECISION LOG:

The Key Decision Log application is now available for use. To obtain access, create an account on **FAMTEST** (different than FAMWEB) and contact your local KDL Manager. For step-by-step instructions select the menu option "New User Instructions" on the FAMTEST page. NOTE: You will not see the menu option for Key Decision Log until you are logged into FAMTEST.

LATEST WIMS TECHNOTE - [wims tn2009_04.rtf](#)

Navigation Menu:
▶ FAMWEB
▶ Administration
AMIS
ARS
AWSR
FIRESTAT
▶ SIT Report
▶ 209
KCFAST
▶ WIMS
▶ Electronic Forms
Change Request Form
Add Program Request
FEPMIS
Data Request Form
CMMS
FEPP Web Pages
Fire and Weather Data
FTP2 Site
GACC Web Pages
PocketCards

Both fire and weather files are on the static FAMWEB Fire and Weather Data website. In the past, these files were published on a CD-ROM known as the "weatherfirecd." It is now maintained as part of the FAMWEB services. No password is required to access the data.

Data can be downloaded directly onto your computer, one file at a time.

The data on the web page is updated after January of each year. The data contains the period of record through the prior year. Data varies widely, but may go back as far as 1954. Corrections or additions made in WIMS are not immediately available in this data set; they are posted the following year.

To access the site, go to <http://fam.nwcg.gov/fam-web/> and select **Fire and Weather Data**.

Naming conventions:

When you view the file name and extension, it is in the following format.

The NNNNNN shown below is the WIMS ID

- Station Catalog Files - by 6 Digit WIMS ID.
WLSTINV!NNNNNN.txt
- Weather Data Files
WXNNNNNN.fw9
- USFS Fire Occurrence data are by Region/Forest (RR and FF).
FLNFMAS2!RRFF!START!STOP.raw
- DOI Fire Occurrence data are by NWCG Unit ID (2-digit State ID + UnitID). Start and stop refer to beginning and ending years of data contained in the file.
AGY-UNITID-START-STOP-PCHAFFP.txt

FIRE & WEATHER DATA: ALABAMA

[HOME](#)
[ALABAMA](#)
[ARIZONA](#)
[ARKANSAS](#)
[CALIFORNIA](#)
[COLORADO](#)
[CONNECTICUT](#)
[DELAWARE](#)
[DISTRICT OF COLUMBIA](#)
[FLORIDA](#)
[GEORGIA](#)
[HAWAII](#)
[IDAHO](#)
[ILLINOIS](#)
[INDIANA](#)
[IOWA](#)
[KANSAS](#)
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[LOUISIANA](#)
[MAINE](#)
[MARYLAND](#)
[MASSACHUSETTS](#)
[MICHIGAN](#)
[MINNESOTA](#)
[MISSISSIPPI](#)
[MISSOURI](#)

**Station Number,
Name and Type**

↓ ↓ ↓

**Station Catalog
Files**

↓

**Station Data
Files**

↓

**Period of
Record**

↓

STATION NUMBER	NAME	STATION TYPE	CATALOG	WEATHER	YEARS OF DATA
010401		7	WLSTINV1!010401.TXT	WX010401.FW9	1966-1970
010701		7	WLSTINV1!010701.TXT	WX010701.FW9	1965-1970,1973-1986
010702	BANKHEAD NF	4	WLSTINV1!010702.TXT	WX010702.FW9	2006-2009
010990	LIRI	4	WLSTINV1!010990.TXT	WX010990.FW9	1999-2009

Detailed information pertaining to file formats is available from the FAMWEB Fire and Weather Data website at <http://fam.nwcg.gov/fam-web/weatherfirecd/formats.htm>

Page layout

- This example web page shows the weather files for stations in Alabama. The Stations are sorted by Station Number. Notice the catalog and weather naming conventions.
- If you scroll to the bottom of the page, you will see that the Fire Occurrence files for all agencies (DOI and FS) are at the bottom of the page. These files also follow the naming conventions as described above.

File retrieval - all files

- You can save any data file from the FAMWEB Fire and Weather Data website.
- Right Click on the desired file name.
- Select Save Target (or Link) As.
- Navigate to the desired folder; keep the default file name and click Save.

