

Customer Service Workshop Action Team: Second Set of Action Items

Filling out the feedback forms:
Please give our feedback on our products and
our services. As a National Weather Service
customer, you have a voice. Please be as thorough as possible.
You will have time at the end of the workshop to fill out
feedback forms and have time to ask questions.
Please place the completed form at the
end of the workshop in the box by the
entrance door.

*National Weather Service
Paducah, KY
April 2009*

How to interpret this presentation

- All of the comments that are displayed in this presentation are actual comments taken from the attendees at our four workshops.
- Every surveyed NWS product as well as our breakout session groups at the workshops will be listed with the related comments.
- Each comment was carefully analyzed and then an action item(s) was created to address the comment.
- If you have any questions, comments or concerns about any of the information provided, please contact Christine Wielgos or Rick Shanklin at Christine.Wielgos@noaa.gov or Ricky.Shanklin@noaa.gov
- We attempted to categorize what our response should be (need for education, send this up to a higher level, etc) for each comment. Education means that we need to improve our education program for our users. The information is there, but we need to make it clearer and easier for our customers. Different products are created for different types of users and not all products are useful in all situations.

CIVIL EMERGENCY MESSAGE

COMMENT: *Wished EMs used this option more.*

ACTION ITEM: Rick Shanklin, NWS Paducah's Warning Coordination Meteorologist (WCM), is planning on writing an email to all emergency managers in our region, reminding them of this important product and its uses.

COMMENT: *Need better/wider distribution.*

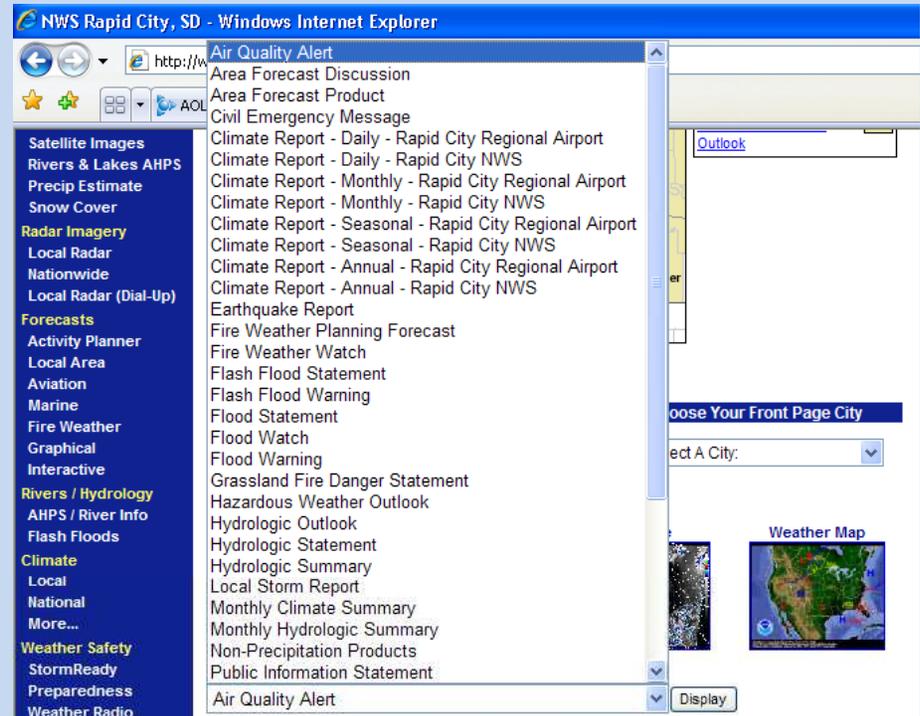
ACTION ITEM: Rick Shanklin, NWS Paducah's Warning Coordination Meteorologist (WCM), is planning on writing an email to all emergency managers in our region, reminding them of this important product and its uses.

PUBLIC INFORMATION STATEMENT

COMMENT: Access? Very hard to find on website.

ACTION ITEM: We are going to work on making our products easier to find on our website. We are thinking of adding a pull down menu such as the one shown here:

In the meantime, you can find the Public Information Statement via the TEXT PRODUCTS link on the left hand menu on our website.



In addition, if a Public Information Statement is issued that contains pertinent information, it will be highlighted in the “Top News of The Day” section on our website as a link.

The next slide will show you where both of these sections are located.

COMMENT: Wish this product was issued more often.

ACTION ITEM: This product is issued on an as needed basis.

PUBLIC INFORMATION STATEMENT

NOAA's National Weather Service Weather Forecast Office

weather.gov



Paducah, KY



Search for:

NWS

All NOAA

Local forecast by "City, St" or Zip Code

City, St

Current Hazards
Watches / Warnings
Outlooks
U.S. Hazards
Hurricane Info
eSpotter
Severe Weather Briefings
Severe Weather Information

Current Conditions
Observations
Satellite Images
Rivers & Lakes AHPS
Precip Estimate
Snow Cover
CoCoRaHS Summary

Radar Imagery
Local Radar
Nationwide
Evansville
Hopkinsville

Forecasts
Activity Planner
Local Area
Aviation
Fire Weather

Text Products

Rivers / Hydrology
AHPS / River Info
River Forecasts
Current Stages

Climate
Local
National
More...

Weather Safety
StormReady
Weather Radio
EMWIN

Top News of the Day

- Storm Survey Teams findings from March 8th Storms
- One inch hail initiative - Starts April 1st
- Four Rivers Severe Weather Symposium March 21
- Additional News Headlines

Watches & Warnings Observations Forecast Graphics Rivers & Lakes Climate Local Overview

Click on the map below for the latest forecast.



Last map update: Tue, Mar. 10, 2009 at 4:13:56 pm CDT

[Read watches, warnings & advisories](#)

- Flood Warning
- Wind Advisory
- Hazardous Weather Outlook
- Short Term Forecast

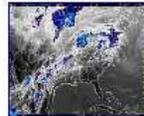
Weather Story



Radar



Satellite



Weather Map



FORECAST-AT-A-GLANCE

PADUCAH					
Late Afternoon	Tonight	Wednesday	Wednesday Night	Thursday	Thursday Night
20%	100%				
Slight Chances of Tstorms	Tstorms	Partly Sunny	Mostly Cloudy	Partly Sunny	Mostly Cloudy
Hi 75 °F	Lo 38 °F	Hi 49 °F	Lo 31 °F	Hi 46 °F	Lo 29 °F

Quad State Outlook

Tuesday	
Hail	Moderate
Thunderstorm Winds	Moderate
Thunderstorms	Moderate
Fire	Low

EARTHQUAKE INFORMATION STATEMENT

COMMENT: *More information needed.*

ACTION ITEM: Education: We are only giving out information we have received.

COMMENT: *Not always accurate, too slow.*

ACTION ITEM: Education: It is only as accurate as the information provided by NEIC (National Earthquake Information Center - neic.usgs.gov).

COMMENT: *Suggest that you add bulleted information, similar to the warnings and surveys: time, location, magnitude, duration, damage reports, etc.*

ACTION ITEM: A formatted template would be nice for consistency. We will work toward creating a bulleted template for the Earthquake Information Statement.

PROBLEM: *It would be nice to have this play on NOAA Weather Radio.*

ACTION ITEM: Education: We will make necessary changes to allow product to go over to the radio automatically.

WINTER STORM WATCH

COMMENT: *Early morning (6-7am) assessment could help for school dismissal/safety.*

ACTION ITEM: **Education: Most of the time, this product is issued prior to 6-7am in the morning. When a winter storm watch is in effect, the earliest we would expect the event to begin is 12 hours after the issuance of the watch. If the event is imminent, most likely a winter storm warning or an advisory will be issued or already be in effect.**

COMMENT: *Use well known landmarks such as "East of I-65" and such in forecasts.*

ACTION ITEM: **We will attempt to use as many landmarks as we can in our winter weather products to help our users.**

COMMENT: *Some events are difficult to predict, but we react financially (resources) by NWS forecasts.*

ACTION ITEM: **We are always cognizant of this fact and always strive to do our best.**

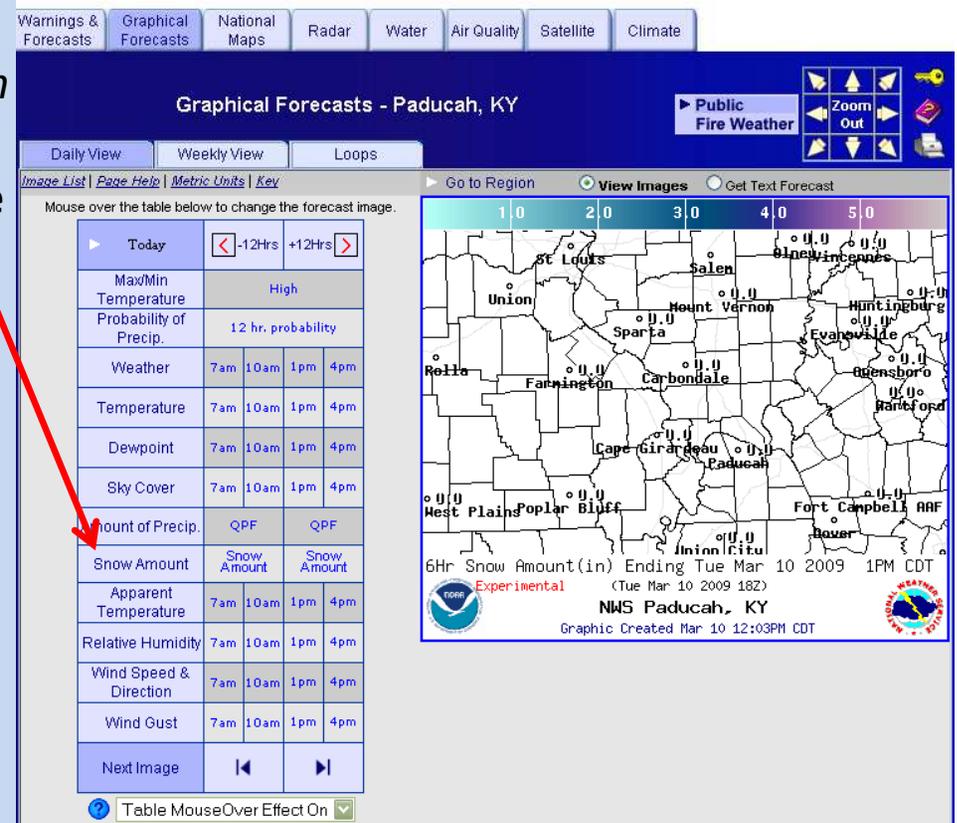
WINTER WEATHER WARNINGS

COMMENT: Specific data for the 6-8am period for travel conditions would help. Trends, coverages etc.

ACTION ITEM: Education: We are always going to try to put as much information as we can in our products. We will be working on including this idea in our winter weather products and we will specify, when possible, impacts on the morning and late afternoon drive times.

COMMENT: Predict snowfall amounts for certain cities or areas.

