



The Cold Eastern KY January of 2014

A Historical Perspective



National Weather Service Jackson, KY



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January 2014 Historical Perspective

First widespread severe cold since middle 1990s



Repeated cold waves resulted in 3 distinct time periods where temperatures fell below zero.

- * January 6-8
- * January 22-24
- * January 28-30

- * January 2014: 6 record lows set at Jackson and 1 record low at London (Records began 1981 in Jackson and 1954 in London)

Location	Mean Temperature January 2014	Rank among coldest Januaries	Coldest January on Record
Jackson	27.9° F	3 of 34 (Top 10%)	24.5° in 1985
London	28.6° F	10 of 60 (Top 20%)	20.3° in 1977
Farmers (Rowan Co.)	26.6° F	11 of 109 (Top 10%)	16.3° in 1977
Williamsburg (Whitley Co.)	28.1° F	7 of 116 (Top 10%)	21.2° in 1977



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The lowest temperatures observed in January 2014 did not approach all time record low temperatures for the month.

Location	Lowest Temperature January 2014	Last time temperatures were this cold or colder	All time record minimum temperature
Jackson	-7° F	-8° February 4, 1996	-18° on 1/19/1994, 1/21/1985, 1/20/1985
London	-4° F	-25° January 19, 1994	-25° on 1/19/1994
Farmers (Rowan Co.)	-5° F	-13° February 5, 1996	-28° on 1/28/1963
Williamsburg (Whitley Co.)	-3° F	-16° February 6, 1996	-21° on 1/20/1994, 1/19/1994