Select your state from the left hand column. **Find a weather station on your home unit** or in your area and **write down the station number**. You will use this number in step III. **Scroll down** to the bottom of the page and find the **Fire Occurrence** files. During class you will need to identify both Forest Service (FS) and Department of Interior (BIA, BLM, FWS, or NPS) locations at or near your home unit. Take a minute to review the list and see which agencies are near your home unit.

III. FAMWEB Data Warehouse

The data warehouse contains weather data and station catalogs. It also houses Forest Service fire data. You will learn more about data retrieval for these files in the S491 class. The data extract reports are available to public users and do not require a FAMWEB Data Warehouse user ID or password. The site is currently located on the FAMWEB test site (as of summer of 2010). This site can be accessed by going to the main FAMWEB page <http://fam.nwcg.gov/fam-web/> and clicking on the FAMTEST link on the left side of the page. For the pre-course work you will look at two reports available from the data warehouse regarding your weather station.

NATIONAL FIRE AND AVIATION MANAGEMENT WEB APPLICATIONS

FAMWEB Home Contact Us FAQ Help Disclaimer

- ▶ FAMWEB Administration
- AMIS
- ARS
- AWSR
- FIRESTAT
- ▶ SIT Report
- ▶ 209
- KCFAST
- ▶ WIMS
- ▶ Electronic Forms
- Change Request Form
- Add Program Request
- ▶ **FAMTEST**
- FEPMIS Data Request Form

DATE	UPDATE
Aug 5, 2010	ATTENTION: FIRESTAT has been updated. The issues that have surfaced are related to the Formatta Form and are being worked on.

The Fire and Aviation Management Web Applications web site brings together a variety of applications, tools, and services related to interagency fire and aviation management managed by the **National Wildfire Coordinating Group** (NWCG) and participating agencies. The website provides detailed information, data access, and application entry points for system users, interagency partners, providers, and the public.

FAMWEB DATA WAREHOUSE

Check it out - The FAMWEB data warehouse is now on the **FAMTEST** web site. Use this **KCFAST-Data Warehouse** document for information on pulling KCFAST Queries thru the Data Warehouse. Here is the latest tech note for the Data Warehouse - **warehouse tn**

The test page will look similar to the production FAMWEB page. The data is pulled from the production site, so it is current data. Click on **FAMWEB Data Warehouse** link.

WEB APPLICATIONS

FAMWEB Home Contact Us FAQ Help Disclaimer

▶ FAMWEB
 Administration
 FIRESTAT
 AWSR
 ARS
 ▶ WIMS-TEST
 ▶ Electronic Forms
 KCFAST
 Legacy FEPMIS
 PocketCards
 Fire and Weather Data
 New User Instructions
 ▶ **FAMWEB Data Warehouse**
 To access SIT/209 or KDL use the "Log On" link below
 ▶ SIT Report
 ▶ 209

Welcome to FAMWEB

****THIS IS THE FAMTEST SITE****

The Fire and Aviation Management Web Applications (FAMWEB - TEST SITE) web site brings together a variety of applications, tools, and services related to interagency fire and aviation management managed by the **National Wildfire Coordinating Group (NWCG)** and participating agencies. The website provides detailed information, access, and application entry points for system users, interagency partners, providers, and the public.

The **New User Accounts** and **Disclaimer** pages have been broadened to cover the variety of application technologies and diverse user groups.

KDL Update - There is a new editable INCIDENT report format, see NEW Incident under Reports

There are two options under the Data Warehouse link that appear.

FAMWEB Data Warehouse
 ▶ **Queries and Reports**
 GIS Tool

Select **Queries and Reports** and then select **Fire and Weather Extracts**.

FAMWEB Home Contact Us FAQ Help Disclaimer

FAMWEB Data Warehouse: Queries and Reports

FAMWEB Data Warehouse

▶ **Fire and Weather Extracts**
 This folder allows you to extract weather and fire occurrence data; perform queries on a variety of weather station, fire occurrence, and other weather data; and extract fire planning reports.

▶ **FIRESTAT**
 FIRESTAT allows you to extract fire occurrence data from the Fire Statistics System based on the Individual Fire Report (form FS-5100-29).


▶ **Helpdesk Queries**

▶ **Shared Outputs**
 This folder is intended to hold report outputs for sharing with other users.

▶ **SIT/209**
 Allows you to extract Situation Report (SIT) and Incident Status Summary (ICS-209) data.