ACTION ITEM: Visit our graphical forecasts page for our snowfall graphic, which is available out to 48 hours. Storm Total Snow Accumulation graphics are in our future as well.



WINTER WEATHER ADVISORIES

COMMENT: Vague at times

ACTION ITEM: We aim to be as specific as we can. The NWS has recently simplified its Winter Weather Products. We now just issue Winter Weather Advisories and Freezing Rain Advisories. Specific hazard information will be clearly depicted in the first line of the body of the advisory, such as freezing rain, snow etc. Otherwise, the Winter Weather Advisory is used to handle scenarios where we expect mixed precipitation. Here are the criteria for different winter weather that will be used to trigger a winter weather advisory:

Snowfall: When 2 to less than 4 inches is forecast within a 12 hour period. For the first snowfall of the season, an advisory might be issued for snowfall less than 2 inches.

Wind: Wind speeds of 25-34 mph which may cause blowing snow

Sleet: Sleet accumulations of less than ½ inch.

Multiple precipitation types

For a Freezing Rain Advisory: Freezing rain that results in ice accumulations of less than ¼ inch.

COMMENT: Overall winter products: wish there was a way to blend watches/warnings/advisories with other offices. The boundaries between offices can look interesting with winter storms.

ACTION ITEM: We would like put together a list of the different watch/warning/advisory thresholds from our office and surrounding offices so our users understand why these boundaries sometimes exist. Many times, the different criteria are based on needs within a NWS office's county warning area. We will work on adding this to our website.

DENSE FOG ADVISORY

COMMENT: *There are many times when dense fog occurs and no advisory/Many times there is no fog when issued and other times there is dense fog and no warning.*

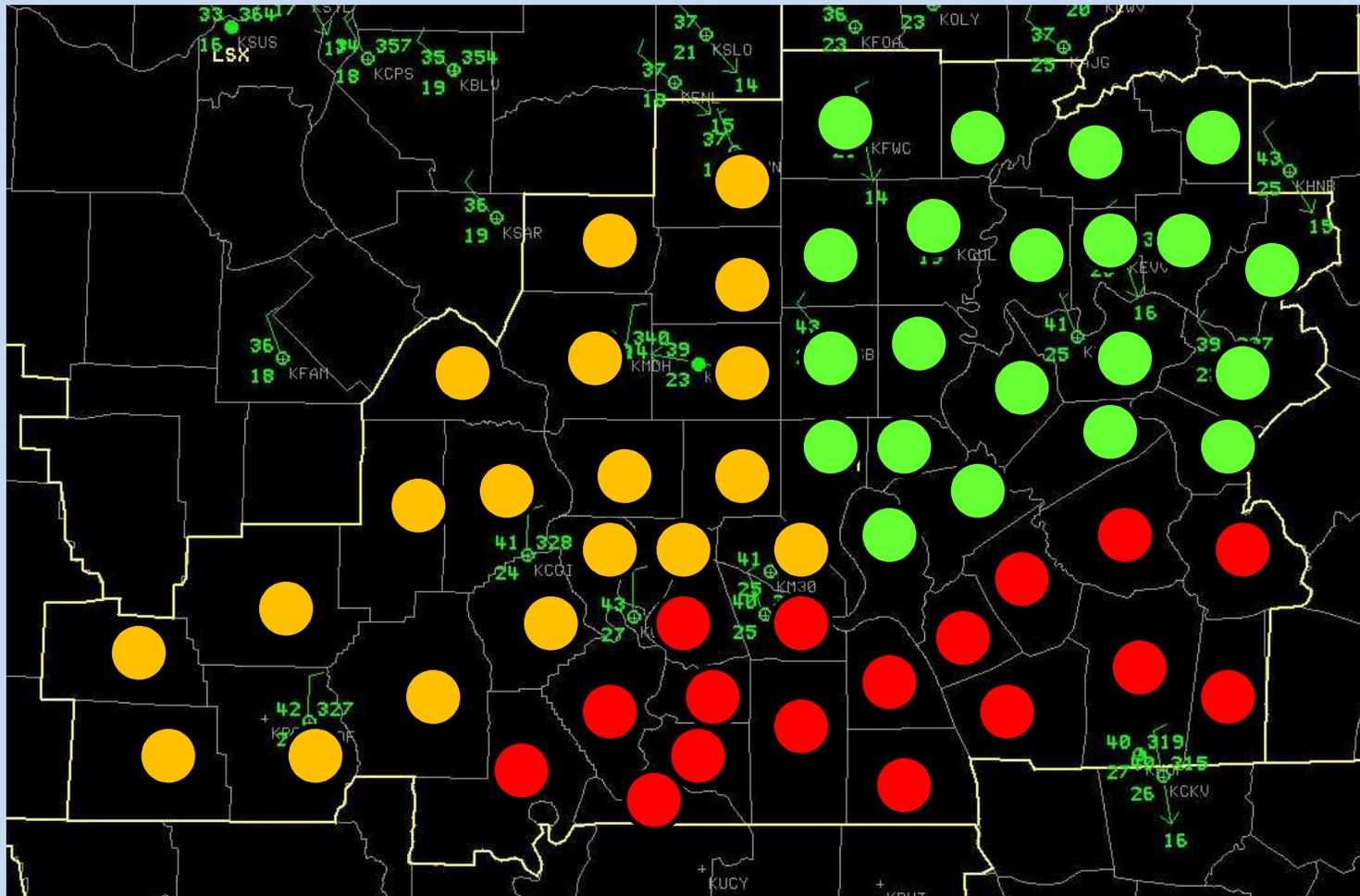
ACTION ITEM:

- Many times the visibilities vary greatly with fog.
- In this case, we would issue a special weather statement or short term forecast.
- For an advisory to be issued, visibilities need to be a $\frac{1}{4}$ mile or less over a widespread area (i.e. several counties).
- Forecasters sometimes have a problem knowing the extent of the fog, due to the lack of observing stations across our region.
- We might look into the idea of having our trained spotters call in with reports of dense fog to assist us.

FREEZE WARNING/FROST ADVISORY

COMMENT: This product should be reissued as conditions reoccur. This product only needed for the first frost.

ACTION ITEM: Education: The current guidelines are based on coordination many agriculture centers. Current guidelines the NWS in Paducah uses is on the next slide. The three groups mentioned in the text refers to the map below (each colors represents a group):



Frost: The deposition of ice crystals directly on the surface of exposed objects. In the right conditions (clear skies, winds less than 6 mph) frost can occur when observed air temperatures are several degrees above freezing.

Freeze: When observed air temperatures fall to 32 F or lower.

Killing Freeze: When observed air temperatures fall to 30 F or lower for at least two consecutive hours.

Frost Advisory: Issued when frost is forecast to occur at 3 or more observation sites in either group 1, 2, or 3.

Freeze Warning: Issued when a freeze is expected to occur at 3 or more observation sites in either group 1, 2, or 3.

Frost advisories and freeze warnings are issued as needed during the growing season.

Spring Start-Up Date for Frost/Freeze Program:

1) Beginning in March, we initiate weekly contact with UK Agricultural Weather Center and County Extension Agents to determine if the frost/freeze program should begin. 2) Begin the frost/freeze program no later than April 10.

Fall End Date for Frost/Freeze Program:

1) End the frost/freeze program for each group once a widespread killing freeze has occurred in that group.
2) Prior to November 1, the frost/freeze program may be restarted if there has been a lengthy period of unusually warm weather following the first killing freeze. This restart of the program should be coordinated with the UK Agricultural Weather Center and County Extension Agents. The frost/freeze program can only be restarted for frosts/freezes that occur prior to November 1.
3) The frost/freeze program will continue past November 1 only in those years when there has not been a widespread killing freeze prior to this date. In this situation the program will end for each group once a widespread killing freeze has occurred in that group.

"Widespread" is defined as a majority of observation sites within a given group (1,2,or 3).

HEAT ADVISORY/EXCESSIVE HEAT WARNING

•COMMENTS:

- I think the criteria for a heat advisory are too high, should be issued at 95-100 degrees.
- I think the criteria are too high for an excessive heat warning; it should be issued for any temperatures 100 degrees or higher.
- I think the heat index needed for the excessive heat warning should be lowered.

ACTION ITEM: NWS Central Region Headquarters has recently reevaluated the heat advisory and excessive heat warning criteria. They attempted to make criteria that could be used across a number of NWS offices, from the northern plains to the central plains, eastward into the mid Mississippi and lower Ohio Valley. This is the criteria that is now in place:

A Heat Advisory is issued:

- When the heat index value is around 105 degrees*
- Per forecaster discretion, if a prolonged period of heat index values of 100-105 degrees are forecast.*
- In addition, if heat advisory criteria are expected for 4 consecutive days or more, we will consider issuing an excessive heat warning.*

An Excessive Heat Warning is issued:

- When the heat index value is around 110 degrees*

In addition, we highlight heat indices in the forecast when they are expected to reach 100.

NOAA WEATHER RADIO CONCERNS:

COMMENT: *It's almost too much, wish information could be condensed into fewer products.*

ACTION ITEM: We are always striving to streamline the NOAA Weather Radio content in order to make it easier to listen to. The NOAA Weather Radio is normally monitored for content and length. We will work to simplify the products and make the broadcast more organized.

COMMENT: *Make information easier to understand.*

ACTION ITEM: We assume that this comment was based on the fact that some words are not well understood due to the computerized voices that NOAA Weather Radio uses. When the new voices were implemented, a local dictionary was created. However, it would be impossible for us to catch all mispronounced words and places. We strongly encourage our NOAA Weather Radio listeners to email or call our office with any specific words that are not well pronounced. We can then aim to correct the word(s).

NOAA WEATHER RADIO CONCERNS:

COMMENT: Would like hourly river stages from 4am-6am for waterfowl hunters during the winter.

ACTION ITEM: Unless there are major rises/falls, the river should not change too much from the readings from the day before. If possible, before you head out, check out the AHPS (Advanced Hydrologic Prediction Service) webpage (found on the left hand side menu under the Rivers/Hydrology section) for the latest stages on the river you are concerned with. In order to keep the broadcast as short as possible, we try not to add any additional products, especially in the morning.

The screenshot shows the NOAA Advanced Hydrologic Prediction Service (AHPS) website. The header includes the NOAA logo and the text "National Weather Service Advanced Hydrologic Prediction Service". The main navigation bar has "Home", "News", "Organization", and "Search for:". Below this, there are sections for "Local weather forecast by 'City, ST'", "Adjacent Areas:" with a map navigation tool, and a sidebar with "National Conditions" (Rivers, Satellite, Climate, Observed Precip) and "Local Conditions" (Warnings, Weather Forecast, Radar - Paducah, Radar - Evansville, Radar - Hopkinsville). The main content area features a map of the Ohio River basin with various gauges marked. A "River Menus" section at the bottom lists several rivers: Mississippi River, Current River, Black River, St. Francis River, Big Muddy River, Skillet Fork River, Little Wabash River, Wabash River, Patoka River, Green River, Ohio River, and others. There are also checkboxes for "Topo", "Gauges", "Counties", "States", "Major Rivers", "Other Rivers", "Highways", "Cities", "HSA", and "Names".