Record Low for Kentucky -37° in Shelbyville on January 19, 1994



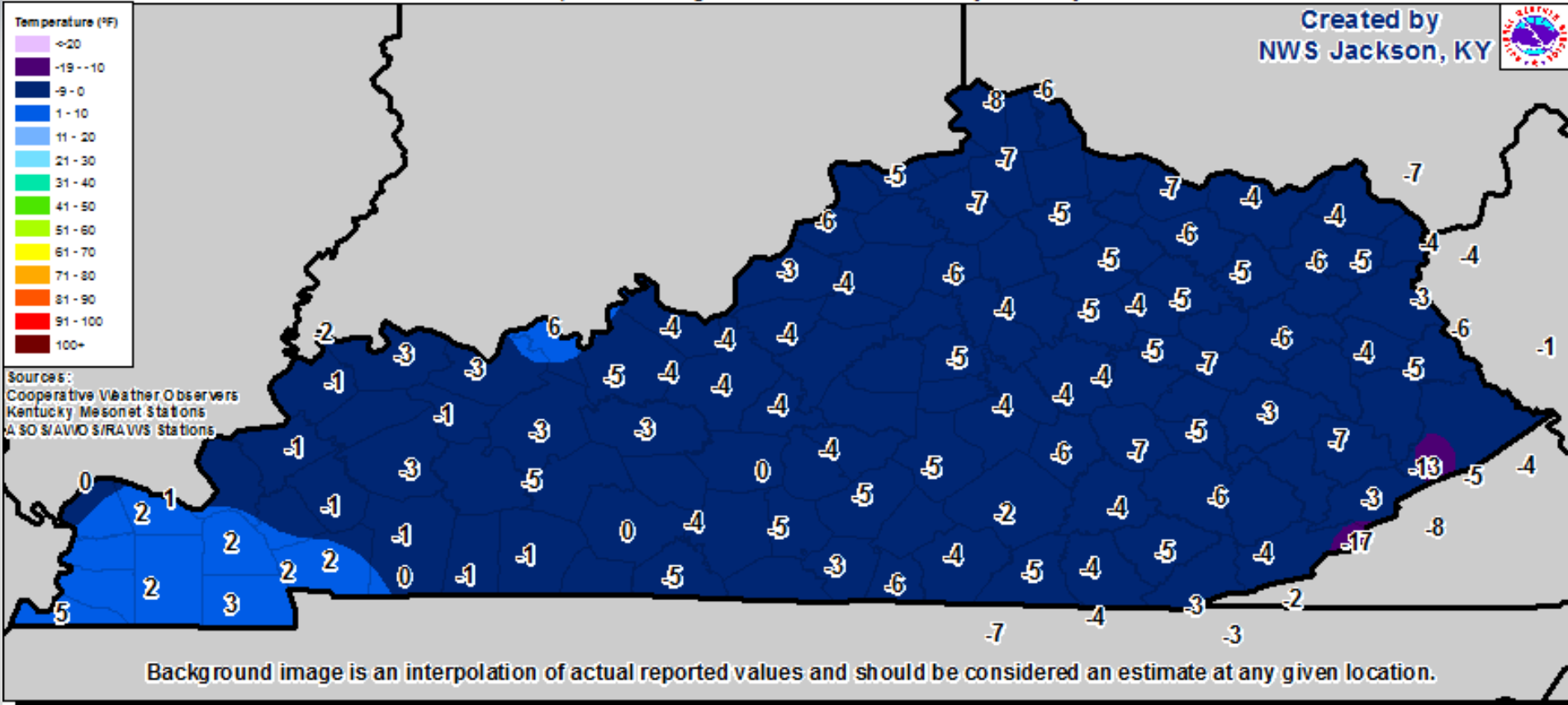
Widespread Sub Zero Temperatures

First widespread severe cold since middle 1990s

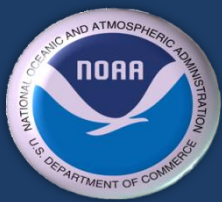


Minimum Temperatures

for the 24 hour period ending around 8 am ET Tuesday, January 07, 2014



Minimum Temperatures Observed the Morning of January 7, 2014