▶ **State Fire Occurrences**
 State Fire Occurrences allows you to extract fire occurrence summary data from

Choose **Weather** at the next screen.



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FAMWEB Data Warehouse: Queries and Reports

FAMWEB Data Warehouse -> Fire and Weather Extracts

- Fire**
The fire occurrence menu provides options to define data extraction and report inventory criteria from the FAMWEB Data Warehouse (FDW), combining 5100-29. Information format specifications for PCHA, NFMAS are provided. Data filters of year range, and geographic area or administrative unit designation assist with the retrieval scope.
- Weather**
The weather information menu provides options to define data extraction criteria, National Weather Service narrative forecast retrievals and selection of fire weather station catalog information by state. Future additions to this menu are anticipated to accommodate the direct entry of fire weather observations on the local computer and submitted to WIMS without the need for interactive intervention.

Select **Data Extract**.



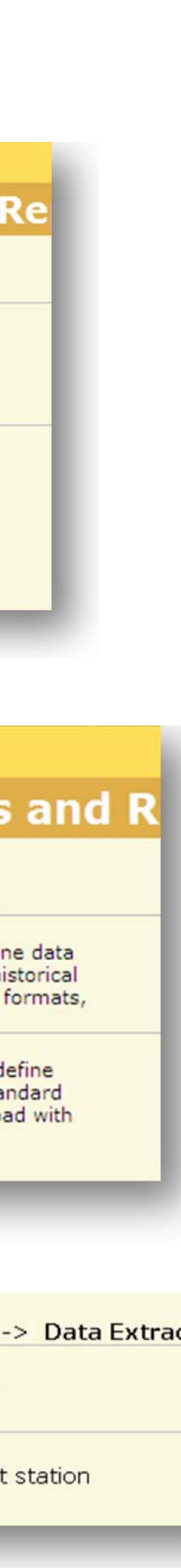
FAMWEB Home Contact Us FAQ Help Disclaimer

FAMWEB Data Warehouse: Queries and Reports

FAMWEB Data Warehouse -> Fire and Weather Extracts -> Weather

- Data Extract**
The weather information, 'Data Extract' submenu provides options to define data extraction criteria for retrieval of current, daily information from WIMS, historical fire weather information from the FAMWEB Data Warehouse in 'standard' formats, or define an ad-hoc data download.
- Station Catalog**
The weather information, 'Station Catalog' submenu provides options to define data extraction criteria for retrieval of current catalog information in a standard format and queried by state and county, or define an ad-hoc data download with more robust query options.

Select **Utilities** to view two reports about your weather station.



FAMWEB Data Warehouse -> Fire and Weather Extracts -> Weather -> Data Extract

- Historical**
The Weather/Data Extract, 'Historical' folder provides options to extract observation data in 1972 and 1998 data formats.
- Utilities**
The Weather/Data Extract, 'Utilities' folder provides options to to extract station and observation statistical reports.

FAMWEB Data Warehouse: Queries and Reports

FAMWEB Data Warehouse -> Fire and Weather Extracts -> Weather -> Data Extract -> Utilities



Fire Weather Utilities: Missing Data

This report has been developed in a printable format. To ensure the file is formatted correctly, run and save the report in the HTML or PDF formats.



Fire Weather Utilities: Station Year Count

This report has been developed in a printable format. To ensure the file is formatted correctly, run and save the report in the HTML or PDF formats.

Utility Reports

- **Missing Data** - A Missing Observation report will display the days that weather observations have not been recorded in predetermined years.
- **Station Year Count** - A Station Year Count will display how many years data has been collected for the station and how many observations exist for each year.

These reports are formatted in HTML or PDF and are not downloadable into any software applications. Selection of either report brings the Output Option dialog. HTML (opens directly in browser) or PDF (can be saved or opened directly).

Select **Missing Data** and select the **PDF** format (click on **Run**).

The screenshot shows the 'Output Options - Fire Weather Utilities: Missing Data' dialog box. At the top, there is a navigation bar with links: 'FAMWEB Home', 'Contact Us', 'FAQ', 'Help', and 'Disclaimer'. Below this is the main title 'FAMWEB Data Warehouse: Queries and Reports'. The dialog title is 'Output Options - Fire Weather Utilities: Missing Data'. Under the 'Options' section, there are three groups of settings: 'Formats' with checkboxes for 'HTML' (unchecked) and 'PDF' (checked); 'Orientation' with a dropdown menu set to 'Portrait'; and 'Paper Size' with a dropdown menu set to 'Default'. At the bottom of the dialog are two buttons: 'Run' and 'Cancel'.

