How to obtain temperature information from the NCDC Website
You will be gathering the MMNT (monthly minimum temperature). You will also need MMXT (monthly maximum temp), TPCP (precipitation) and TSNW (snow) precipitation data.

NCDC Website—www.ncdc.noaa.gov
The NCDC site is available for free only on a computer with an .edu domain. You can access the site from any computer, but if the computer doesn't have an .edu domain, you will be prompted for payment.
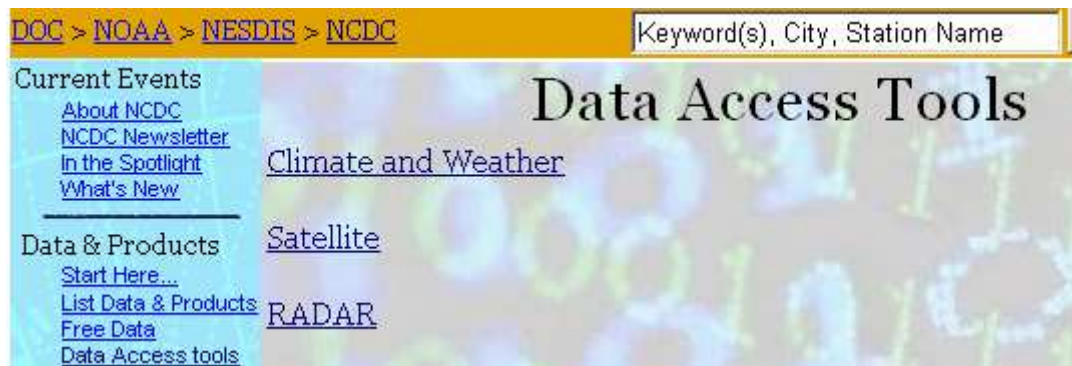
Instructions:

On the homepage www.ncdc.noaa.gov choose: Weather/Climate Events, Information…

On the Weather/ Climate Resources page, on the left bar select Data Access tools

At the Data Access Tools, select: climate and weather

From Climate and Weather page, select Global Surface Data

The Global Surface Data URL as of 2-06-2007 is:
http://hurricane.ncdc.noaa.gov/CDO/cdo

At the Global Surface Data page, if you select station name
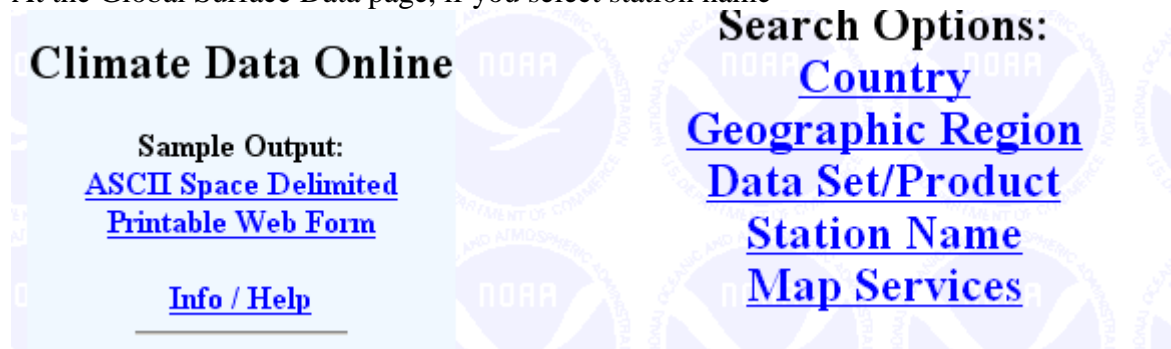
At station name search, type in the name of your town then click search for stations.

For this example, Fayetteville

FAYETTEVILLE/KELSO, TN UNITED STATES ISH ID: **72326399999**	DS3505 - Surface Data, Hourly Global - 12/1988 to 11/1989
FAYETTEVILLE/SPRING, AR UNITED STATES ISH ID: **72343699999**	DS3505 - Surface Data, Hourly Global - 02/2002 to 01/2006
FAYETTEVILLE , AR UNITED STATES COOP-WBAN ID: **032442-99999**	Surface Data, Daily - 01/1892 to 12/1960 TD3220 - Surface Data, Monthly - 1937 to 1960 Surface Data, Annual Summary
FAYETTEVILLE , TN UNITED STATES COOP-WBAN ID: **403069-99999**	Surface Data, Daily - 02/1952 to 03/1962 TD3220 - Surface Data, Monthly - 1952 to 1962 Surface Data, Annual Summary
FAYETTEVILLE 4 NE , OH UNITED STATES COOP-WBAN ID: **332727-99999**	Surface Data, Daily - 09/1976 to 11/1999 TD3220 - Surface Data, Monthly - 1976 to 1999 Surface Data, Annual Summary
FAYETTEVILLE DRAKE FIELD , AR UNITED STATES COOP-WBAN ID: **032443-93993**	Surface Data, Daily - 07/1949 to 01/1982 TD3220 - Surface Data, Monthly - 1949 to 1982 Surface Data, Annual Summary
FAYETTEVILLE EXP STN , AR UNITED STATES COOP-WBAN ID: **032444-99999**	Surface Data, Daily - 05/1890 to 08/2003 TD3220 - Surface Data, Monthly - 1891 to 2003 Surface Data, Annual Summary
FAYETTEVILLE POPE AFB , NC UNITED STATES COOP-WBAN ID: **316891-13714**	Surface Data, Daily - 09/1948 to 01/2003 TD3220 - Surface Data, Monthly - 1948 to 2003 Surface Data, Annual Summary
FAYETTEVILLE POPE AFB , NC UNITED STATES COOP-WBAN ID: **999999-13714**	Surface Data, Daily - 11/1968 to 11/1968
FAYETTEVILLE PWC , NC UNITED STATES COOP-WBAN ID: **313017-99999**	Surface Data, Daily - 11/1871 to 10/2005 TD3220 - Surface Data, Monthly - 1931 to 2005 Surface Data, Annual Summary
FAYETTEVILLE WATER PLANT , TN UNITED STATES COOP-WBAN ID: **403074-99999**	Surface Data, Daily - 01/1935 to 10/2005 TD3220 - Surface Data, Monthly - 1926 to 2005 Surface Data, Annual Summary