NOAA WEATHER RADIO CONCERNS:

COMMENT: *Would like conditions for Hopkinsville, KY instead of Clarksville, TN.*

ACTION ITEM: We are in the process of working on adding the observation from Hopkinsville to our hourly weather system. The automated observation station data became available to us in late 2008.

COMMENT: *Broadcast major traffic problems, highway or interstate closures and route locations.*

ACTION ITEM: We would do this if requested by the local emergency manager through the Civil Emergency Message (CEM) product if life threatening. Sometimes, road closures and traffic problems due to weather are relayed through our Local Storm Reports. We may add road condition phone numbers to the broadcast during certain weather scenarios.

COMMENT: *Broadcast more detailed radar information during storms. (meso, tvs, hail)*

ACTION ITEM: Current policy dictates that we are not allowed to include this type of detailed radar information in any of our products. However, any hail information will broadcast via the warnings, special weather statements and short term forecasts.

NOAA WEATHER RADIO CONCERNS:

COMMENT: We need aviation outlook.

ACTION ITEM: Existing NWS NOAA Weather Radio policy prohibits the broadcast of any aviation information on NOAA Weather Radio.

Please refer to the aviation section of our Area Forecast Discussion for the aviation discussion. The following website will allow you to view an aviation discussion from any NWS office across the country:

<http://aviationweather.gov/testbed/afd/>

Simply click on the NWS office you need and the aviation discussion will pop up below the map.



NOAA's National Weather Service
Aviation Weather Center

Home News Organization

Local forecast by "City, St" or Zip Code
City, St

Advisories
SIGMET/AIRMET »
Center Weather

Forecasts
Convection »
Turbulence
Icing
Winds/Temps »
Prog Charts »
TAF / FA »

Observations
PIREPs »
METARs »
Radar »
Satellite »

Java Tools »

Related Information
Home »
Flight Folder
Standard Briefing
Aviation Testbed
Aviation Links

Contact Us
FAQ
Feedback »
Site Information »

AWC Home > Testbed > Aviation Forecast Discussion

Aviation Forecast Discussion FYI/Help

(EXTRACTED FROM FXUS63 KPAH 010013)
NATIONAL WEATHER SERVICE PADUCAH KY
713 PM CDT FRI OCT 31 2008
FOR THE 00Z TAFS. VFR CONDITIONS EXPECTED TONIGHT AND SATURDAY.
UPPER LOW MOVING SOUTH ACROSS SOUTHERN MISSOURI AND NORTHERN
ARKANSAS MAY YIELD OCNL HIGH CLOUDS...AND SOME FEW-SCT 6-8K FT
CLOUDS AT TIMES TONIGHT. WINDS WILL CONTINUE TO BE LIGHT FROM THE
SOUTH...NEAR CALM AT TIMES TONIGHT.

USA.gov
Department of State

NOAA WEATHER RADIO CONCERNS:

COMMENT: *We need more on air quality*

We are going to work on creating an Air Quality Index and Air Quality Alert product for the Evansville area. In the interim, please see our Emergency Manager page

(<http://www.crh.noaa.gov/pah/?n=empage>), which has a couple of links to air quality information.

COMMENT: *Less river and lake stages.*

ACTION ITEM: Education: We have already condensed the river products quite a bit from what they have been in the past. River stages and forecasts are now tailored per transmitter and are no longer scheduled to play every radio cycle. The longest river product is probably a minute and a half. During times the rivers are in flood, the river flood warnings can be streamlined considerably.

NOAA WEATHER RADIO CONCERNS:

COMMENT: *Would like a more in depth weather summary.*

ACTION ITEM: We try to keep the regional weather summary as a brief rundown of the weather features that will control our weather for the next several days. It is meant to be a simple, easy to understand summary. Your best bet for more detailed information is the area forecast discussion. We are going to propose a late morning and early evening update to the weather summary.

COMMENT: *Need Fire danger/High or extreme wildfire risk.*

ACTION ITEM: At this time, our fire weather products are geared toward the fire weather community (namely the forestry service). The Red Flag Warning is issued only when distinct criteria is met, which was developed in part with the forestry service. Due to the fact that the Red Flag Warning is intended for the forestry service, it is not broadcast on NOAA Weather Radio. Typically, if a Red Flag Warning is in effect, a mention of fire danger will be included in the Hazardous Weather Outlook, which is broadcast on NOAA Weather Radio.

COMMENT: *During evacuation, broadcast where to go, what shelter etc...*

ACTION ITEM: These decisions are made at the county level. If specific information on shelters is available from the Emergency Manager and brief in nature, we will broadcast it. Always contact your local emergency management agency for more detailed information, or listen to local media.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: *Broadcast climate data for Cape Girardeau.*

ACTION ITEM: The end of the day climate is broadcast on the NOAA Weather Radio but not the intermediate climate run that is produced around 430 pm. We will work toward making the 430pm Cape Girardeau climate available on the NOAA Weather Radio.

COMMENT: *The links are down quite often.*

ACTION ITEM: Unfortunately, this problem can only be handled by our Central Region Headquarters, as they are responsible for the status of our websites. However, we will make this complaint known to them in hopes that this will happen less frequently.

NWS PADUCAH WEBSITE CONCERNS:

COMMENTS:

- *There is great deal of information, finding the time to navigate through to find what I need takes time.*
- *For the most part, some things are tricky to find*
- *Not intuitive, hard to navigate – trouble understanding what certain things mean*
- *A little difficult – I am too old for the computer*
- *Not really sure if it is easy to navigate*
- *Some products are easy to find, others very hard to locate*
- *There is so much info, sometimes it's hard to find exactly what you're looking for, but it's good.*
- *Can't find anything I would like to go to fast*
- *I feel there is enough, but wish I understood better how to utilize information*

ACTION ITEM: We understand our website can be a little tricky to navigate at times. The home page was designed with efficiency and simplicity in mind, in order to provide quick and easy access to the current forecast for our area, including current weather and any watches/warnings and advisories. The web site contains a wealth of information and is broken up into a number of major sections; each of which is contained in the blue navigation bar on the left hand side of the screen. We invite you to take some time and go through the links to see what type of information is available. We are going to look at ways to make our website easier to navigate based on your feedback. We may try to create a tutorial in the future.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: The font could be bigger

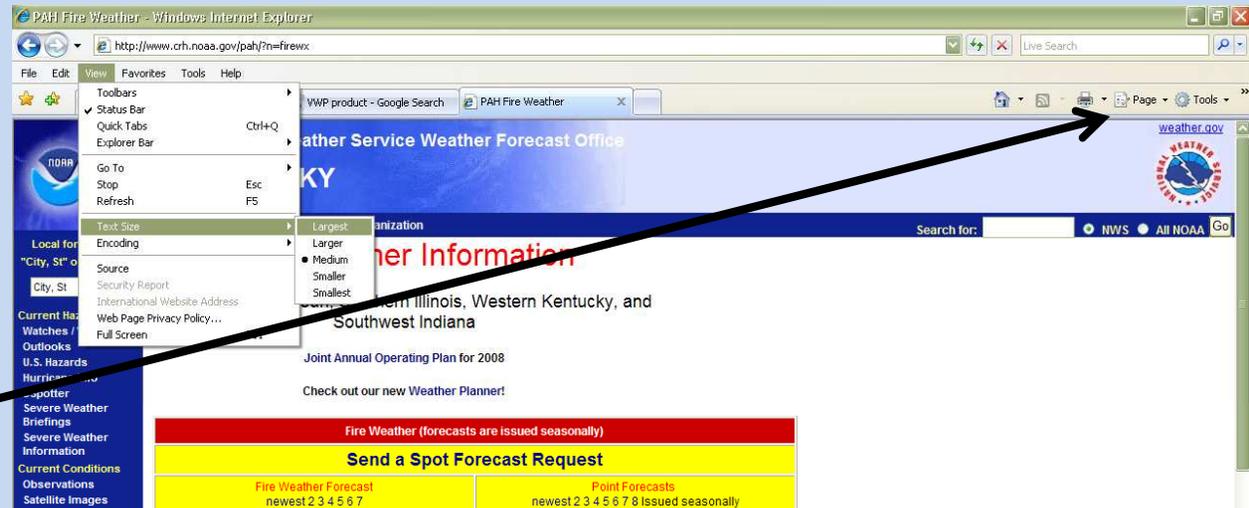
ACTION ITEM: We will look for opportunities to increase the fonts where we can. In the meantime, there are two ways to make the items on the webpage larger.

Internet Explorer 7.0

1) If you have your "Menu Bar" on top, choose VIEW and then TEXT SIZE and choose the size you want.

---OR---

You can also go to PAGE, then choose TEXT SIZE and choose the size you want.



2) At the bottom right hand corner of the page, you will see a magnifying glass with an arrow. Click on the arrow and choose the percentage to zoom.

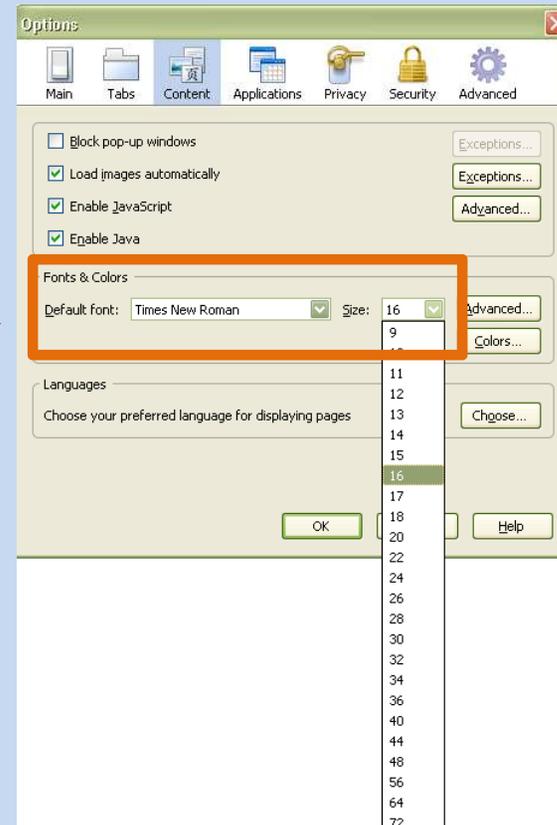
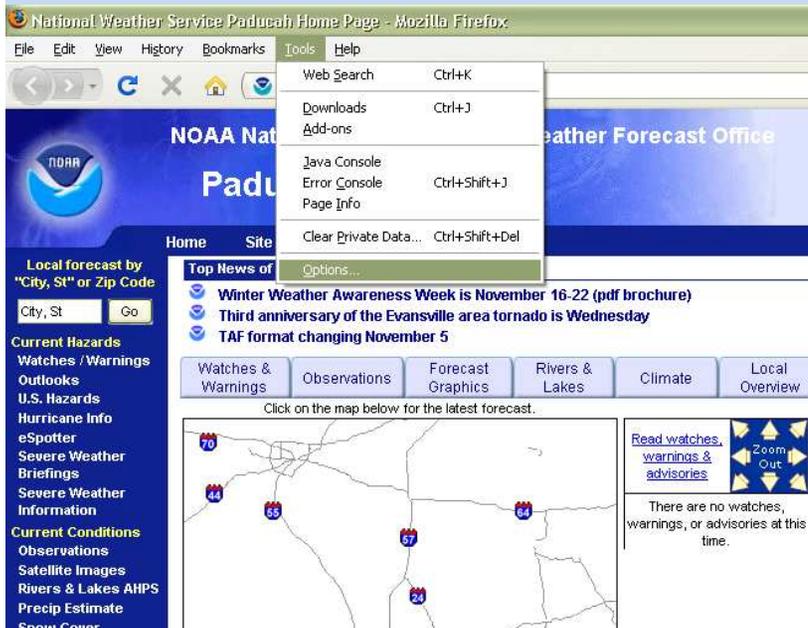


NWS PADUCAH WEBSITE CONCERNS:

For Mozilla Firefox:

1) To zoom, go to VIEW on the top bar, and choose ZOOM and then ZOOM IN or ZOOM OUT, or even ZOOM TEXT ONLY.