Select **Active** for station type (click **Next**).

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FAMWEB Data Warehouse: Queries and Reports

Fire Weather Utilities: Missing Data

Station Type: Active

Please enter a station identifier or select one or more station identifiers from the list.

Once you have selected the Station Type, press the Next button to continue the selection criteria, or press the Cancel button to exit.

Note: Fields with a dashed line are required to run the report. There is no validation of the values entered, so if the values do not produce data, the report will be blank.

Cancel < Back Next >

Enter a **Station Identifier** directly in the top box or you can select one or more station from the pull-down list with standard Shift/Ctrl mouse clicks. **Select a weather station on your home unit** from step II above. **Select last calendar year** from Begin and End using drop lists. Click **Finish** at the bottom of the page to run the report.

FAMWEB Home Contact Us FAQ Help Disclaimer

FAMWEB Data Warehouse: Queries and Reports

Fire Weather Utilities: Missing Data

Station Identifier:

or

- None Selected
- 010702 - BANKHEAD NF (Sep 14, 2006 to Aug 05, 2010)
- 010990 - LIRI (Aug 07, 1999 to Sep 29, 2009)
- 012201 - MOUNTAIN LONGLEAF (Mar 01, 2007 to Apr 12, 2010)
- 012701 - TALLGA (Jan 01, 1965 to Aug 05, 2010)**
- 012902 - SHOAL CREEK (Apr 09, 2004 to Aug 05, 2010)
- 013201 - OAKMULGEE (Oct 01, 1973 to Aug 04, 2010)
- 014201 - TUSKEGEE (Apr 24, 1997 to Aug 04, 2010)
- 015902 - OPNPND (Jan 01, 1965 to Aug 03, 2010)
- 016703 - BON SECOUR (Sep 25, 2002 to Jul 14, 2010)
- 020104 - TRUMBULL (Jun 22, 1977 to Sep 12, 1991)

Select all Deselect all

Enter a station identifier or select one or more station identifiers from the list.

Begin: 2004 End: 2004

Select a beginning and ending year from the drop-down lists.

Once you have entered report criteria, press the Finish button to execute, or press the Cancel button to exit.

Note: Fields with a dashed line are required to run the report. There is no validation of the values entered, so if the values do not

Cancel < Back Finish

Select **Open** to view the report.

Fire Weather Utilities: Missing Data by Year NIFMID and WIMS tables

012701 - TALLGA																																		
# Obs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Summary		
2004											1	1	1	1											1	1	1	1	1	9				
																					1	1	1	1	1	1	1	1	1	1	1	10		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28		
											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30		
2004	8	8	8	9	9	8	9	8	8	9	9	10	9	9	8	8	8	7	9	9	10	10	11	10	10	11	10	10	10	9	5	276		
Summary	8	8	8	9	9	8	9	8	8	9	9	10	9	9	8	8	8	7	9	9	10	10	11	10	10	11	10	10	10	9	5	276		

The missing data report illustrates that all of January, most of February, and part of March were missing most of the observations in 2004

Print the missing data report for the last calendar year to turn in with your pre-course work.

Select the **Station Year Count** report. Follow the steps and select a **weather station from your home unit**. Select the **last ten years**.

Stn ID	Year	# Obs
012701 - TALLGA	2000	365
	2001	364
	2002	364
	2003	362
	2004	276
	2005	365
	2006	364
	2007	365
	2008	366
	2009	365
2010	14	
012701 - TALLGA		3,570
Summary		3,570