Usually you will have several lines to choose from.
YOU WANT SURFACE DATA MONTHLY, click on the blue line for surface data monthly for
the Fayetteville Exp Stn, AR.

Then instead of something useful, you SOMETIMES get this message. You don't get any help
on what kind of problem there is with your dataset.

NNDC CLIMATE DATA ONLINE

A problem was encountered.

You must specify a valid dataset!
Hit your BACK button to try again

It looks like SOME OF THE TIME the TD3220 surface data monthly data are causing problems. If this happens, instead of selecting station name, select country.

Select country
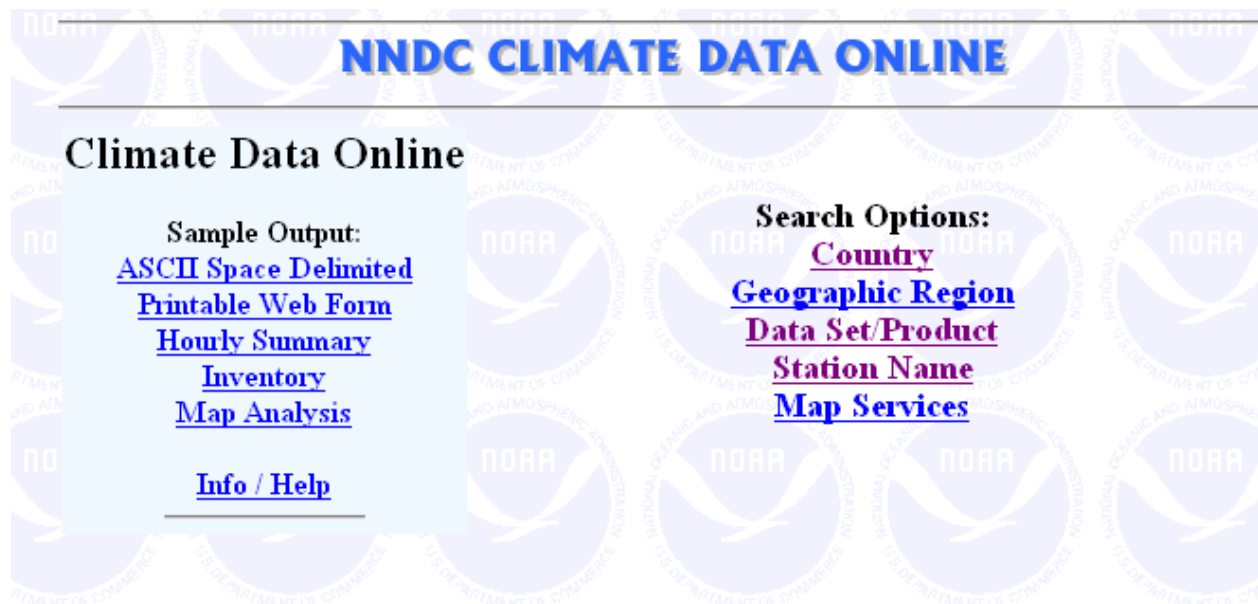
Select United States (or another country for your international city)
This example will follow a United States city example

When you select another country besides the United States, **look for datasets of DS3500 surface data monthly**. That dataset appears to be working as of January, 2007.

OK So back to getting the data from set TD3220 when it is working (which is most of the time)
This is the data set you get when you select STATION NAME
So I selected Fayetteville for station name, I want Fayetteville, AR (not NC…)

FAYETTEVILLE EXP STN , AR
UNITED STATES
COOP-WBAN ID: **032444-99999**

Surface Data, Daily - 05/1890 to 11/2006
DS3220 - Surface Data, Monthly - 1891 to 2006
Surface Data, Annual Summary

So next I will select one of my data elements (MMNT), year, delimited no station name, and output with comma

Monthly data for 1 stations *(List appears below)*

Select Meteorological Element(s): (SEE NOTES BELOW)

HTDD Monthly heating degree days - base 65 deg F.
HXyz Highest maximum soil temp for the month (deg F)
LNyz Lowest minimum soil temp for the month (deg F)
LOyz Lowest soil temp at observation time (deg F)
LXyz Lowest maximum soil temp for the month (deg F)
MMNP Monthly mean minimum temp of evap pan water (deg F
MMNT Monthly mean minimum temp (deg F)
MMXP Monthly mean maximum temp of evap pan water (deg F
MMXT Monthly mean maximum temp (deg F)
MNTM Monthly mean temp (deg F)