2) Changing the text size takes a few extra steps: Go to TOOLS on the top bar and choose OPTIONS. Once in the options menu, go to CONTENT. Then go down to Fonts & Colors and change your font size.



NWS PADUCAH WEBSITE CONCERNS:

COMMENT: *Need easier to understand buttons*

ACTION ITEM: There are likely certain buttons and links that could be renamed to make information easier to access. We are going to propose several changes to the buttons to our Central Region Headquarters. Hopefully we will be able to make several changes to make our website easier to navigate.

COMMENT: *Use daily, so very familiar with daily products. I find myself fumbling for storm reports during outbreaks.*

ACTION ITEM: Nearly all of our products are available on a one stop shopping type of webpage called TEXT PRODUCTS, which is accessed from the left hand side menu. We are going to create a local web team here at the Paducah NWS, who will take a good hard look at our website, and brainstorm ways to make our website better. We will take the ideas to our regional headquarters for review and hopeful implementation.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: Sometimes the most important information (warnings, watches) is mixed with less important information.

ACTION ITEM: If this comment is in regards to the map on the home page, as far as we know, this comment has already been sent up to Central Region Headquarters and even up to NWS National Headquarters.

What we do know is that they do not plan on changing the current map. We will express the need for improved maps that can be better with regards to handling the numerous types of warnings, watches and advisories.

NOAA's National Weather Service Weather Forecast Office
Paducah, KY

Home Site Map News Organization

Local forecast by "City, St" or Zip Code
City, St Go

Current Hazards
Watches / Warnings
Outlooks
U.S. Hazards
Hurricane Info
eSpotter
Severe Weather Briefings
Severe Weather Information

Current Conditions
Observations
Satellite Images
Rivers & Lakes AHPS
Precip Estimate
Snow Cover
CoCoRaHS Summary

Radar Imagery
Local Radar
Nationwide
Evansville
Hopkinsville

Forecasts
Activity Planner
Local Area
Aviation
Fire Weather
Graphical
Text Products
Audio Products

Rivers / Hydrology
AHPS / River Info

Top News of the Day

- One inch hail initiative
- Four Rivers Severe Weather Symposium March 21
- New Quad State Outlook gives more information
- Additional News Headlines

Watches & Warnings Observations Forecast Graphics Rivers & Lakes Climate Local Overview

Click on the map below for the latest forecast.

Last map update: Sun, Mar. 8, 2009 at 11:15:58 am CDT

Weather Story Radar Satellite Weather Map

FORECAST-AT-A-GLANCE

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: Easier to access watch and warning information and related details.

ACTION ITEM: The easiest way to access our watch and warning information is by clicking on the **WATCHES/WARNINGS** link or tab on our homepage.

NOAA's National Weather Service Weather Forecast Office
Paducah, KY

Home Site Map News Organization

Local forecast by "City, St" or Zip Code
City, St

Current Hazards
Watches / Warnings

Outlooks
U.S. Hazards
Hurricane Info
eSpotter
Severe Weather Briefings
Severe Weather Information

Current Conditions
Observations
Satellite Images
Rivers & Lakes AHPS
Precip Estimate
Snow Cover
CoCoRaHS Summary

Radar Imagery
Local Radar
Nationwide
Evansville
Hopkinsville

Forecasts
Activity Planner

Top News of the Day

- Storm Survey Teams findings from March 8th Storms
- One inch hail initiative - Starts April 1st
- Four Rivers Severe Weather Symposium March 21
- Additional News Headlines

Watches & Warnings

Click on the map below for the latest forecast.

Read watches, warnings & advisories

Flood Warning
Winter Weather Advisory
Winter Storm Watch
Special Weather Statement
Hazardous Weather Outlook
Short Term Forecast

Last map update: Wed, Mar. 11, 2009 at 11:08:43 am CDT

National Weather Service Paducah, KY
Severe Weather Summary Page

Home Site Map News Organization

Watches, Warnings, Advisories (Click to zoom)

Read watches, warnings & advisories

Legend:

- Flood Warning
- Winter Weather Advisory
- Winter Storm Watch
- Special Weather Statement
- Hazardous Weather Outlook
- Short Term Forecast

Radars and Satellite (Click for larger image)

Tornado Warning(s)
None

Severe Thunderstorm Warning(s)
None

Flash Flood Warning(s)
None

Last map update: Wed, Mar. 11, 2009 at 11:08:43 am CDT

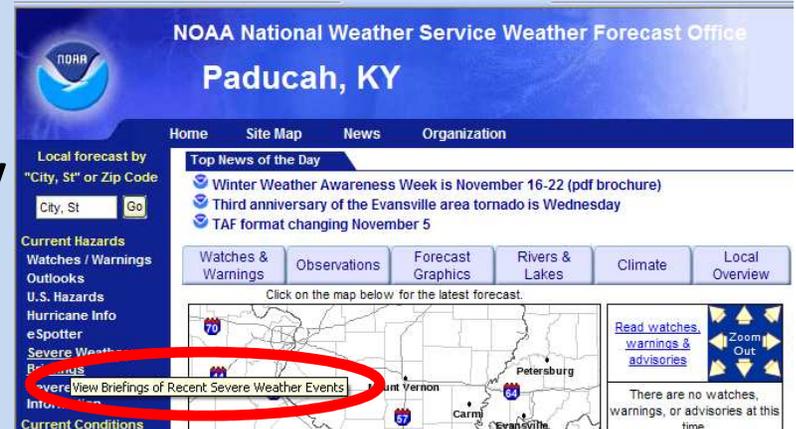
Local Links		Region - National	
Hazardous Weather Outlook	Local Storm Reports	Convective Outlooks	Mesoscale Discussions
Rivers & Lakes (AHPS)	E-Spotter	Current Watches	Storm Reports
Office Home		Excessive Rainfall	Flood Outlook
		U.S. Hazards	Weather Safety
Quantitative Precipitation Forecasts (QPF)			

On this Severe Weather Summary Page, you can view all the warnings, watches and other information such as local storm reports and E-Spotter.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: Scroll over information for explanation each link.

ACTION ITEM: Education: This capability is already available for all the links on the left hand side of our homepage. We can possibly work on detailing a few of the links for a better explanation.



COMMENT: Sometimes the page is missing information and you have to scroll down to see it.

ACTION ITEM: Sometimes all you have to do is hit the REFRESH or RELOAD button and everything is back to normal. This sometimes happens when one of the servers is not performing as it should.

COMMENT: The radar image has too much ground clutter that you can't see what's actually precipitation.

ACTION ITEM: We attempt to declutter the radar whenever we can. However, there are times that even the highest clutter suppression does not help. Computer programs are being written to automatically remove ground clutter and should be deployed this year.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: *Would like warnings and watches stand out more and correct links to the information.*

ACTION ITEM: This is not the first time this type of comment has been brought to our attention (Watches and Warnings to stand out more). This comment has already been sent up to Central Region Headquarters and even up to NWS National Headquarters. What we do know is that they do not plan on changing the current map. We will express the need for improved maps that can be better with regards to handling the numerous types of warnings, watches and advisories. As far as correct links, we are not aware of any dead or incorrect links. Please email our webmaster (w-pah.webmaster@noaa.gov) with that information so we can correct it.

COMMENT: *Maybe add a NWS Paducah search function.*

ACTION ITEM: We will suggest this to the NWS National Web Team.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: We would like to have the standard radar view auto refresh.

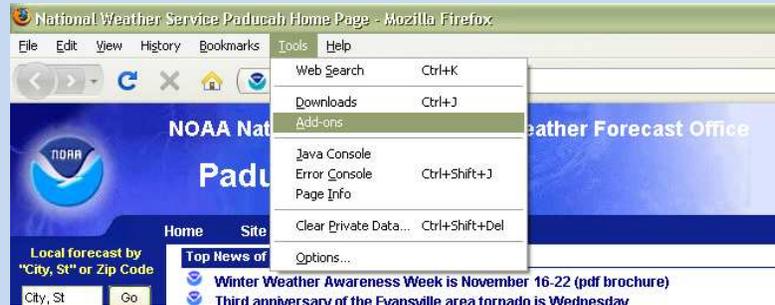
ACTION ITEM: Unfortunately, the standard radar view does not auto refresh, but we will raise your concern to Central Region Headquarters. The only radar view that will auto refresh is the *enhanced version* with the *loop* function on. See the image to the right. Remember, when you click the radar link off of our homepage, it automatically takes you to the Enhanced Version. To switch to the Standard Version (for dial up users), click on Go To: Standard Version above the radar.

However, most internet browsers have the capability to utilize add ons. For internet explorer, please search for a third party software add ons for auto refresh, since this type of feature is not available within Internet Explorer. For Mozilla Firefox users, adding an add on is fairly easy. We'll take a look at how to do this on the next slide.

The screenshot shows the NWS Paducah, KY Radar website interface. The page title is "National Weather Service Enhanced Radar Image Loop Paducah, KY Radar". The main content area displays a radar map of the Paducah, KY area, showing reflectivity data. The "AutoUpdate is Off" button is circled in orange. The "Go To: Standard Version" link is visible above the radar map. The interface includes a navigation menu on the left with options like "Short Range Images", "Velocity", "Rainfall", "Long Range Images", and "U.S. Views". The bottom of the page features a control panel with buttons for "Stop", "Rock", "Animation Speed", "AutoUpdate is Off", and "Refresh".

To make any webpage AUTO REFRESH in your Mozilla Firefox browser, you will need to add the ReloadEvery add on.

1) Go to **TOOLS** on the top bar and choose **Add-ons**.