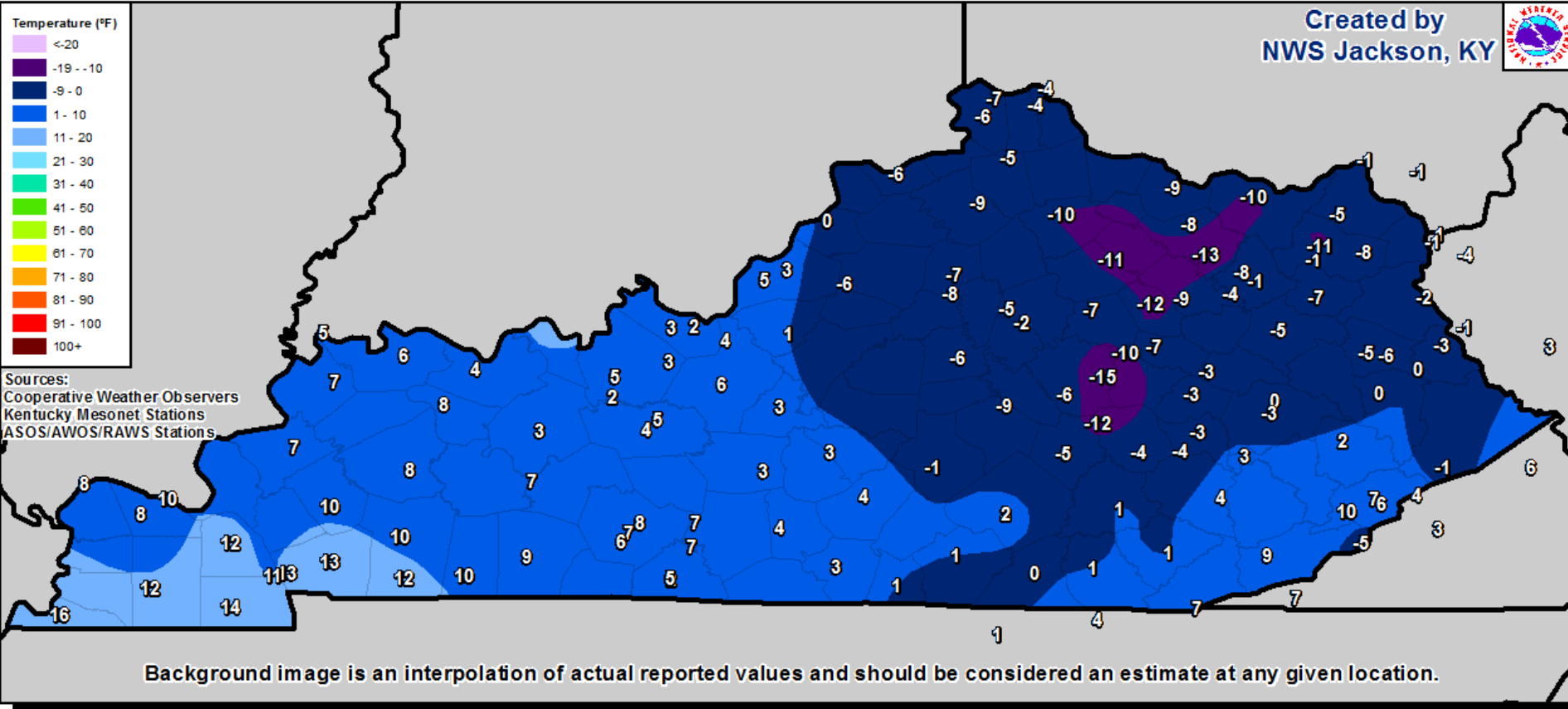
Widespread Sub Zero Temperatures

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Minimum Temperatures

Wednesday Morning January 22, 2014



Minimum Temperatures Observed the Morning of January 22, 2014



Widespread Sub Zero Temperatures

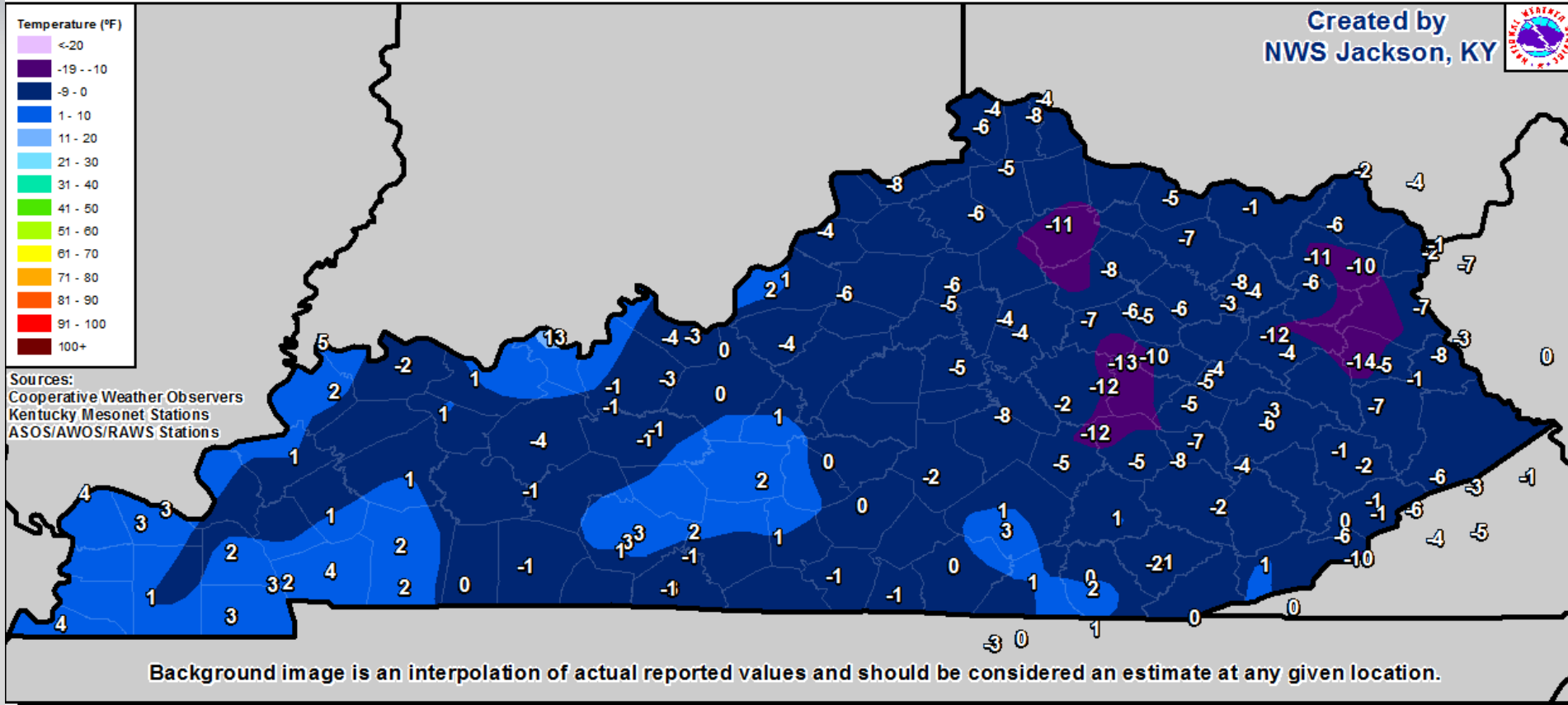
First widespread severe cold since middle 1990s