Date Range (Year):
From   1986
To   2006   Through 12/2006

Select Output Format:
Delimited - No Station Names
Delimited - Station Names

Select Output Format Delimiter:
(only if Delimited format selected above)
Comma
Space

The *ALL* option will select all available data elements.
Use the Shift or Control key with mouse click TO SELECT multiple elements.
More notes below

Output via FTP

[Continue] [Clear Selections] [Previous Page] [New Search]

Hit continue
You get the screen with a "check" of your data, then put a check mark in the box and put in your email address:

DS3220 - Surface Data, Monthly - US & some Non-US Cooperative, Request Summary

Selected Stations - includes 1 stations *(See selected stations below)*

Selected Meteorological Element(s): ' MMNT '	Date Range (Year): 1986 to 2006
	Selected Output Format: Comma Delimited, without station name
	Selected Output Media: FTP
	Total Data Rows Available: 18 - View Inventory
	Output File Size (bytes): 5080

☑ Inventory Review: I have reviewed the Inventory File to see if the elements/dates desired are included *before* ordering. Some time periods or elements may be missing.
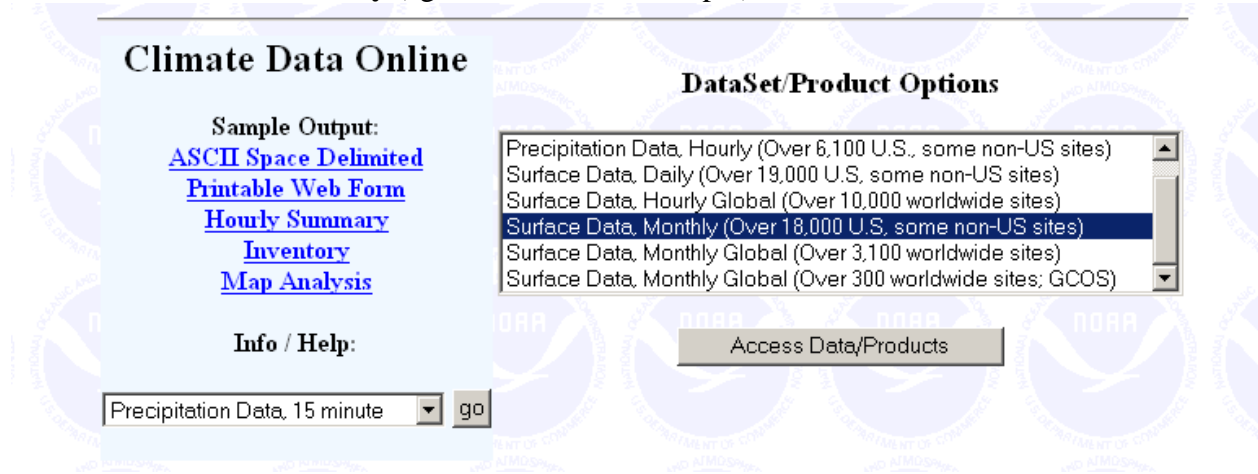
IMPORTANT! Please enter a valid email address below so we can notify you when your request has finished processing.

E-mail Address: alevel@

PAGES 4-5 show ONE way to get data, PAGES 6,7,8 show ANOTHER way. It is like saying 6 of one, a half-dozen of another….

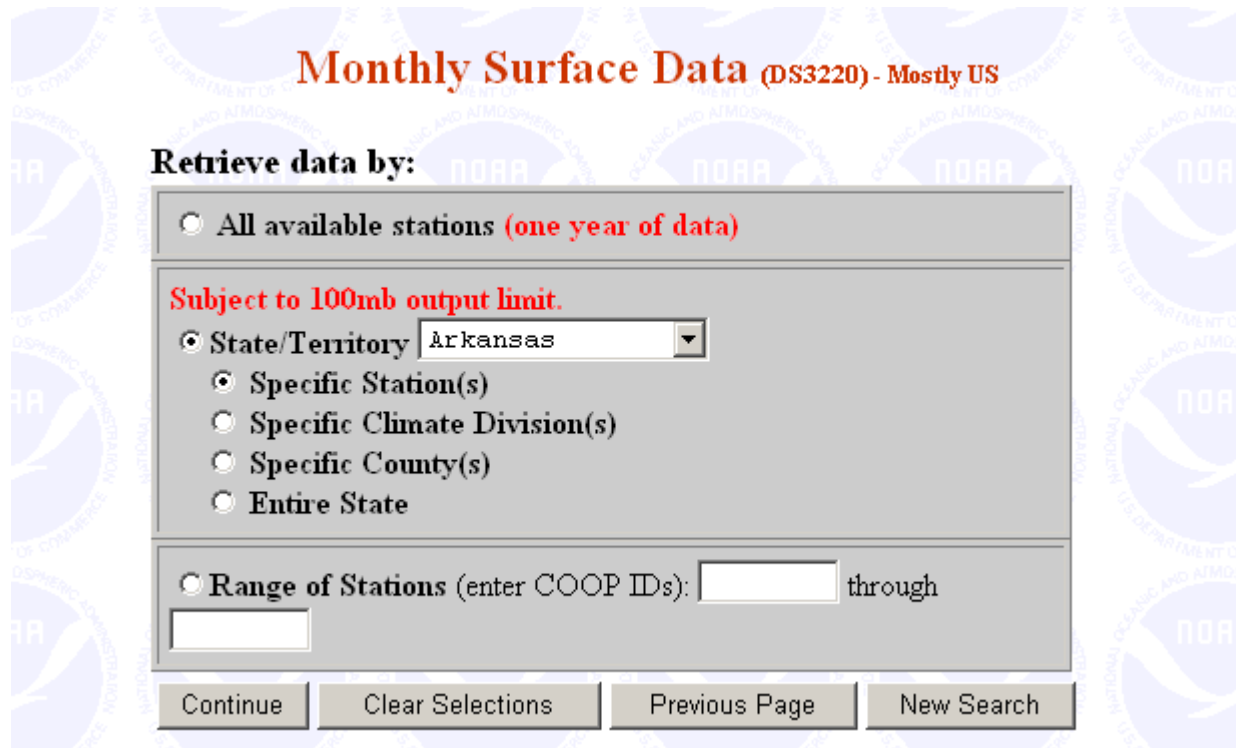If you selected COUNTRY Then you get this screen:

