The Cold Eastern KY January of 2014
A Historical Perspective

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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


<table>
<thead>
<tr>
<th>Location</th>
<th>Mean Temperature January 2014</th>
<th>Rank among coldest Januaries</th>
<th>Coldest January on Record</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackson</td>
<td>27.9°F</td>
<td>3 of 34 (Top 10%)</td>
<td>24.5°F in 1985</td>
</tr>
<tr>
<td>London</td>
<td>28.6°F</td>
<td>10 of 60 (Top 20%)</td>
<td>20.3°F in 1977</td>
</tr>
<tr>
<td>Farmers (Rowan Co.)</td>
<td>26.6°F</td>
<td>11 of 109 (Top 10%)</td>
<td>16.3°F in 1977</td>
</tr>
<tr>
<td>Williamsburg (Whitley Co.)</td>
<td>28.1°F</td>
<td>7 of 116 (Top 10%)</td>
<td>21.2°F in 1977</td>
</tr>
</tbody>
</table>
The lowest temperatures observed in January 2014 did not approach all time record low temperatures for the month.

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

Record Low for Kentucky -37\(^\circ\) 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
First widespread severe cold since middle 1990s

Minimum Temperatures Observed the Morning of January 22, 2014
Widespread Sub Zero Temperatures
First widespread severe cold since middle 1990s

Minimum Temperatures Observed the Morning of January 24, 2014

Background image is an interpolation of actual reported values and should be considered an estimate at any given location.
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

Background image is an interpolation of actual reported values and should be considered an estimate at any given location.

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.

-7 on 1/7/14
Coldest Minimum Temperature
London, KY 1954-2014

Observed Lowest Minimum Winter Temperature at London KY

-4 on 1/7/14
Coldest Minimum Temperature
Farmers, KY 1905-2014

Observed Lowest Minimum Winter Temperature at Farmers KY

-5 on 1/8/14
Coldest Minimum Temperature
Williamsburg, KY 1897-2014

Observed Lowest Minimum Winter Temperature at Williamsburg KY
(Missing Data for Winter of 1954-1955)

-3 on 1/7/14
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).