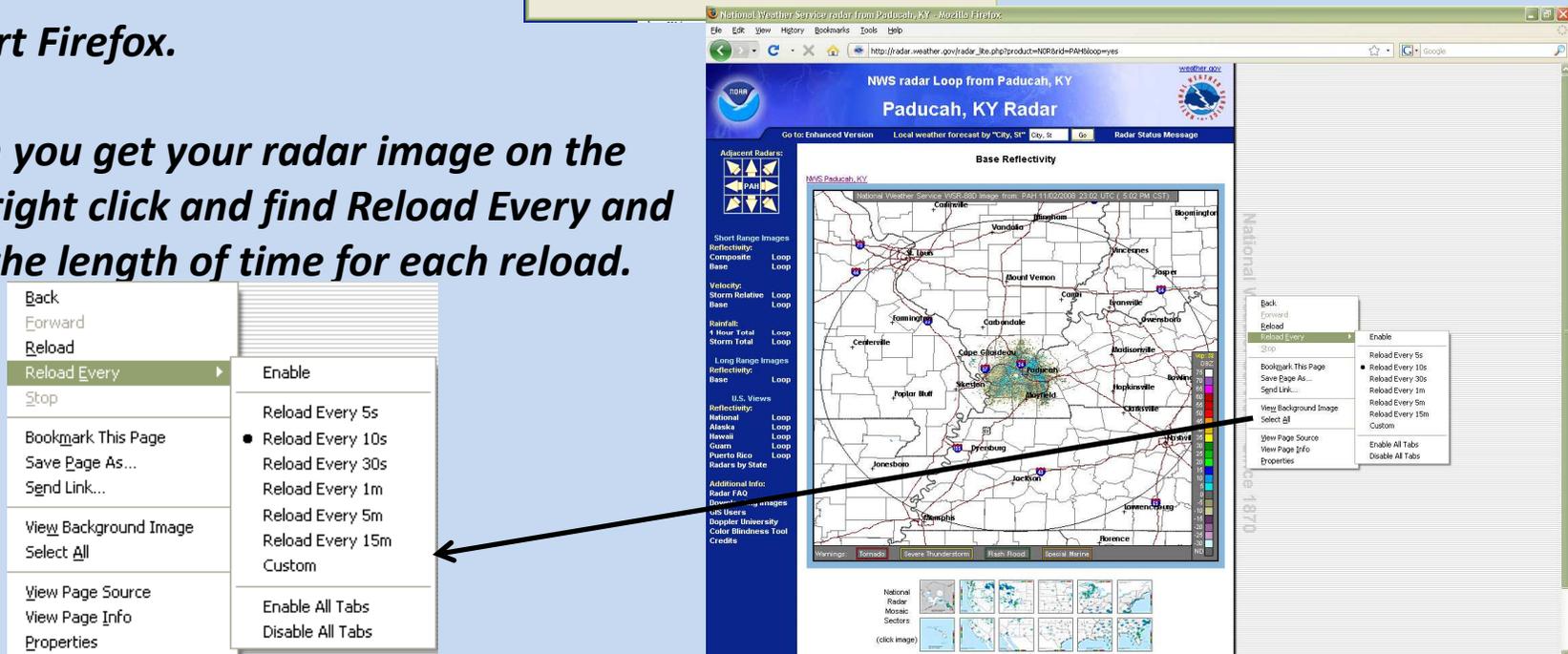


2) Type **ReloadEvery** into the search box and hit enter. The **ReloadEvery** add on should display. Click **Add To Firefox**. Then choose **Install Now**.



3) Restart Firefox.

4) When you get your radar image on the screen, right click and find **Reload Every** and choose the length of time for each reload.



NWS PADUCAH WEBSITE CONCERNS:

COMMENT: Need one click to get latest IR/visible satellite.

ACTION ITEM: We already have a link to satellite data on the left hand side menu on our homepage.

NOAA National Weather Service Weather Forecast Office
Paducah, KY

Home Site Map News Organization

Local forecast by "City, St" or Zip Code
City, St Go

Current Hazards
Watches / Warnings
Outlooks
U.S. Hazards
Hurricane Info
eSpotter
Severe Weather Briefings
Severe Weather Information

Current Conditions
Observations
Satellite Images
Rivers & Lakes AHPs
Precip Estimate
Snow Cover
CoCoRaHS Summary

Radar Imagery
Local Radar
Nationwide
Evansville
Hopkinsville

Forecasts
Activity Planner
Local Area
Aviation
Fire Weather Graphical
Text Products
Audio Products

Rivers / Hydrology
AHPs / River Info
River Forecasts
Current Stages

Climate
Local
National
More...

Weather Safety
StormReady
Weather Radio
EMWIN
SKYWARN spotters
Local Information

Top News of the Day

- Winter Weather Awareness Week is November 16-22 (pdf brochure)
- Third anniversary of the Evansville area tornado is Wednesday
- TAF format changing November 5

Watches & Warnings Observations Forecast Graphics Rivers & Lakes Climate Local Overview

Click on the map below for the latest forecast.

Read watches, warnings & advisories Zoom Out

There are no watches, warnings, or advisories at this time.

Weather Story Radar Satellite Weather Map

Last map update: Sun, Nov. 2, 2008 at 5:21:45 pm CST

FORECAST-AT-A-GLANCE

PADUCAH

Tonight	Monday	Monday Night	Tuesday	Tuesday Night
Mostly Clear	Sunny	Mostly Clear	Sunny	Mostly Clear
Lo 47°F	Hi 74°F	Lo 46°F	Hi 74°F	Lo 50°F

EVANSVILLE

Tonight	Monday	Monday Night	Tuesday	Tuesday Night
Mostly Clear	Sunny	Mostly Clear	Sunny	Mostly Clear
Lo 47°F	Hi 74°F	Lo 46°F	Hi 74°F	Lo 50°F

TODAY'S QUAD STATE OUTLOOK

Thunderstorms	<input type="checkbox"/>
Hail	<input type="checkbox"/>
Strong Winds	<input type="checkbox"/>
Heavy Rain	<input type="checkbox"/>
Lightning	<input type="checkbox"/>
Tornadoes	<input type="checkbox"/>

NOAA National Weather Service Weather Forecast Office
Paducah, KY

Home Site Map News Organization

Local forecast by "City, St" or Zip Code
City, St Go

Current Hazards
Watches / Warnings
Outlooks
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Severe Weather Briefings
Severe Weather Information

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Satellite Images
Rivers & Lakes AHPs
Precip Estimate
Snow Cover
CoCoRaHS Summary

Radar Imagery
Local Radar
Nationwide
Evansville
Hopkinsville

Forecasts
Activity Planner
Local Area
Aviation
Fire Weather Graphical
Text Products
Audio Products

Rivers / Hydrology
AHPs / River Info
River Forecasts
Current Stages

Climate
Local
National
More...

Weather Safety
StormReady
Weather Radio
EMWIN
SKYWARN spotters
Local Information

SATellite IMAGERY

- Color-Enhanced Infrared Satellite Image (Click image below for full size)

- Daytime Visible Satellite for Paducah/Evansville (Loops of visible and infrared images are also available at this site)
- Loop of visible satellite images
- Loop of infrared satellite images (no color enhancement)
- Infrared satellite image (no color enhancement)
- Loop of water vapor satellite images
- Water vapor satellite image

SPECIALIZED SATELLITE PRODUCTS

- NESDIS Flash Flood Home Page
- NESDIS

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: More wind data and MDH forecast (Aviation)

ACTION ITEM: A Carbondale, IL (MDH) aviation forecast is now in the works. As far as wind data, try out this website - <http://rucsoundings.noaa.gov/beta/>

This website allows you to generate upper air data (including wind data). Just choose your data source and type in KMDH for Carbondale, IL.

COMMENT: *Wish you could have the local news stories archived and more easily retrieved.*

ACTION ITEM: We are sure there is a way to do this. Once we are able to get the archive up and running, we will put a link in the Top News of the Day headlines. It will most likely become a permanent link on the left hand menu as well.

COMMENT: *Need annual summaries up to current year.*

ACTION ITEM: Software glitches prevented the summaries from 2005-2007 from being created. Starting with this year, yearly climate summaries and seasonal climate summaries will be available. There is now a new section on the TEXT PRODUCTS link, called Climate Data, where you can find the daily, monthly, annual, and seasonal climate products.

COMMENT: *Need ability to download weather information to Excel or Text format.*

ACTION ITEM: Check out this website for downloadable weather information:

<http://www.ncdc.noaa.gov/oa/climate/stationlocator.html>

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: *More frequent updates to the radar data.*

ACTION ITEM: Education: The radar is updated (usually) as quickly as the radar can produce the data and then send it to the web. There are times when the radar can be down for maintenance. Always try to hit your refresh/reload button to make sure you have the latest data. Clean out temporary internet files. Refer to the “ReloadEvery” Add On for Mozilla Firefox to automatically update the radar data. National Weather Service Headquarters is constantly adapting services to help with the demand. In the future, there are plans to upgrade radar systems to support faster updates.

COMMENT: *Radar should be interactive/should be able to be zoomed in and out and not become fuzzy. Need high quality zoom overlaid with maps of towns/roads etc, and storm tracking.*

ACTION ITEM: These types of requests are simply out of our hands and are up to the developer of the radar page. We will send your comment up to our Central Region Headquarters.

COMMENT: *More radar options (VILs etc)*

ACTION ITEM: Again, these types of requests would be best handled by our Central Region Headquarters. In addition, private companies and universities may have more detailed information such as VIL, etc. Below are two websites to visit to view VIL and Echo Top information for the Paducah, KY radar. We will look into adding these products to our website.

http://radar.weather.gov/ridge/lite/NVL/PAH_loop.gif

http://radar.weather.gov/ridge/lite/NET/PAH_loop.gif

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: GPS locator for map

ACTION ITEM: The only place you are able to get a cursor readout with GPS coordinates is by viewing the radar.

Adjacent Radars:

Short Range Images
Reflectivity: Loop
Composite Loop
Base Loop

Velocity:
Storm Relative Loop
Base Loop

Rainfall:
1-Hour Total Loop
Storm Total Loop

MouseOver Off

Long Range Images
Reflectivity:
Base Loop

U.S. Views
Reflectivity:
National Loop
Alaska Loop
Hawaii Loop
Guam Loop
Puerto Rico Loop
Radars by State

Additional Info:
Radar FAQ
Downloading Images
Mobile Users
GIS Users **KML**
Doppler University
Color Blindness Tool
Credits

Base Reflectivity

NWS Paducah, KY

National Weather Service WSR-86D Image from: PAH 01/11/2009 20:23 UTC (2:23 PM CST)

Range and Bearing Information (left click to select a location): How does this work?
Distance from Radar, Direction of selected location: 8 Mi East (95 Deg) Reset
Distance from Selected Location: 16 Mi Away South Southwest 213 Degrees
37.054 Deg Lat -88.623 Deg Lon 36.865 Latitude -88.786 Longitude

Range and Bearing, Distance and Latitude/Longitude

Located below the overlay toggles, range and bearing information provides you with an interactive tool to determine the distance and direction to an object. It is basically divided into two halves; "distance from radar" and "distance from selected location".