Select **surface data monthly** (again, for the US example)

Notice we are now in the DS3220 datasets, not TS3220….
Select your state, I selected Arkansas

Now I want to select Fayetteville Exp Stn

Hit continue

The next screen looks more confusing than it really is. You will look for your variables, MMXT (monthly mean maximum temperature), and the precipitation variables. You will need to request one variable at a time.

On this page, you will be selecting four things:
You will Select Meteorological Element: (highlight in blue one variable)
Then select date range: make "from" at least 10 years back in time
Select Output Format: delimited, no station name
Select Output Format Delimiter: comma

Since you need a total of 4 data elements, you will be going back to this "select meteorological element" page 4 times, you will be a pro!

NNDC CLIMATE DATA ONLINE

Monthly data for Arkansas / Selected stations - 1 stations *(List appears below)*

Select Meteorological Element(s): (SEE NOTES BELOW)

HTDD Monthly heating degree days - base 65 deg F.
HXyz Highest maximum soil temp for the month (deg F)
LNyz Lowest minimum soil temp for the month (deg F)
LOyz Lowest soil temp at observation time (deg F)
LXyz Lowest maximum soil temp for the month (deg F)
MMNP Monthly mean minimum temp of evap pan water (deg F
MMNT Monthly mean minimum temp (deg F)
MMXP Monthly mean maximum temp of evap pan water (deg F
MMXT Monthly mean maximum temp (deg F)
MNTM Monthly mean temp (deg F)

The *ALL* option will select all available data elements.
Use the Shift or Control key with mouse click TO SELECT multiple elements.
More notes below

Date Range (Year):
From 1993
To 2003 Through 08/2005

Select Output Format:
Delimited - No Station Names
Delimited - Station Names

Select Output Format Delimiter:
(only if Delimited format selected above)
Comma
Space

Output via FTP

Continue   Clear Selections   Previous Page   New Search

Check the inventory review and put in your email address.

NNDC CLIMATE DATA ONLINE

DS3220 - Surface Data, Monthly - US & some Non-US Cooperative, Request Summary

Arkansas / Selected Stations - includes 1 stations *(See selected stations below)*

Selected Meteorological Element(s): 'MMXT'	Date Range (Year): 1993 to 2003
	Selected Output Format: Comma Delimited, without station name
	Selected Output Media: FTP
	Total Data Rows Available: 11 - View Inventory
	Output File Size (bytes): 3302

☑ **Inventory Review:** I have reviewed the **Inventory File** to see if the elements/dates desired are included *before* ordering. Some time periods or elements may be missing.

IMPORTANT! Please enter a **valid** email address below so we can notify you when your request has finished processing.

E-mail Address: alevel@colostate.edu

Submit Request

Then hit submit request.

Check page, you will then click on the line with the URL

NNDC CLIMATE DATA ONLINE

DS3220 - Surface Data, Monthly - US & some Non-US Cooperative, Request Verification

Your DS3220 - Surface Data, Monthly - US & some Non-US Cooperative request - CDO00840652 has been submitted for processing.

You will be notified by email at **alevel@colostate.edu** when processing has completed for your request.

NOTICE! Click on the following URL to access your files:
http://www1.ncdc.noaa.gov/pub/orders/CDO959416763241.html