Minimum Temperatures

Friday Morning January 24, 2014

Created by
NWS Jackson, KY



Minimum Temperatures Observed the Morning of January 24, 2014



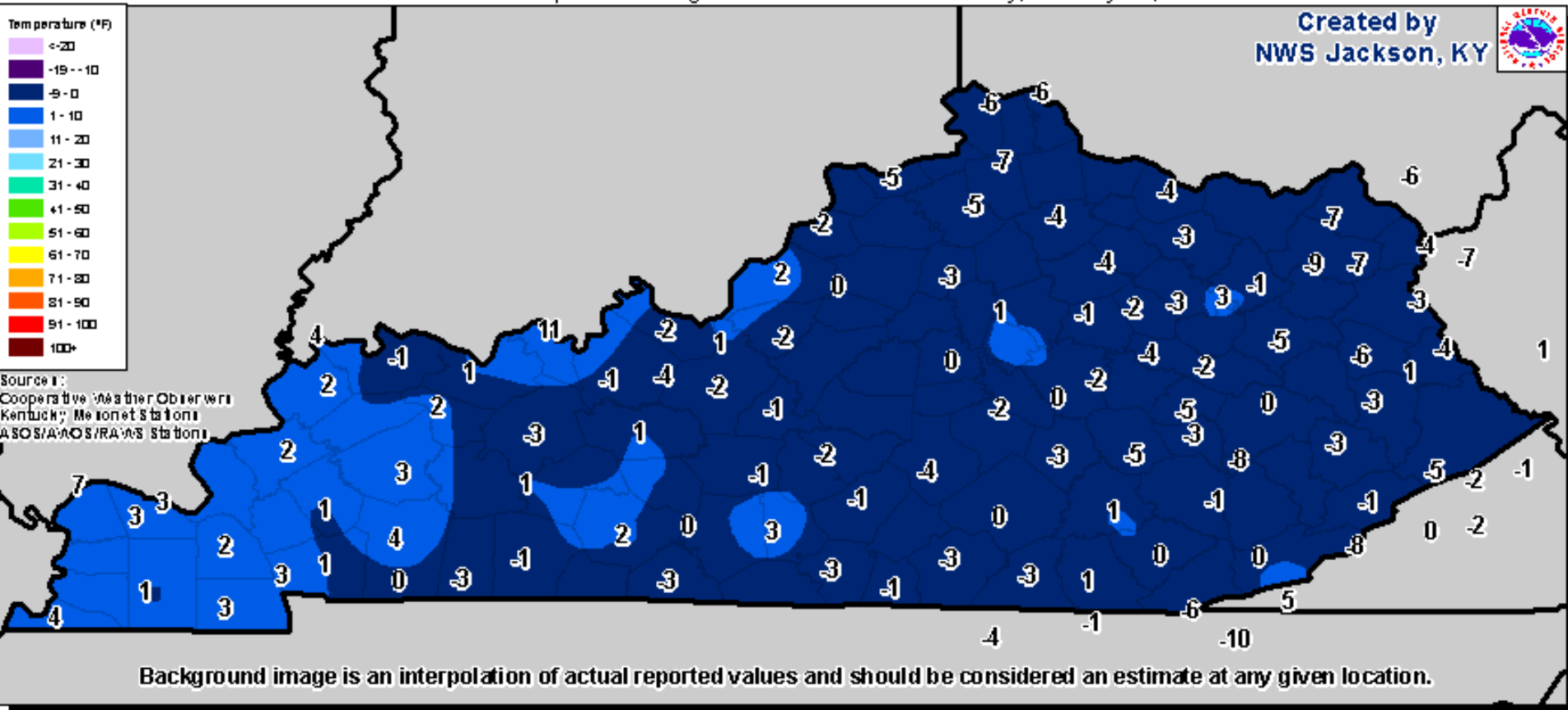
Widespread Sub Zero Temperatures

First widespread severe cold since middle 1990s



Minimum Temperatures