Distance from Radar - When the page first loads, the reference point for the "distance from radar" information will be located at the radar itself as indicated by the "0 mi North". The reference point's latitude and longitude are also indicated (negative degrees indicates WEST longitude).

Clicking anywhere on the radar image resets the reference point to the location selected. That new reference point's distance and direction are now given relative to the radar. Clicking RESET returns the reference point to the radar's location at the center of the image.

Distance from Selected Location - Using the mouse pointer, this is the distance (in miles) and direction (in whole degrees) from the selected reference point. As you move the mouse this information constantly updates. By default, the selected location is at the radar in the center of the image.

To determine your distance from a storm, you can either click on the storm and move your mouse over your location or select your location and move the mouse over the storm. The latitude and longitude are also indicated (negative degrees indicates WEST longitude).

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: *Local storm reports during winter storms or winter events.*

ACTION ITEM: Education: Local storm reports are routinely issued during winter weather events. Many times we will have a link on our homepage under the Top News of the Day section. Otherwise, choose TEXT PRODUCTS on the left hand menu to find the LSR (Local Storm Report). We hope that in the future, the Local Storm Report will simply be a link on the homepage.

COMMENT: Air quality info!

ACTION ITEM: The only air quality information we receive is from Evansville Indiana via the Vanderburgh County EPA on Ozone alerts. There are two air quality websites listed on our new EM Page. We hope to begin producing Air Quality Index and Air Quality Alert products for the Evansville, IN area in the near future.

<http://www.crh.noaa.gov/pah/?n=empage>

COMMENT: *More satellite imagery*

ACTION ITEM: Education: Please check out our newly created EM Page, which has a few different satellite links such as visible and infrared imagery.

<http://www.crh.noaa.gov/pah/?n=empage>

In addition, our web site's satellite link will be redone by June 1, 2009 to include more satellite imagery.

NWS PADUCAH WEBSITE CONCERNS:

COMMENT: *Lightning data*

ACTION ITEM: The lightning data the NWS uses is from National Lightning Detection Network operated by Vaisala. Since this is a private company, we cannot offer any real time data on our website. There is a SPC website that contains a loop of hourly lightning data on a national scale.

<http://www.spc.noaa.gov/obswx/outlook/>

Otherwise, we suggest you check out Viasala's website for more information on how you can obtain their data.

COMMENT: *Easier to access model data/Forecast models as a graphic out to 48 hrs (map form)*

ACTION ITEM: Our Model Data page contains a lot of useful model data in graphical form out to 48 hours and beyond. It can be accessed from the left hand menu or

<http://www.crh.noaa.gov/pah/?n=model> Additional websites with model data can be accessed from our Emergency Manager Page. <http://www.crh.noaa.gov/pah/?n=empage>

COMMENT: *If it doesn't already exist, a map of the area affected following storm events – examples areas affected by amount of ice build up, what areas sustained high winds etc.*

ACTION ITEM: We already provide tornado track maps, snowfall/ice accumulation maps, and other large events. However, creating maps of high wind events are a little more involved at times. We have added a link to our website that will provide a map with a plot all of our local storm reports, which would include high winds as well as real time warnings.

Real-Time Local Storms Summary

Severe Weather Reports for the Paducah Area

Local forecast by "City, ST" or zip code

- Current Hazards
- Watches/Warnings
- Outlooks
- Hazardous Weather Outlook**
- Briefing Page

This page displays storm reports received from the previous 72 hours along with warnings issued by this and surrounding offices. Storm reports are preliminary, and have not been verified for accuracy unless otherwise noted. If you are interested in becoming an official spotter for the NWS, contact your local NWS office. Move mouse over map to view report and warning information

Last Update: 03/11/2009 at 16:06 UTC

- Current Conditions
- Observations
- Satellite Images
- Rivers & Lakes

- AHPS
- Hydrology Page

- Radar Imagery
- Charleston Radar
- Nationwide

- Forecasts
- Weather Products
- Graphical Fcst
- Table

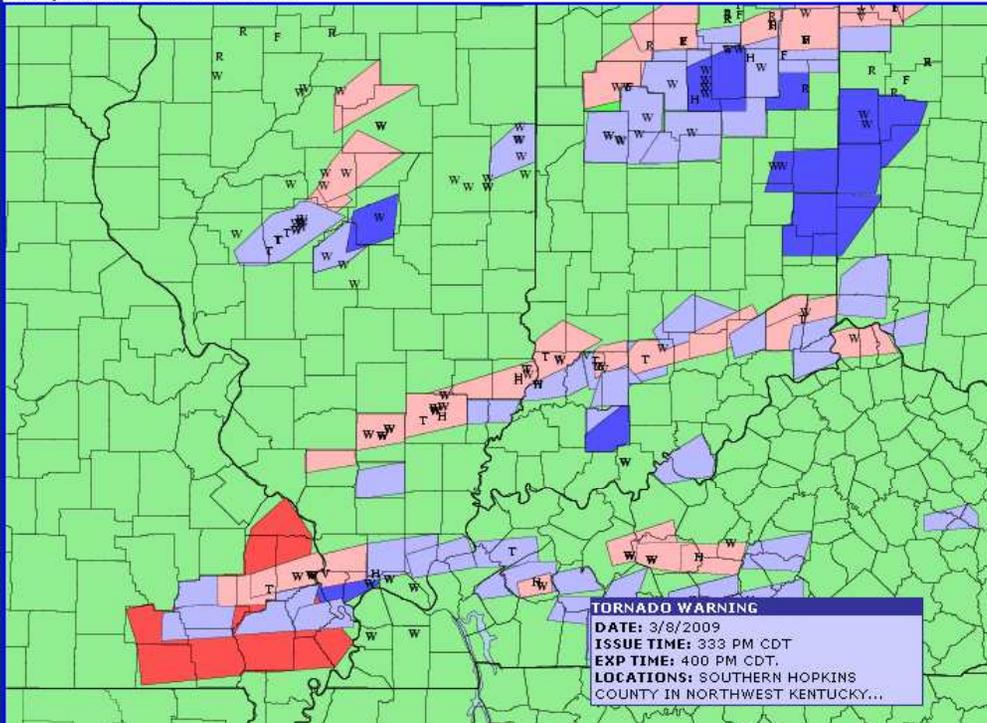
- Maps
- Hourly Graphical
- Fcst Maps

- Aviation
- Fire Weather
- Activity Planner
- Ohio River Basin

- Forecasts
- Long Range

- Climate
- Local
- National
- More...

- Weather Safety
- Flood Safety
- Storm Ready



Note: All data are considered preliminary

TORNADO REPORTS

Date	Time	Type	Location	County	State	Rec'd From	Comments
03/08/2009	1227 PM		3 S LEOPOLD	BOLLINGER	MO	EMERGENCY MNGR	CONFIRMED TOUCHDOWN 3 MILES SOUTH OF MARBLE HILL. TORNADO IS MOVING EAST...DAMAGE HAS BEEN REPORTED.
03/08/2009	1147 AM		CURRAN	SANGAMON	IL	LAW ENFORCEMENT	TORNADO REPORTED NEAR CURRAN BY SHERIFFS OFFICE RELAYED BY DISTRICT 9.
03/08/2009	1141 AM		1 N LOAMI	SANGAMON	IL	FIRE DEPT/RESCUE	PUBLIC REPORT OF A TORNADO AT INTERSECTION OF LOAMI ROAD AND MASON ROAD VERIFIED BY NEW BERLIN FIRE DEPARTMENT.
03/08/2009	1141 AM		CURRAN	SANGAMON	IL	EMERGENCY	REPORTS OF RESIDENTIAL DAMAGE AND MINOR INJURIES

Here is what the new Local Storm Report Summary Map will look like.

On the next slide, we will show you were you can find this map on our website.

In the future, we hope to have the map in a more visible location on the website.

NOAA's National Weather Service Weather Forecast Office
Paducah, KY

Home Site Map News Organization Search for: [] NWS All NOAA Go

Local forecast by City, State or Zip Code
City, St [] [] Go

Current Hazards
 Watches / Warnings
 Outlooks
 U.S. Hazards
 Hurricane Info
 e-Alerts
 Severe Weather Briefings
 Severe Weather Information
 Current Conditions
 Observations
 Satellite Images
 Rivers & Lakes Alerts
 Precip Estimates
 Snow Cover
 Categorical Summary
 Radar Imagery
 Local Radar
 Rotorwinds
 Evansville
 Hopkinsville
 Forecasts
 Activity Planner
 Local Area
 Aviation
 Fire Weather
 Graphical
 Text Products
 Audio Products
 Rivers: Hydrology
 AHS-1 River Info
 River Forecasts
 Current Stages
 Climate
 Local
 National
 More...

Weather Safety
 StormReady
 Weather Radio
 10min
 SKYWARN spotters

Local Information
 Our Office
 Coop Observer
 Service Guide
 Our Western Area
 Customer Service
 Workshop/Holiday
 Emergency Manager
 Page

Education/Training
 Science/Research
 Weather Education
 Past Weather Events
 125 T1-State
 Terrestrial
 1982 Monro Toronto
 1957 Carter County
 MO Terrestrial
 Model data

Contact Us
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Top News of the Day
 Storm Survey Teams Findings from March 8th Storms
 One Inch Ice Initiative Starts April 1st
 Four Rivers Severe Weather Symposium March 21

Additional News Headlines

Watches & Warnings Observations Forecast Graphics Rivers & Lakes Climate Local Overview

Click on the map below for the latest forecast.