This is the next screen:
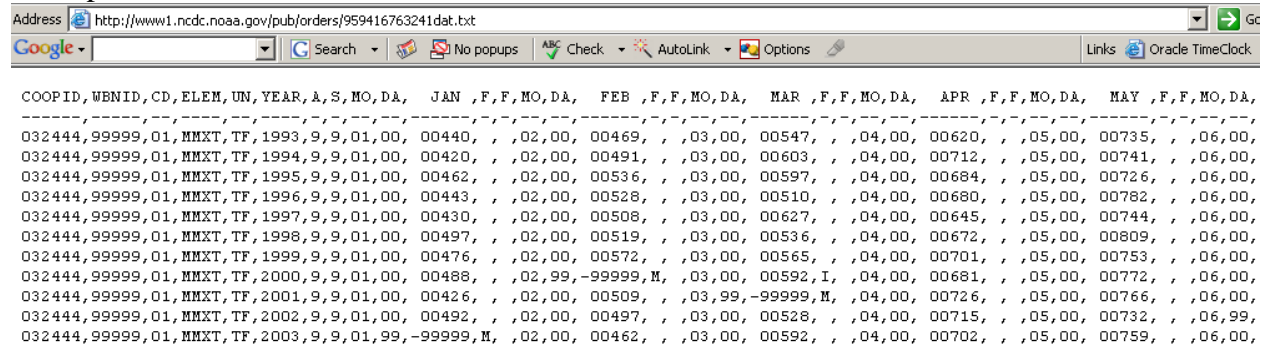
From the time you submitted your request it may be several minutes (to several hours for larger volumes) before your data, data inventory and station list files are available. **For this reason it is recommended that you bookmark this web page for future reference and access to your files.** You will also receive email notification when your data files are ready.

This web page and the data files / web forms listed below will be available for **7 days**, after which they will be deleted from NCDC's web server.

File Contents	Access URL	File Size Estimate (bytes)
DS3220 - Surface Data, Monthly - US & some Non-US Cooperative - Data File	http://www1.ncdc.noaa.gov/pub/orders/959416763241dat.txt	3302
DS3220 - Surface Data, Monthly - US & some Non-US Cooperative - Inventory	http://www1.ncdc.noaa.gov/pub/orders/959416763241inv.txt	903
Station List	http://www1.ncdc.noaa.gov/pub/orders/959416763241stn.txt	503
DS3220 - Surface Data, Monthly - US & some Non-US Cooperative format documentation	http://cdo.ncdc.noaa.gov/cdo/3220doc.txt	Not available

You will want to look at the first and last links above. **The first URL is for your data. The last link is for the documentation, it tells you things like whether the temperature data is F or C, and whether the precipitation data is in cm or inches. You will need to know this for the graph labels.**

Example of the data in the first URL

```
COOPID,WBNID,CD,ELEM,UN,YEAR,A,S,MO,DA,  JAN ,F,F,MO,DA,  FEB ,F,F,MO,DA,  MAR ,F,F,MO,DA,  APR ,F,F,MO,DA,  MAY ,F,F,MO,DA,
------,-----,--,----,--,----,-,-,--,--,------,-,-,--,--,------,-,-,--,--,------,-,-,--,--,------,-,-,--,--,------,-,-,--,--,
032444,99999,01,MMXT,TF,1993,9,9,01,00, 00440, , ,02,00, 00469, , ,03,00, 00547, , ,04,00, 00620, , ,05,00, 00735, , ,06,00,
032444,99999,01,MMXT,TF,1994,9,9,01,00, 00420, , ,02,00, 00491, , ,03,00, 00603, , ,04,00, 00712, , ,05,00, 00741, , ,06,00,
032444,99999,01,MMXT,TF,1995,9,9,01,00, 00462, , ,02,00, 00536, , ,03,00, 00597, , ,04,00, 00684, , ,05,00, 00726, , ,06,00,
032444,99999,01,MMXT,TF,1996,9,9,01,00, 00443, , ,02,00, 00528, , ,03,00, 00510, , ,04,00, 00680, , ,05,00, 00782, , ,06,00,
032444,99999,01,MMXT,TF,1997,9,9,01,00, 00430, , ,02,00, 00508, , ,03,00, 00627, , ,04,00, 00645, , ,05,00, 00744, , ,06,00,
032444,99999,01,MMXT,TF,1998,9,9,01,00, 00497, , ,02,00, 00519, , ,03,00, 00536, , ,04,00, 00672, , ,05,00, 00809, , ,06,00,
032444,99999,01,MMXT,TF,1999,9,9,01,00, 00476, , ,02,00, 00572, , ,03,00, 00565, , ,04,00, 00701, , ,05,00, 00753, , ,06,00,
032444,99999,01,MMXT,TF,2000,9,9,01,00, 00488, , ,02,99,-99999,M, ,03,00, 00592,I, ,04,00, 00681, , ,05,00, 00772, , ,06,00,
032444,99999,01,MMXT,TF,2001,9,9,01,00, 00426, , ,02,00, 00509, , ,03,99,-99999,M, ,04,00, 00726, , ,05,00, 00766, , ,06,00,
032444,99999,01,MMXT,TF,2002,9,9,01,00, 00492, , ,02,00, 00497, , ,03,00, 00528, , ,04,00, 00715, , ,05,00, 00732, , ,06,99,
032444,99999,01,MMXT,TF,2003,9,9,01,99,-99999,M, ,02,00, 00462, , ,03,00, 00592, , ,04,00, 00702, , ,05,00, 00759, , ,06,00,
```
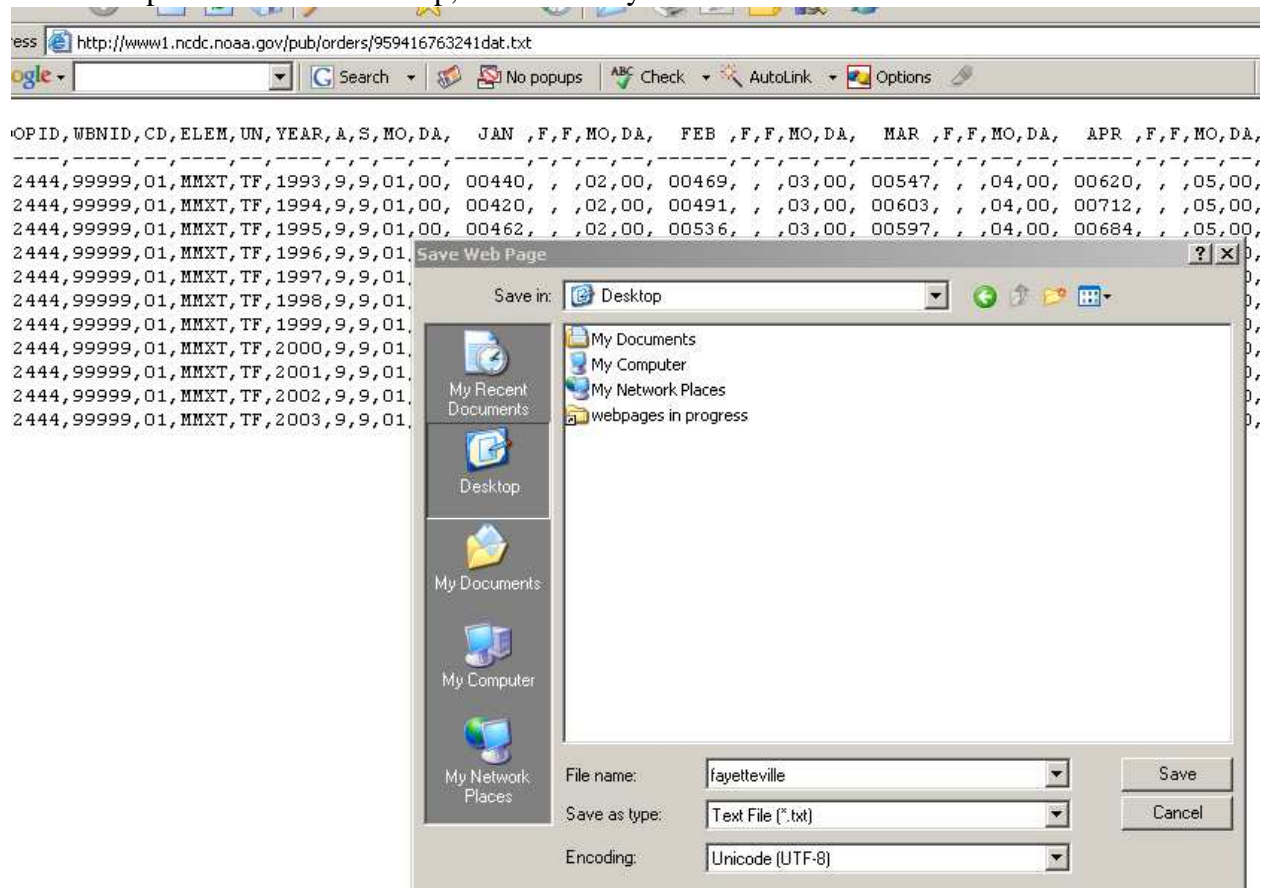
Now you want to save the data to a file. Go up to the upper left on your computer where it says file, then select save as, you may want to change the save in location.