for the 24 hour period ending around 8 am ET Wednesday, January 29, 2014

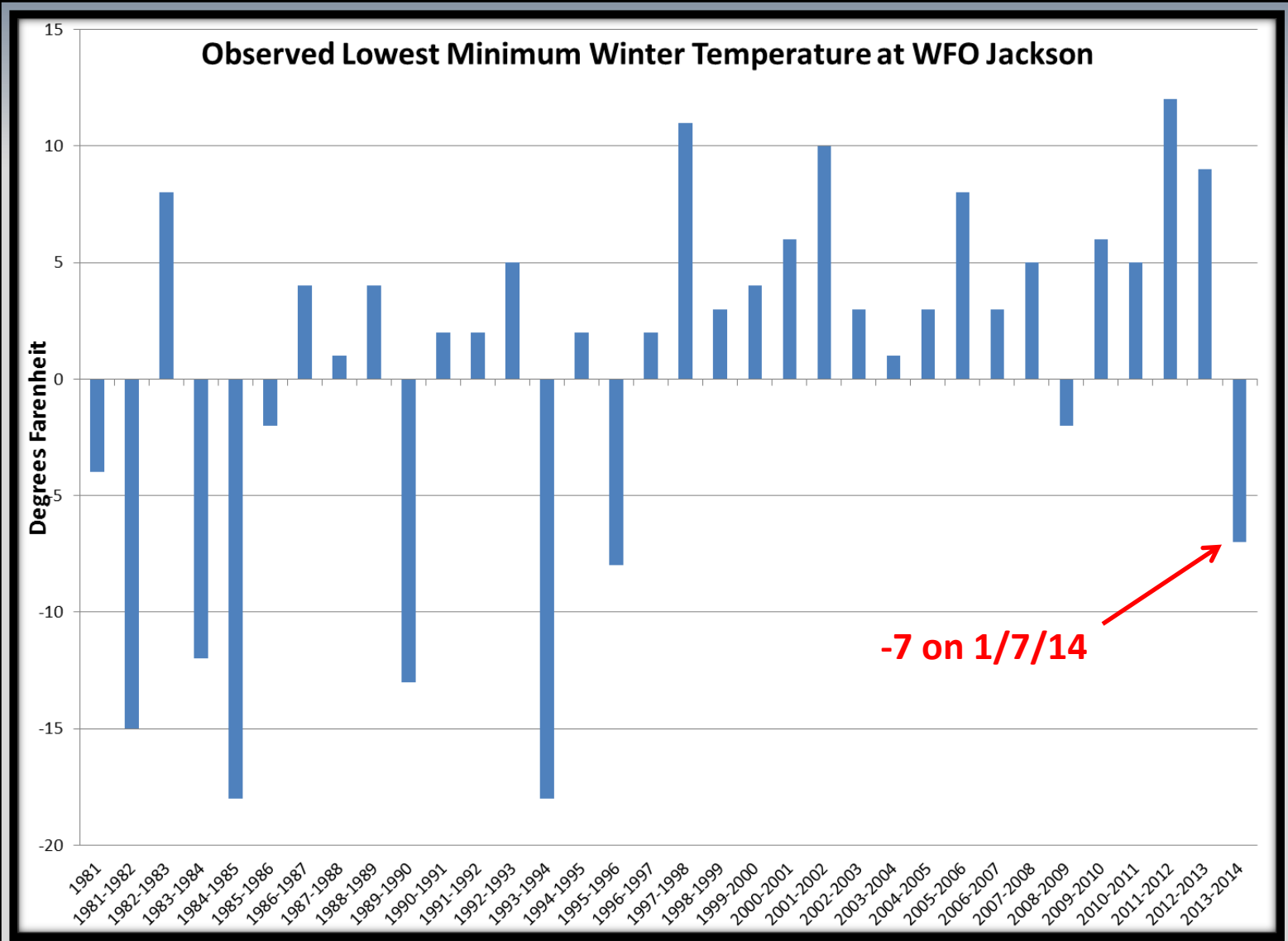


Minimum Temperatures Observed the Morning of January 29, 2014



Coldest Minimum Temperatures

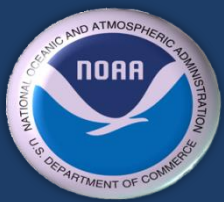
National Weather Service Jackson 1981-2014



Zero or below 31 times 1981-2014.