Read statistics, forecasts & messages
 Read Alerts
 Hazardous Weather Outlook
 Short Term Forecast

Last map update: Tue, Mar 10, 2009 at 4:13:55 pm CDT

Weather Story Radar Satellite Weather Map

FORECAST AT A GLANCE

PADUCAH
 Late Afternoon Tonight Wednesday Wednesday Thursday Thursday Night
 Slight Clc Tdms Partly Sunny Partly Cloudy Partly Sunny Partly Cloudy
 Hi 73 °F Lo 58 °F Hi 60 °F Hi 60 °F Hi 60 °F Lo 28 °F

EVANSVILLE
 Late Afternoon Tonight Wednesday Wednesday Thursday Thursday Night
 Slight Clc Tdms Partly Sunny Partly Cloudy Partly Sunny Partly Cloudy
 Hi 73 °F Lo 58 °F Hi 60 °F Hi 60 °F Hi 60 °F Lo 28 °F

HOPEWELL
 Late Afternoon Tonight Wednesday Wednesday Thursday Thursday Night
 Slight Clc Tdms Partly Sunny Partly Cloudy Partly Sunny Partly Cloudy
 Hi 73 °F Lo 58 °F Hi 60 °F Hi 60 °F Hi 60 °F Lo 28 °F

Current Conditions

LOCATION	TIME	WEATHER	TEMP	DEWPT	HUMIDITY	WIND	PRESSURE
Cape Girardeau, MO	14:53	Overcast and Breezy	74°F	60°F	62%	SW 21 @ 31 mph	29.83 in
Carbondale, IL	14:52	Mostly Cloudy and Breezy	74°F	60°F	62%	S 21 @ 29 mph	29.81 in
Evansville, IN	14:54	Overcast and Breezy	70°F	57°F	64%	S 22 @ 30 mph	29.80 in
Mount Carmel, IL	14:46	Overcast and Breezy	73°F	59°F	61%	SW 23 @ 30 mph	29.80 in
Mount Vernon, IL	14:55	Overcast	72°F	59°F	65%	S 18 @ 22 mph	29.82 in
Owensboro, KY	14:55	Overcast	70°F	58°F	66%	SW 19 @ 20 mph	29.87 in
Paducah, KY	14:55	Overcast and Breezy	70°F	59°F	66%	SW 24 @ 32 mph	29.80 in
Poplar Bluff, MO	14:55	Overcast and Breezy	73°F	62°F	66%	SW 21 @ 28 mph	29.85 in

CLICK ON LOCATION FOR THREE DAYS OF OBSERVATIONS

CLIMATE
 YESTERDAY'S CLIMATE STATISTICS

	PADUCAH	EVANSVILLE
OBSERVED	HIGH: 68°F at 4:23PM LOW: 41°F at 7:05AM	HIGH: 61°F at 5:31PM LOW: 36°F at 5:06AM
NORMAL	HIGH: 56°F LOW: 35°F	HIGH: 54°F LOW: 33°F
LAST YEAR	HIGH: 51°F LOW: 27°F	HIGH: 47°F LOW: 24°F
RECORDS	HIGH: 78°F in 1974 LOW: 10°F in 1943	HIGH: 80°F in 1925 LOW: 10°F in 1932
PRECIP	T" YESTERDAY 0.70" MONTH TO DATE	0.00" YESTERDAY 0.03" MONTH TO DATE
SUNRISE & SUNSET	MARCH 10 SUNRISE: 7:13AM SUNSET: 6:58PM MARCH 11 SUNRISE: 7:12AM SUNSET: 6:59PM	MARCH 10 SUNRISE: 7:09 SUNSET: 6:53PM MARCH 11 SUNRISE: 7:07AM SUNSET: 6:54PM

QUICKLINKS

WEATHER	CLIMATE	RIVERS
SEVERE WEATHER INFORMATION HAZARDOUS WEATHER OUTLOOK REGIONAL WEATHER SUMMARY STORM REPORT GRAPHIC SEVERE WEATHER BRIEFS E-SPOTTER	PAST WEATHER EVENTS PAST 24 HOURS LOCAL NATIONAL	OBSERVED RIVER STAGES FORECAST RIVER STAGES RIVER INFORMATION

USA.gov

Paducah, KY Weather Forecast Office
 8250 Kentucky Highway 3520
 West Paducah, KY 42086-9762
 270-744-6440
 Page Author: PAH Webmaster
 Web Master's E-mail: w-pah.webmaster@noaa.gov
 Page last modified: 13-Jul-2007 9:52 PM UTC

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Where can I find this map?

CLIMATE		
YESTERDAY'S CLIMATE STATISTICS		
	PADUCAH	EVANSVILLE
OBSERVED	HIGH: 68°F at 4:23PM LOW: 41°F at 7:05AM	HIGH: 61°F at 5:31PM LOW: 36°F at 5:06AM
NORMAL	HIGH: 56°F LOW: 35°F	HIGH: 54°F LOW: 33°F
LAST YEAR	HIGH: 51°F LOW: 27°F	HIGH: 47°F LOW: 24°F
RECORDS	HIGH: 78°F in 1974 LOW: 10°F in 1943	HIGH: 80°F in 1925 LOW: 10°F in 1932
PRECIP	T" YESTERDAY 0.70" MONTH TO DATE	0.00" YESTERDAY 0.03" MONTH TO DATE
SUNRISE & SUNSET	MARCH 10 SUNRISE: 7:13AM SUNSET: 6:58PM MARCH 11 SUNRISE: 7:12AM SUNSET: 6:59PM	MARCH 10 SUNRISE: 7:09 SUNSET: 6:53PM MARCH 11 SUNRISE: 7:07AM SUNSET: 6:54PM

RADARS

PADUCAH RADAR	EVANSVILLE RADAR	HOPKINSVILLE RADAR
STANDARD ENHANCED	STANDARD ENHANCED	STANDARD ENHANCED

QUICKLINKS

WEATHER	CLIMATE	RIVERS
SEVERE WEATHER INFORMATION HAZARDOUS WEATHER OUTLOOK REGIONAL WEATHER SUMMARY STORM REPORT GRAPHIC SEVERE WEATHER BRIEFS E-SPOTTER	PAST WEATHER EVENTS PAST 24 HOURS LOCAL NATIONAL	OBSERVED RIVER STAGES FORECAST RIVER STAGES RIVER INFORMATION

NOAA's National Weather Service
 Paducah, KY Weather Forecast Office
 8250 Kentucky Highway 3520
 West Paducah, KY 42086-9762
 270-744-6440

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Page Author: PAH Webmaster
 Web Master's E-mail: w-pah.webmaster@noaa.gov
 Page last modified: 13-Jul-2007 9:52 PM UTC

NWS PADUCAH WARNINGS:

COMMENT: Add lightning to the criteria/Include dangerous lightning/Extreme cloud to ground lightning events – or need another product to address this.

ACTION ITEM: Every thunderstorm produces lightning. Therefore, we cannot add lightning as a criteria for issuing a severe thunderstorm warning. The presence of lightning alone does not justify the need for a warning. Some thunderstorms produce an immense amount of lightning. For these types of storms, we will highlight this heightened threat in a short term forecast or Special Weather Statement.

NWS PADUCAH WARNINGS:

COMMENTS ON CHANGING SEVERE THUNDERSTORM WARNING CRITERIA:

- Hail criteria needs to be changed; too many warnings come out for hail that is too small to be concerned with.
- Any less would probably double to triple the amount of warnings
- We have a lot of storm damage with winds less than 58 mph that do a lot of damage and are a threat to life.
- I am not a fan of the push to move warning criteria to 1 inch hail. I think the public will then increase size estimates to 1 inch to get warnings issued.
- I think an added advisory of thunderstorm advisory would be a good addition. Big difference between a warning for penny hail and one for 70 mph+ wind.

Effective April 1, 2009 the hail criteria will change from $\frac{3}{4}$ inch to 1 inch based on very extensive feedback on a national scale, including research by Texas Tech University.

We understand that winds of less than 58 mph can produce damage. For these types of events, we utilize the Special Weather Statement to highlight winds below severe criteria during a thunderstorm. Therefore, during an event, it is very important to watch for warnings as well as special weather statements.

*****When we issue an Special Weather Statement for near severe criteria (1/2-3/4 inch hail and 40-50 mph winds), a special headline will be appended to the product which states "Significant Weather Advisory" which will allow users to sort out the Significant Weather Advisory from all other Special Weather Statements.*****

BREAKOUT SESSION NOTES: FIRE WEATHER

COMMENT: *Several people within the fire weather industry would like to visit our office to observe what we do to issue a fire weather forecast.*

ACTION ITEM: Our fire weather program leader, Kelly Hooper, is working to set up visits to our facility and shadow a fire weather forecaster. A meeting with fire weather customers has been proposed at our office in the winter of 2010-2011.

COMMENT: *Parameters for a Fire Weather Watch and Red Flag Warning*

ACTION ITEM: A Fire Weather Watch is issued when red flag conditions are expected between 24 to 72 hours. Red Flag Warnings are issued when red flag conditions are expected within 24 hours. A watch or warning is usually coordinated with the affected user(s).

RED FLAG CONDITIONS:

- 1) 10 hour fuel stick moisture < 9%
- 2) Relative humidity < 25%
- 3) 20 foot sustained wind speeds >15 mph

Kelly would like to conduct a meeting with the forestry service as well as the state parks to take a second look at our watch and warning criteria.

BREAKOUT SESSION NOTES: FIRE WEATHER

COMMENT: *What data goes into our fire weather products?*

ANSWER: **Observational, model and forecast data.**

COMMENT: *On site training to our regional state parks (West KY)*

ACTION ITEM: **Kelly plans on setting up training in the future.**

COMMENT: *Fire weather industry would like us to attend a prescribed burn.*

ACTION ITEM: **We plan to send forecasters to prescribed burns as much as we can.**

COMMENT: *Work on issuing better spot forecasts.*

ACTION ITEM: **We constantly strive to pay special attention to the wind, wind gust and relative humidity forecasts, since we realize the high importance of a accurate spot forecast. We will continue to work toward this goal.**

COMMENT: *Notification of Red Flag Watches/Warnings*

ACTION ITEM: **We always attempt to get in touch with the appropriate contacts. However, during the very early morning hours, if we are very certain of a watch or warning, we might go ahead and issue the product without coordination.**

BREAKOUT SESSION NOTES: FIRE WEATHER

COMMENT: Beef up smoke transport and dispersal products to include multiday forecasts with gridded wind models, nighttime /inversion forecasts.

ACTION ITEM: We have introduced the “vent rate” and a “dispersion index” into our fire weather planning forecast. We have added the Activity Planner to our fire weather webpage. This activity planner allows the user to input certain weather parameters and the planner will show the user when these weather parameters will occur. We will look into providing nighttime inversion forecasts.

COMMENT: Any chance of getting the fire weather forecast earlier than 830 am?

ACTION ITEM: We have proposed to change our deadline to 600 am instead of 830am.

COMMENT: Would like a downloadable tool that will provide red flag warning pop ups.

ACTION ITEM: Aside from private companies, the NWS has a fairly new service it offers as far as obtaining data on your cell phone. <http://inws.wrh.noaa.gov/>

Weather Activity Planner

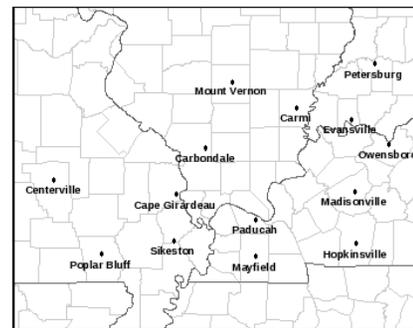
Welcome to the **Weather Activity Planner**. Please enter the range of weather parameters required for your activity. Then, either click the approximate location on the map below, or enter the specific latitude and longitude and hit submit. This will query the forecast grids to find when your weather requirements will be met at the nearest grid point over the next 7 days. Public **comments and suggestions** are encouraged.

This application generates products from a digital forecast data base. It is intended to allow a user to define and produce a forecast for general planning purposes only. As any weather or hydrologic event evolves, updated forecasts and warnings are issued by the NWS. Customers are urged to obtain the latest official forecast information prior to engaging in any weather sensitive activity, and to monitor forecasts for updates during such activities.