This example saves to the desktop, file name Fayetteville

Then click on "save"

You have now saved your NCDC file as a text or .txt file.

The next step is to import the file into Excel, so you can clean up the columns and have the data in something that will be helpful.

Open up the Excel program on your computer (start, program, excel)
You will need to go to the top left, file, open, and get to the folder or location where you save the file.

You will also need to change files of type from Microsoft excel files to all files.

Now open up in excel, the txt file you want to convert. I want Fayetteville.txt

You will now get some text wizard screens. On this first one, put the black dot on delimited. Then click on next.

On this next screen, change the check mark to comma, then hit next:

Lastly just click on finish

OK,
I would then go up top left to file, save as and give it a file name and save as an excel file, not a text file.

Now you will want to clean up your data as needed. To do this you may have to compress columns or remove them, follow what your instructor tells you.

Remember, for the dates such as this:

JAN	
------	-
-99999	N
644	I
603	
588	

-99999 means an error and valid data was not collected for that month
644 is really 64.4 degrees F
588 is 58.8F
watch out, international temps may NOT be in F check your data guide.

OK, now go back to the NCDC site and get your other variables.

The NCDC site goes down off and on in early March. This has happened the past 2 years, so DON'T WAIT until the last minute to get your data from the site. If the site is down, you can't get your data. We don't have "extra copies" of data in the library. You must use the website.