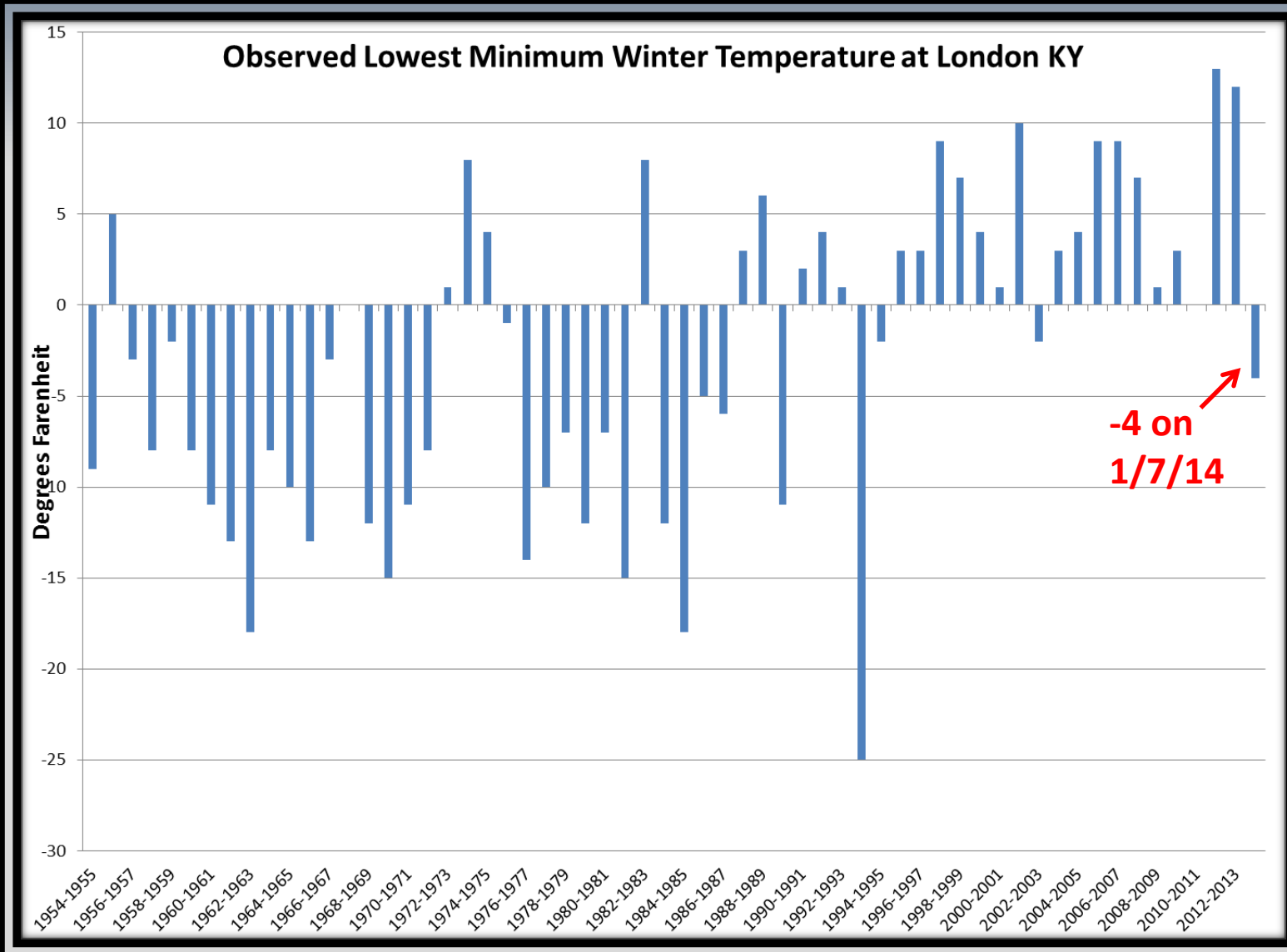
Zero or below 25 times 1981-1996.

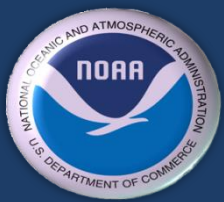
Zero or below 6 times 1997-2014, including 5 times this January.



