Data Analysis For Maximum Safety Coincident Dry-Bulb Temperature

YEARLY EXTREMES			
Year	Waynesboro	Augusta	Louisville
1931			104
1932			102
1933			103
1934			103
1935			102
1936			105
1937			99
1938			100
1939			105
1940	100		97
1941	102		105
1942	103		102
1943	102		100
1944	104		105
1945	102		102
1946	98		97
1947	97		99
1948	103		103
1949	103		101
1950	107		106
1951	104	103	105
1952	108	106	112
1953	102	101	104
1954	106	103	107
1955	98	97	99
1956	101	96	99
1956	97	104	105
1957	100	102	103
1958	100	100	103
1959	102	100	102
1960	94	100	96
1961	98	99	100
1962	100	102	98
1963	99	100	99
1964	99	99	101
1965	99	96	98
1966	98	99	98
1967	96	94	95
1968	103	104	100
1969	102	98	99
1970	105	102	102
1971	100	100	98
1972	100	100	99
1973	97	97	98
1974	98	94	96
1975	98	98	99
1976	97	100	99
1977	103	104	101
1978	105	103	104
1979	98	99	97
1980	108	107	103
1981	102	101	99
1982	98	100	95
1983	105	108	104
1984	97	101	100
1985	100	104	102
1986	104	106	105
1987	101	103	102
1988	100	100	101
1989	97	98	98
1990		104	103
1991		98	98
1992	96	99	98
1993	101	104	101
1994	94	95	94
1995	99	100	102
1996	101	100	103
1997	99	100	100
1998	104	103	105
1999	106	107	105
2000	105	101	104
2001	94	97	100
2002	101	101	101
2003	94	94	95
2004	98	99	99
2005	98	99	100

Approach from 2001 ASHRAE Handbook (27.3)					
	Mean of the annual extremes	standard deviation	I	F	100-year return maximum
Waynesboro	100.46	3.43	1.00	3.14	111.21
Augusta	100.52	3.28	1.00	3.14	110.81
Louisville	100.96	3.25	1.00	3.14	111.15

This data was compiled from the National Climatic Data Center's Monthly Surface Data (DS3220)
http://cdo.ncdc.noaa.gov/pls/plclimprod/poemain.cdobystn?dataset=DS3220&StnList=099194NNNNN

NNDC CLIMATE DATA ONLINE

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

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

DT60 Number days with minimum temp <= 59 deg F.
DT70 Number days with maximum temp >= 70 deg F.
DT90 Number days with maximum temp >= 90 deg F.
DX15 Number days with maximum temp <= 15 deg C.
DX32 Number days with maximum temp <= 32 deg F.
DX60 Number days with maximum temp <= 59 deg F.
EMNT Extreme minimum temp for the month (deg F)
EMXP Extreme maximum daily precip in the month (deg F)
EMXT Extreme maximum temp for the month (deg F)
FRZD Freeze Date

Date Range (Year):
From 1940
To 2007 Through 08/2007

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

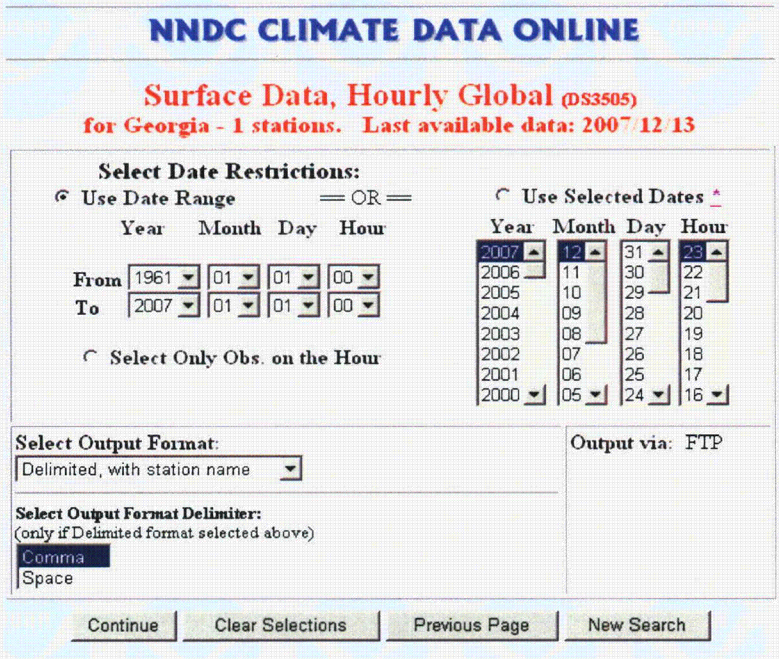
Continue | Clear Selections | Previous Page | New Search