Before:

```
ELEM,UN,YEAR,A,S,MO,DA,  JAN ,F,F,MO,DA,  FEB ,F,F,MO,DA,  MAR ,F,F,MO,DA,
----,--,----,-,-,--,--,------,-,-,--,--,------,-,-,--,--,------,-,-,--,--,-
MMXT,TF,1978,9,9,01,99,-99999,M, ,02,99,-99999,M, ,03,99,-99999,M, ,04,99,-
MMXT,TF,1979,9,9,01,00, 00784, , ,02,00, 00757,I, ,03,00, 00790,I, ,04,00,
MMXT,TF,1980,9,9,01,00, 00800, , ,02,00, 00811, , ,03,99,-99999,M, ,04,00,
MMXT,TF,1981,9,9,01,99,-99999,M, ,02,00, 00832, , ,03,00, 00844, , ,04,00,
MMXT,TF,1982,9,9,01,99,-99999,M, ,02,99,-99999,M, ,03,99,-99999,M, ,04,99,-
MMXT,TF,1983,9,9,01,00, 00807, , ,02,00, 00801, , ,03,00, 00811, , ,04,00,
MMXT,TF,1984,9,9,01,00, 00819, , ,02,99,-99999,M, ,03,00, 00839, , ,04,00,
MMXT,TF,1985,9,9,01,00, 00823, , ,02,00, 00825, , ,03,00, 00824, , ,04,00,
MMXT,TF,1986,9,9,01,00, 00818, , ,02,00, 00803, , ,03,00, 00833, , ,04,00,
MMXT,TF,1987,9,9,01,99,-99999,M, ,02,00, 00790,I, ,03,00, 00819,I, ,04,00,
MMXT,TF,1988,9,9,01,99,-99999,M, ,02,00, 00831,I, ,03,00, 00830,I, ,04,99,-
MMXT,TF,1989,9,9,01,99,-99999,M, ,02,99,-99999,M, ,03,99,-99999,M, ,04,99,-
MMXT,TF,1990,9,9,01,99,-99999,M, ,02,00, 00788,I, ,03,00, 00793,I, ,04,99,-
MMXT,TF,1991,9,9,01,00, 00799,I, ,02,00, 00814,I, ,03,99,-99999,M, ,04,00,
MMXT,TF,1992,9,9,01,99,-99999,M, ,02,99,-99999,M, ,03,00, 00815,I, ,04,99,-
MMXT,TF,1993,9,9,01,99,-99999,M, ,02,99,-99999,M, ,03,99,-99999,M, ,04,99,-
MMXT,TF,1994,9,9,01,99,-99999,M, ,02,99,-99999,M, ,03,00, 00790,I, ,04,99,-
```

After:

	A1	▼	fx	COOPID			
	D	E	F	K	P	U	Z	AE

	D	E	F	K	P	U	Z	AE
1	ELEM	UN	YEAR	JAN	FEB	MAR	APR	MAY
2	----	--	----	------	------	------	------	------
3	MMXT	TF	1978	-99999	-99999	-99999	-99999	-99999
4	MMXT	TF	1979	784	757	790	816	848
5	MMXT	TF	1980	800	811	-99999	849	855
6	MMXT	TF	1981	-99999	832	844	858	864
7	MMXT	TF	1982	-99999	-99999	-99999	-99999	848
8	MMXT	TF	1983	807	801	811	821	821
9	MMXT	TF	1984	819	-99999	839	847	866
10	MMXT	TF	1985	823	825	824	824	827
11	MMXT	TF	1986	818	803	833	839	851
12	MMXT	TF	1987	-99999	790	819	831	-99999
13	MMXT	TF	1988	-99999	831	830	-99999	-99999
14	MMXT	TF	1989	-99999	-99999	-99999	-99999	837
15	MMXT	TF	1990	-99999	788	793	-99999	833
16	MMXT	TF	1991	799	814	-99999	828	854
17	MMXT	TF	1992	-99999	-99999	815	-99999	-99999
18	MMXT	TF	1993	-99999	-99999	-99999	-99999	-99999
19	MMXT	TF	1994	-99999	-99999	790	-99999	850
20	MMXT	TF	1995	-99999	787	814	-99999	833
21	MMXT	TF	1996	804	774	793	839	841
22	MMXT	TF	1997	784	828	828	827	840
23	MMXT	TF	1998	791	797	818	815	826
24	MMXT	TF	1999	793	795	803	813	832
25	MMXT	TF	2000	788	801	816	814	846
26	MMXT	TF	2001	810	-99999	809	809	832
27	MMXT	TF	2002	784	774	773	804	820
28	MMXT	TF	2003	775	787	821	831	843

For an international city, use your handouts from before, when you get to the screen where you can select at station, put in your international city. In this example I am using Santiago, Chile. I type in Santiago, and get several listings.

Select the monthly for 6-1991 to 12-2002.

Station(s) found matching: santiago.

Click on the links provided below to access/download data for a particular station.

Station	Dataset - POR
SANTIAGO, PANAMA ISH ID: **78795099999**	TD3505 - Surface Data, Hourly Global - 01/2003 to 08/2003
SANTIAGO DAM, CA UNITED STATES COOP ID: **047987**	TD3240 - Precipitation Data, Hourly - US & some non-US - 07/1948 to 06/2001 TD3260 - Precipitation Data, 15 minute - US & some non-US - 01/1984 to 05/2001
SANTIAGO DE CUBA, CUBA ISH ID: **78264099999**	TD3505 - Surface Data, Hourly Global - 01/2003 to 08/2003
SANTIAGO DEL ESTERO, ARGENTINA ISH ID: **87129099999**	TD3505 - Surface Data, Hourly Global - 01/2003 to 08/2003
SANTIAGO DEL ESTERO, ARGENTINA WMO ID: **87129**	TD3500 - Surface Data, Monthly Global - 01/1987 to 12/2002
SANTIAGO INTL ARPT, DOMINICAN REPUBLIC ISH ID: **78460099999**	TD3505 - Surface Data, Hourly Global - 01/2003 to 08/2003
SANTIAGO PEAK, CA UNITED STATES COOP ID: **047993**	TD3240 - Precipitation Data, Hourly - US & some non-US - 07/1971 to 09/2003 TD3260 - Precipitation Data, 15 minute - US & some non-US - 07/1971 to 09/2003
SANTIAGO QUINTA NORMAL, CHILE WMO ID: **85577**	TD3500 - Surface Data, Monthly Global - 06/1991 to 12/2002

As of January, 2006 the TD3500 dataset is working online.