Coldest Minimum Temperature

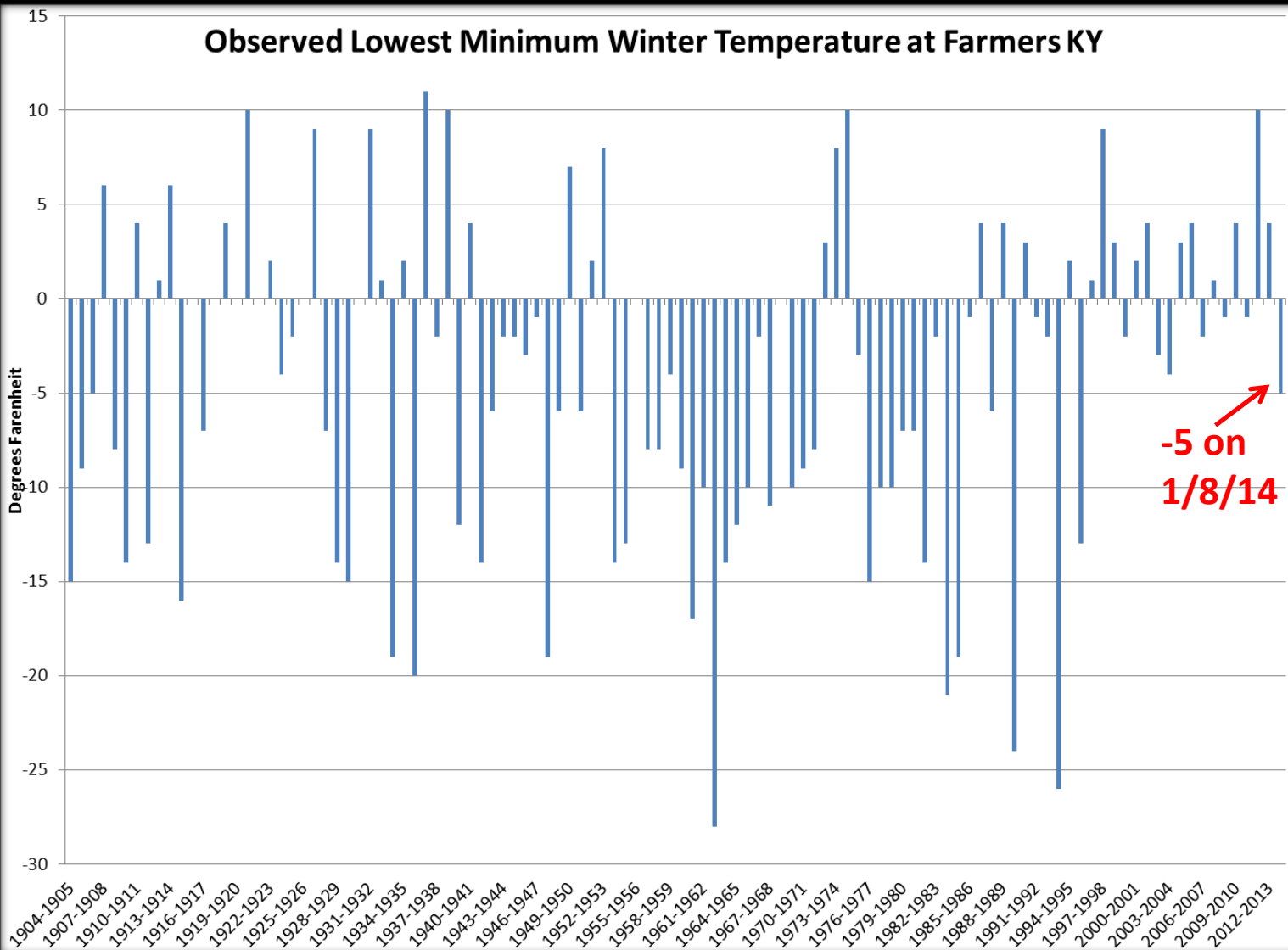
London, KY 1954-2014

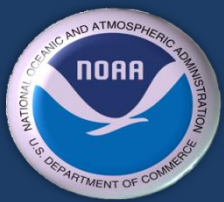




Coldest Minimum Temperature

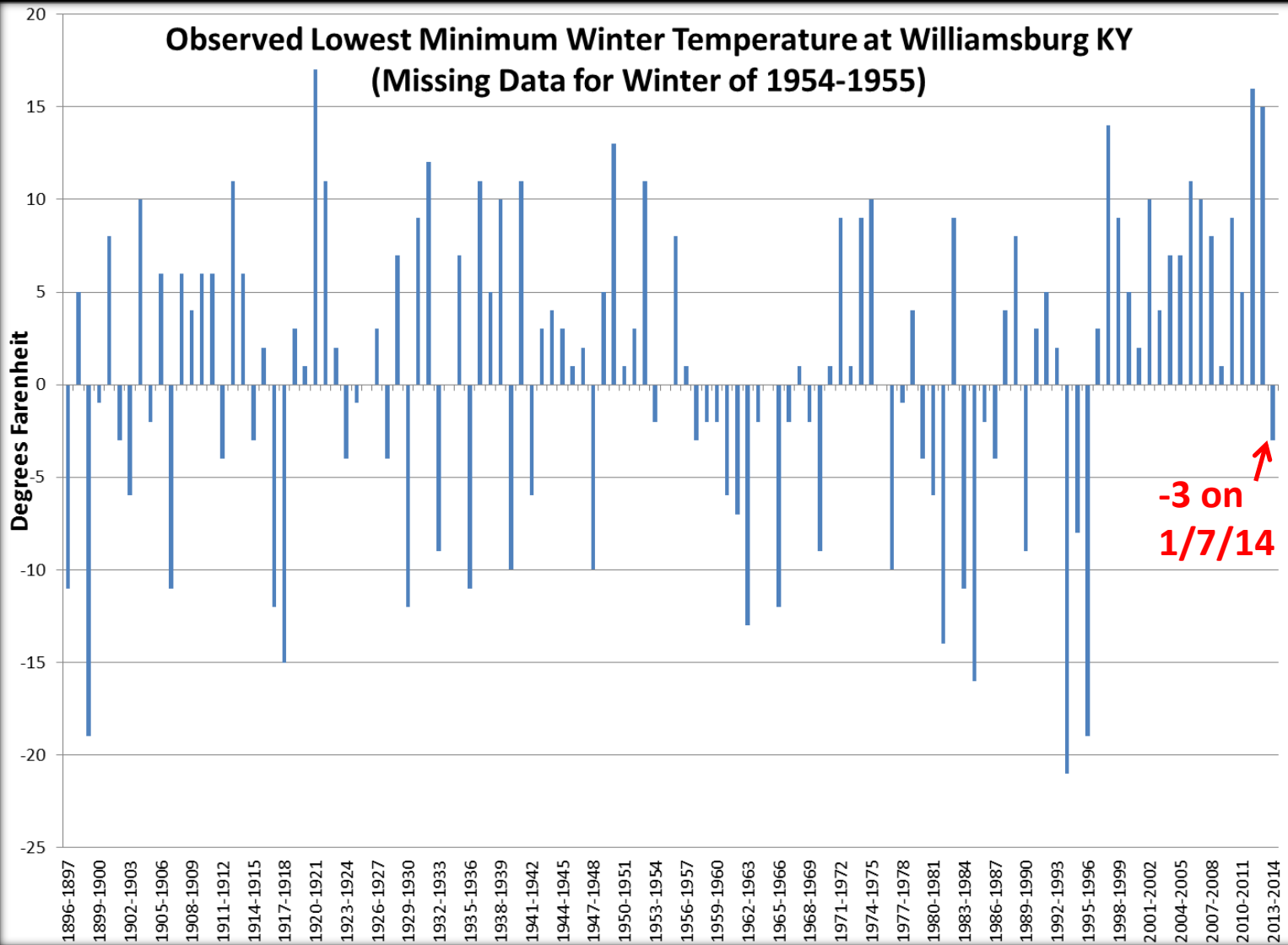
Farmers, KY 1905-2014





Coldest Minimum Temperature

Williamsburg, KY 1897-2014





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- January 2014 – First significant severe cold waves with widespread below zero temperatures in Eastern Kentucky since the middle 1990s.
- Unusual to go this long between major cold waves. Historical records show significant cold waves were more common from the late 1890s to the middle 1990s.
- Unusual to have repeated major cold weather outbreaks such as those experienced in January 2014.
- The lowest minimum temperatures experienced in January 2014 did not approach all time records
- January 2014 was generally in the top 10-20% of coldest Januaries on record for eastern KY, but was still 7 to 10 degrees warmer than the coldest January on record (January, 1977).