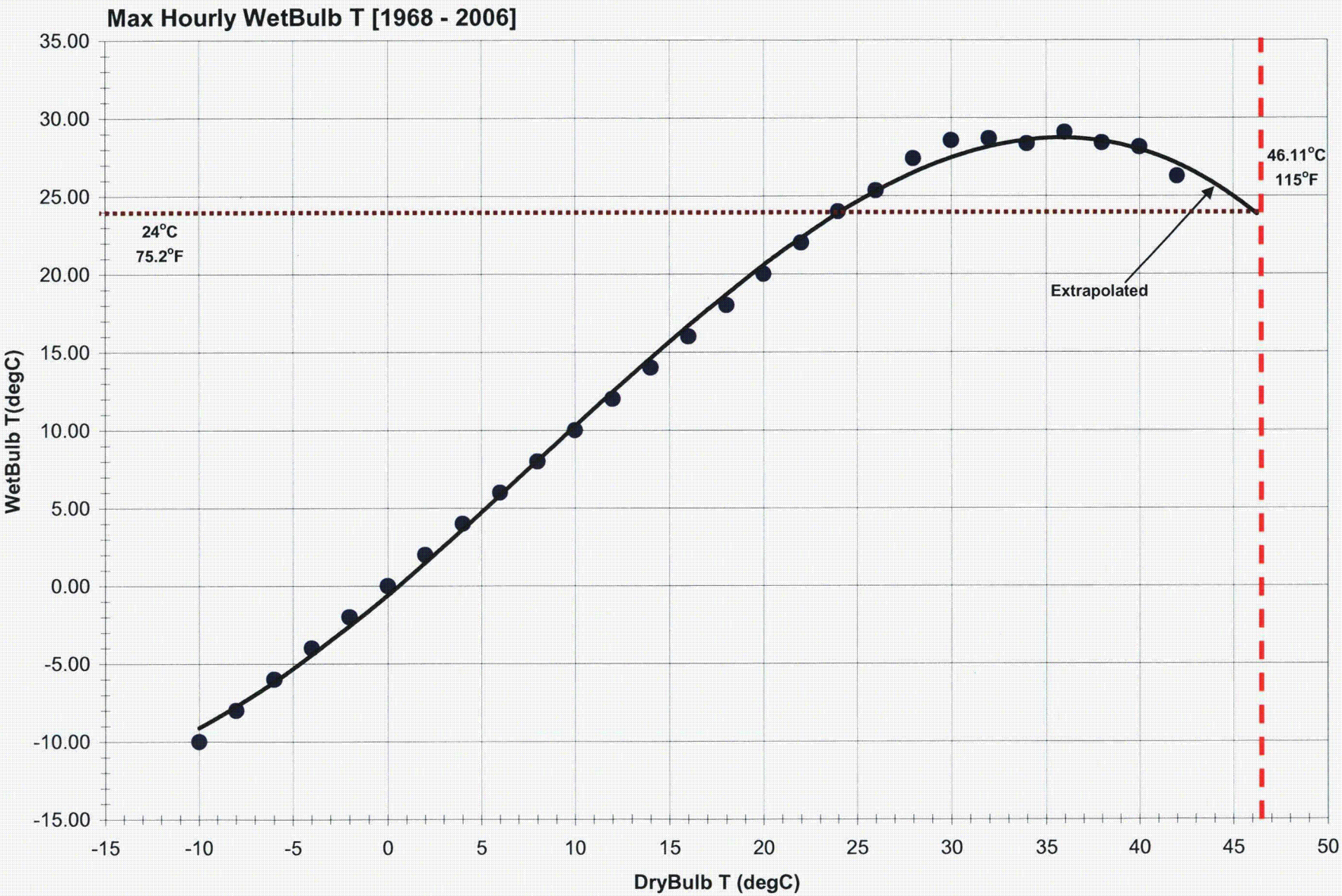
Data Analysis For Maximum Safety Coincident Wet-Bulb Temperature