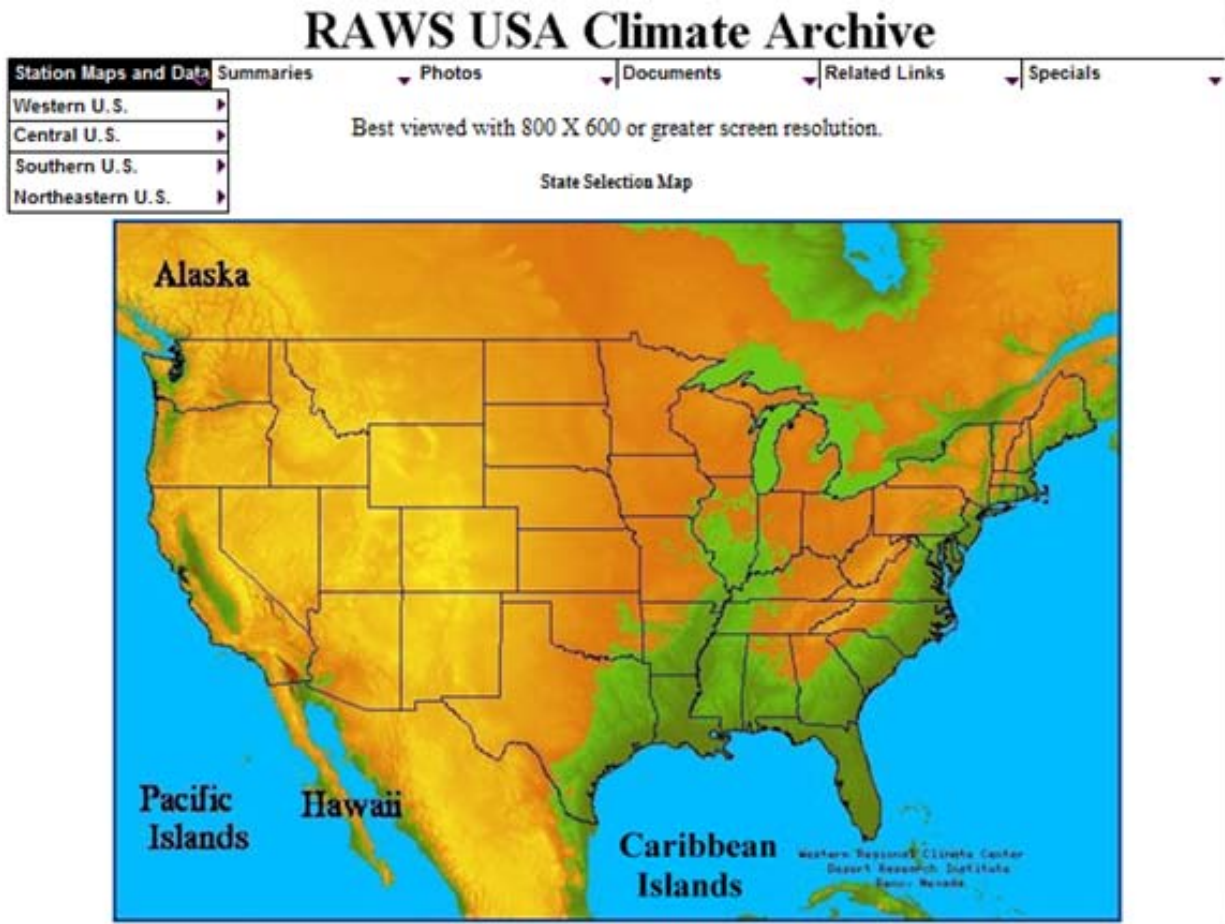
Example of a Station Year Count Report. In this example, 2004 has significant missing data (276 observations).

Print the station data count report for the last ten years to turn in with your pre-course work.

IV. FAMWEB WIMS

As part of the S491 pre-course work, you will complete a WIMS module. You will learn that WIMS has weather data only and a password is required to access the data. WIMS allows direct extraction of data.

V. Western Regional Climate Center (WRCC)



The Western Regional Climate Center RAWS USA climate archive contains weather data only. The data is current to the hour. It contains only RAWS observations transmitted via the GOES satellite to WFMI.

A password is required for data over 30 days old. You can download the data directly to your computer, one station at a time.

Data from this site, even though formatted as .FWX or .FW9 will have blanks for State of the Weather and Wet Flag (these values are from WIMS). The .FW9 may contain solar radiation if the sensor is present at the station. As of 2010, WRCC is the only reliable data retrieval source for hourly solar radiation data.

There is no interface to WIMS. Hourly WRCC data comes via WFMI, not WIMS. WRCC tracks stations by the NESS ID (the 8-character ID used for GOES satellite) and a WRCC centric Station ID. The WRCC station ID is different from WIMS station ID.