Then you get this screen, remember to change the dates in the Use date range:

Then you get all the usual screens asking you for your email, etc. etc.

Text data for international cities include several columns of various data. Use the file that acts as the "legend" to find out what they mean. This file is the 4th file on your page that has data files. In this example, it is the file with the name 3500doc.txt at the end.

This web page and the data files / web forms listed below will be available for **7 days**, after which they will be deleted from NCDC's web server.

File Contents	Access URL	File Size Estimate (bytes)
TD3500 - Surface Data, Monthly Global - Data File	http://www1.ncdc.noaa.gov/pub/orders/285159439696dat.txt	1437
TD3500 - Surface Data, Monthly Global - Inventory	http://www1.ncdc.noaa.gov/pub/orders/285159439696inv.txt	290
Station List	http://www1.ncdc.noaa.gov/pub/orders/285159439696stn.txt	549
TD3500 - Surface Data, Monthly Global format documentation	http://cdo.ncdc.noaa.gov/cdo/3500doc.txt	Not available

Your data file, the top file in this example includes several columns of data.

For example for international data:
MTMP=mean temperature in C to the 1/10 so 214 is 21.4C
TOTP=total precipitation in mm

Use your "legend" file to locate the description of the other variables.

Address 🔲 http://www1.ncdc.noaa.gov/pub/orders/285159439696dat.txt

```
D,WMOID ,YRMNTH,ND,MSTPR,MSEPR,I,MTMP,DTPAV,MVP,DVPA,DP,TOTP,DPAVE,P,SDR,SPA,M
-,-----,-----,--,-----,-----,-,----,-----,---,----,--,----,-----,-,---,---,-
1,85577 ,200112, , 9526,10109, , 214,     ,145,   , 0,   0,    ,3,325,100,
1,85577 ,200201, , 9536,10120, , 214,     ,142,   , 0,  -1,    ,4,333,100,
1,85577 ,200202, , 9532,10119, , 204,     ,150,   , 0,   0,    ,4,288,105,
1,85577 ,200203, , 9534,10125, , 189,     ,139,   , 1,   2,    ,4,239, 95,
1,85577 ,200204, , 9554,10157, , 138,     ,119,   , 3,  14,    ,4,187, 95,
1,85577 ,200205, , 9543,10151, , 116,     ,105,   ,MM, 601,    ,3,120, 90,
1,85577 ,200206, , 9572,10191, ,  75,     , 87,   , 6, 248,    ,5,124,120,
1,85577 ,200207, , 9580,10197, ,  84,     , 87,   , 6,  92,    ,4,152,130,
1,85577 ,200208, , 9567,10179, , 104,     ,105,   ,10,  74,    ,5,123, 80,
1,85577 ,200209, , 9573,10180, , 126,     ,109,   , 2,  28,    ,4,157, 90,
1,85577 ,200210, , 9552,10152, , 148,     ,113,   , 2,   4,    ,2,203, 95,
1,85577 ,200211, , 9551,10145, , 172,     ,117,   , 0,  -1,    ,1,278,105,
1,85577 ,200212, , 9544,10133, , 196,     ,129,   , 1,   1,    ,4,315, 95,
```

For this example I used just one year of data, you will need more than one year.

NOTICE: The international data combines ALL data elements and can be confusing. TAKE YOUR TIME as you look through the data. Make sure you print out the legend file (document) that tells you the field number, the data element, and the measurement used (i.e. is temperature in F or C for international data??)

Other Library Resources You May Need:

How to find INTERNATIONAL CITY DATA
Locate an international city using the TIMES ATLAS OF THE WORLD (Plate 3).
Copies of this atlas are located in the EIC, as well as in the Map/Atlas Collection on the First
Floor, South.

Use the NCDC Website for precipitation data for your international city.

How to find SOIL SURVEY INFORMATION
You must use the print copies of the Soil Survey for your home county. These are located in the
Documents collection (A57.38:) on the Fourth Floor, South Wing. Records for many of these
soil surveys can be located in SAGE, but some older ones do not have records in SAGE.
Most of the surveys are shelved alphabetically by County at the above call number. Surveys that
were published before the 1960's are under different call numbers, so check SAGE or the list of
Published Soil Surveys located at the Information Desk, if you do not find your county. Not all
counties in the United States have been surveyed so you may not find yours - just use one from a
close-by county.

Some of the Colorado Soil Surveys are available on the Web. The Colorado surveys have been
cataloged in the CSU Library Catalog (Sage). You may search SAGE by keyword and put in soil
survey then search location: web.

OTHER CLASSES are using soil surveys and checking them out of the library. DON'T wait
until the last minute. Usually we have one copy of a survey, other copies are available from
Prospector but you have to plan on 3-4 working days of travel time.