DryBulb T	Maximum Wet-Bulb Temperature For The Given Dry-Bulb Temperature
-10	-10.000
-8	-8.000
-6	-6.000
-4	-4.000
-2	-2.000
0	0.000
2	2.000
4	4.000
6	6.000
8	8.000
10	10.000
12	12.000
14	14.000
16	16.000
18	18.000
20	20.000
22	22.000
24	24.000
26	25.350
28	27.400
30	28.543
32	28.667
34	28.346
36	29.072
38	28.409
40	28.141
42	26.269

This data was compiled from the National Climatic Data Center's Hourly Surface Data (DS3505) for Augusta, GA

http://cdo.ncdc.noaa.gov/pls/plclimprod/cdomain.abbrev2id



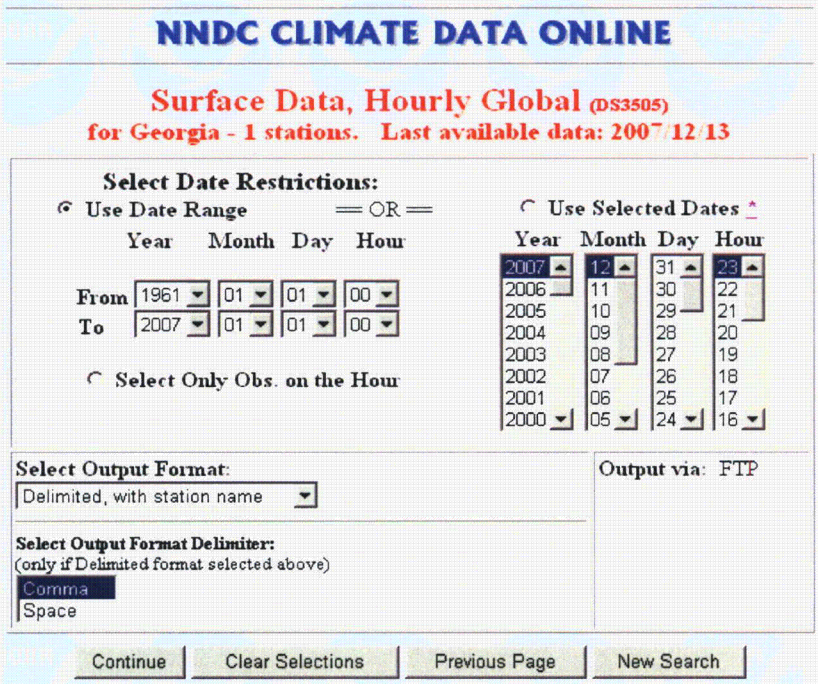

Max Hourly WetBulb T [1968 - 2006]
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
WetBulb T(degC)
-15
-10
-5
0
5
10
15
20
25
30
35
40
45
50
DryBulb T (degC)
24°C
75.2°F
46.11°C
115°F
Extrapolated

Data Analysis For Maximum Safety Noncoincident Wet-bulb Temperature

Max Wet-Bulb Temperature That Persists For Atleast 2 Hours	
Year	Wet-Bulb
1961	26.67
1962	27.36
1963	26.398
1964	26.367
1965	26.435
1966	26.67
1967	24.992
1968	26.942
1969	26.670
1970	26.315
1971	26.430
1972	27.052
1973	25.863
1974	24.815
1975	25.206
1976	26.033
1977	25.407
1978	25.705
1979	25.614
1980	26.468
1981	27.188
1982	26.952
1983	26.46
1984	25.894
1985	27.416
1986	26.845
1987	27.333
1988	27.083
1989	26.845
1990	27.037
1991	27.921
1992	27.283
1993	27.536
1994	27.591
1995	27.571
1996	27.921
1997	28.346
1998	26.866
1999	28.333
2000	28.097
2001	26.499
2002	27.064
2003	27.261
2004	27.064
2005	27.786
2006	26.504

ASHRAE Approach	
Augusta, GA	
Mean of the annual extremes	26.78
standard deviation	0.84
I	1.00
F	3.14
100-year return maximum	29.41
°F	84.94

Averages	
P.O.R	**100-year T**
10	85.30
15	84.74
20	84.42
25	84.51
31	85.02
35	85.40
40	85.26
45	85.00
AVG	**84.95**

This data was compiled from the National Climatic Data Center's Hourly Surface Data (DS3505) for Augusta, GA

http://cdo.ncdc.noaa.gov/pls/plclimprod/cdomain.abbrev2id