To **access the site**, type in the URL <http://www.raws.dri.edu/index.html>

You can select Regions and States from the menu bar across the top or click directly on a state in the map area. **Select your State** from the main page.

The screenshot shows the RAWS website interface. On the left is a vertical list of site names with blue underlines, including 'Otter Creek Utah', 'Red Dome - Rosette 22S', 'Rosebud Utah', 'Red Spur Utah', 'Class III 10-C Idaho', '3 Mile Idaho', 'Arco Idaho', 'Banner Summit Idaho', 'Bearskin Creek Idaho', 'Berger Butte Idaho', 'Bonanza Idaho', 'Brace Flat Idaho', 'Bull Spring Idaho', 'Canyon Creek Idaho', 'Craig Mountain (Portable) Idaho', 'Chausse Idaho', 'Challis Idaho', 'Copper Basin Idaho', 'Corral Creek Idaho', 'Cotton Idaho', 'Castlehead RX (NPS#2) Idaho', 'Crystal Idaho', 'Dead Indian Ridge Idaho', 'Bull Canyon Idaho', 'Deer Haven Idaho', 'Diamond Flat Idaho', and 'Drv Creek Idaho'. The central map shows a yellow-toned region with numerous small blue squares representing stations. One square is highlighted with a larger black box and labeled 'Ski Hill Idaho (RAWS)'. Below the map is a text box that reads 'Location: Ski Hill Idaho (RAWS)'. On the right side, there is instructional text: 'Select a site by placing mouse cursor over a site. Site name will appear in location box below the map if browser supports javascript1.1. Click site to go to graphing options. Large boxes indicate stations that had reported during the month when these maps were last generated. Small boxes indicate inactive or removed stations. Map last generated on 12/25/09. If a location has multiple stations or more than one platform in the near vicinity, overlapping boxes may create difficulty when selecting from the map. Select from the list to the left in such cases.'

When you hold the mouse pointer over a square representing a station on the map, the Station Name will be displayed. If you click on a Station Name in the left panel, the station is highlighted in the map area. **Select a weather station** on your home unit.

Once you have a station selected, the right frame displays an inventory of available data. If the month is shown in black print, there is no data available. If a month shows in red, it means that there is some data available for that month.

The left frame displays all the climate reports and graphs available.

Back to:

[Home Page](#)
[RAWS Page](#)

NOTE:
To print data frame (right side), click on right frame before printing.

- [Daily Summary](#)
- [Daily Summary \(with Wind Chill and Heat Index\)](#)
- [Daily Summary Time Series](#)
- [Monthly Summary](#)
- [Monthly Summary \(w/ Et data\)](#)
- [Monthly Summary Time Series](#)
- [Graph of last 7 days](#)
- [Time Series Graph](#)
- [Wind Rose Graph and Tables](#)
- [Wind Stability/Wind Rose Graph and Tables](#)
- [Hourly Frequency Distribution/Histogram](#)
- [Data Lister](#)
- [Data Inventory \(Monthly Graphic\)](#)
- [Station Metadata and Photos](#)
- [Current 7-day forecast \(NWS\) \(May not work correctly for some Central and Southern U.S. states.\)](#)

Climate Summary Info NEW

- [Wind Rose Climatology](#)

Western Regional Climate Center,
wrcc@ari.edu

Ski Hill Idaho

BOLD, Red indicates some data available for month and year.

2010	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2007	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2004	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2003	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2002	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2001	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2000	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1999	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1998	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1997	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1996	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1995	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1994	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1993	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1992	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Print the page with your weather station that shows how many years and months of data are available. **Turn in the page** with your pre-course work.

Data Lister allows you to view and download weather data to a local computer. The Data Lister requires a password for viewing data older than 30 days. You will download weather data at the S491 class.

All other reports and summaries may be viewed without a password.

The link to **Station Metadata and Photos** is valuable and has latitude, longitude, and the NWS/WIMS ID. It also may have photos of the station location. **Click on this link** and see if there are any photographs available for your weather station.

- Check list of items to be turned in with pre-course work:**
- WFMI logon page (3 pts)
 - Station year count report (3 pts)
 - Missing data report (3 pts)
 - WRCC years and months of data page (3 pts)