The **Weather Activity Planner** is NOT meant to replace a spot forecast request. **Weather Activity Planner** surface winds are a gridded representation of projected, local surface winds at a 5km or 2.5km resolution. The surface winds returned do NOT account for fuel type, sheltering or slope aspect. Users can select either surface wind speeds or 20 foot winds (if the 20 foot wind grid is available). If precise wind forecasts are needed, please submit a spot forecast request to your servicing Weather Forecast Office.

[\[English Units - Click to Change\]](#)

Element	Min	Max	Element	Min	Max
Temperature (°F) <input type="text"/>	<input type="text"/>	to <input type="text"/>	Surface Wind Direction <input type="text"/>	<input type="text"/>	to <input type="text"/>
Relative Humidity <input type="text"/>	<input type="text"/>	to <input type="text"/>	Sky Cover <input type="text"/>	<input type="text"/>	to <input type="text"/>
Surface Wind Speed (mph) <input type="text"/>	<input type="text"/>	to <input type="text"/>	Precipitation Potential <input type="text"/>	<input type="text"/>	to <input type="text"/>



[Read watches, warnings & advisories](#) [Zoom Out](#)

There are no watches, warnings, or advisories at this time.

Latitude/Longitude Entry
decimal degrees (i.e. 42.134) or
deg min sec (i.e. 42 23 34)

Latitude:

Longitude:

BREAKOUT SESSION NOTES: EM GROUP

CONFERENCE CALL COMMENTS:

- Give time line of when to expect weather in each section of CWA, so it might negate the need for everyone to ask when it will get to *their* area.
- Use bright colors on maps
- Use generic user friendly, non technical, public orientated graphics
- Make sure people know how to mute without locking people out
- Advance notice of conference calls is very useful (2-3 hrs)
- Planning of conference calls (if an area coordinator has to be at more than 1 and also make sure all WFOs are on the same page with the forecast).
- Conference call etiquette guide?

ACTION ITEMS: These are all easy to implement suggestions. We plan on putting together a cheat sheet for the forecasters to utilize for conference calls. We are working on having a standard introductory slide for our conference calls, which will be a list of “conference call etiquette tips” or it will be listed on the severe weather briefing page. We have changed our conference call services, which has eliminated some problem areas, such as locking people out and the ability for us to mute all lines.

COMMENT: Please use EM Chat more

ACTION ITEM: With the new version of E-spotter, EM chat will not be available. Instead, NWS Chat will be the new all-inclusive chat tool designed for only EMs and media. For more information, visit <https://nwschat.weather.gov/> Keep in mind, while we try to have someone working the communication position during every severe weather event, sometimes this is not possible, especially with a small event. Our intent is to have someone available to work the communications desk, whose job is to monitor all chat and e-spotter reports.

BREAKOUT SESSION NOTES: EM GROUP

COMMENT: *With the first major snowfall event of the season, try to hit it hard with advance warning and strong wording to get people to react.*

ACTION ITEM: **We will always try to convey the severity of the situation when we can. We have many “call to action” statements we can utilize that should help to get people to react. If you have any suggestions on wording that might help, please let us know.**

COMMENT: *Try to anticipate the public’s response to a certain forecast, watch, warning or advisory and try to use words to best convey safety tips.*

ACTION ITEM: **Again, we are always thinking about how the weather is going to affect the public and how we can mitigate problems through wording on our products, along with lead time with watches, warnings and advisories. We are always concerned about the impact of weather on the public and try to relay that through our forecasts and other products. A recent example of this occurred with the winter storm warning that was issued with the ice storm in January (2009). Here is a snippet from that warning in which we conveyed the threat:**

SNOW...SLEET...AND ICE ACCUMULATIONS OF THIS MAGNITUDE WILL HAVE A MAJOR IMPACT ON TRAVEL. PLEASE CONSIDER DELAYING OR CANCELING TRAVEL TONIGHT THROUGH WEDNESDAY MORNING. SIGNIFICANT DAMAGE TO POWER LINES AND TREES IS POSSIBLE IN SOME AREAS. LAST MINUTE PREPARATIONS SHOULD BE COMPLETED THIS AFTERNOON. PREPARE FOR THE POSSIBILITY OF EXTENDED POWER OUTAGES.

BREAKOUT SESSION NOTES: EM GROUP

COMMENT: *Really need those radars to stay up and stay continually updated.*

ACTION ITEM: **We will pass this information on to our Central Regional Headquarters.**

COMMENT: *Could we use weather radio to convey things such as major interstates/highways closed? What about CEMs for events where we have trapped motorists during a heat wave or a winter storm?*

ACTION ITEM: **A Civil Emergency Message is meant to address an imminent significant threat(s) to public safety and/or property. Therefore, for a CEM to be issued, there would have to be a threat to public safety or property.**

BREAKOUT SESSION NOTES: EM GROUP

COMMENT: Any way to get more observations in western Kentucky?

ACTION ITEM: In fact, a mesonet is currently in the works across Kentucky. The Kentucky Mesonet is a network of automated weather and climate monitoring stations being developed by the Kentucky Climate Center at Western Kentucky University to serve diverse needs in communities of Kentucky. Check out <http://www.kymesonet.org/>

COMMENT: In the Hazardous Weather Outlook, would like to see estimated speed of storms and time expected. Also try to be as specific as you can on time when you think spotters would be needed.

ACTION ITEM: We will take the opportunity to address these items at our annual local severe weather roundtable meeting, which takes place in the spring. We agree these would be very helpful planning tools. Remember that more specific details are usually available closer to an event.

COMMENT: Can we put some PDF brochures on our websites for them to use for public training?

ACTION ITEM: This has already been done. If you visit our Weather Education page, you will find many brochures to download. The Weather Education page is available via the left hand side menu on our homepage.

BREAKOUT SESSION NOTES: EM GROUP

COMMENT: The Emergency Managers would like us to take part in more of their exercises to see how things are done on their end.

ACTION ITEM: We feel we would benefit from participating in these exercises and will take any opportunities to do so. In addition, the staff will be taking Incident Command training this year.

COMMENT: Glossary of meteorologist shorthand? Try to be consistent with shorthand in Area Forecast Discussion.

ACTION ITEM: The easiest way to learn meteorologist shorthand (which we are actually trying to get away from) is to access the Area Forecast Discussion via the point and click map. After clicking on the map on our homepage, you will reach a page that looks like this →

On the bottom right, click on Forecast Discussion. In the discussion, certain words and phrases will be highlighted for you to click on to get a definition or explanation. If you access the Area Forecast Discussion via the Text Products page, it currently does not highlight any words or phrases.

The screenshot shows the National Weather Service website for Lone Oak, KY. At the top, it says "Your National Weather Service forecast" and "Lone Oak KY". Below that is a search bar for "City, ST or zip code" and a "Go" button. The main content area is divided into several sections:

- Forecast at a Glance:** A row of icons and text for each day from Today to Sunday. Today is Partly Sunny (Hi 41°F, Lo 29°F). Thursday has a 20% chance of snow (Hi 35°F, Lo 27°F). Saturday has a 30% chance of rain (Hi 53°F, Lo 44°F).
- Detailed 7-day Forecast:** A list of weather conditions for each day, including wind direction and speed. For example, "Today: Partly sunny, with a high near 41. North wind between 10 and 13 mph."
- Current Conditions:** Shows "A Few Clouds" with a temperature of 37°F (3°C). Other metrics include Humidity (65%), Wind Speed (14 MPH), Barometer (30.41"), Dewpoint (28°F), Wind Chill (28°F), and Visibility (10.00 mi).
- Radars and Satellite Images:** Two small maps showing radar and satellite data for the region.
- Detailed Point Forecast:** A map showing the location of Lone Oak, KY, with a red box highlighting the forecast area. The map includes labels for Metropolis, Brookport, Paducah, and Ledbett.
- National Digital Forecast Database:** A section with a map and a list of links for "Zone Area Forecast", "Forecast Discussion", "Pointable Forecast", "Hourly Weather Graph", "International System of Units", "Hazardous Weather", and "Past Weather Information".
- Additional Forecasts & Information:** A list of links for "Zone Area Forecast for McCracken County, KY", "Air Quality Forecasts", "Text Only Forecast", "Tabular Forecast", "About Point Forecasts", "Regional Weather Conditions", and "Home".

BREAKOUT SESSION NOTES: MEDIA GROUP

COMMENT: *On the conference calls, give the basics first to the EMS, then, talk about the meteorology for the media.*

ACTION ITEM: We can try to tailor our conference calls to hold off on any meteorology conversation until the end.

COMMENT: *Any kind of pre-warning on IM is very helpful (watches and/or warnings)*

ACTION ITEM: The NWSChat has become the official NWS instant messaging service. NWS policy allows us to provide “pre-warning” information “if we plan to have an official product out the door in 5 minutes or less. If we anticipate a watch/warning/advisory may be issued we can use words such as “likely”, “could”, or “maybe” to communicate the possibility. We will do this as much as time allows, especially for the slower paced events.

COMMENT: *The media would like to see the hail criteria raised.*

ACTION ITEM: **Effective April 1, 2009** - the hail criteria for severe thunderstorms will be 1 inch.

COMMENT: *Mile markers would be very helpful in warnings for the radio media.*

ACTION ITEM: Until mile markers are baseline in our Warngen program (which produces the warnings), they will not be included in the warnings. The reason being, the program seems to not be able to handle these additions well at this time. Updates to this program will be required to make this happen. This suggestion is going to be elevated to the National Severe Weather Program Leader.

COMMENT: *Clear counties from a watch in a timely manner.*

ACTION ITEM: We always attempt to clear counties as fast as we can. Sometimes, if the line or area of storms is moving fast enough, we might wait for a larger group of counties to clear before dropping the watch. Otherwise, we would have numerous updates to our products, which may be confusing.

BREAKOUT SESSION NOTES: MEDIA GROUP

COMMENT: *If anticipating blanket warnings, let us know.*

ACTION ITEM: The use of blanket warnings depends on the situation, however we will work to avoid large blanket warning scenarios.

COMMENT: *Mesoscale updates would be very helpful*

ACTION ITEM: We agree that mesoscale updates would be helpful for all of our users. While we always attempt to update our area forecast discussion when things are changing rapidly, sometimes, this is not always feasible due to a multitude of different reasons.

COMMENT: *Longer watches are better for big events*

ACTION ITEM: We will pass this comment onto SPC.

COMMENT: *The radio media would like to see a point and click map that gives a general forecast for a larger area rather than just a specific point. We need a forecast to cover a portion of an area, which might even cover more than one county warning area (CWA).*

ACTION ITEM: We are going to propose an idea to our Central Regional Headquarters which might help with this comment. We thought of creating a forecast generator, where you could choose the counties you want and then receive a summarized forecast for that group of counties.

BREAKOUT SESSION NOTES: HYDROLOGY GROUP

COMMENT: *We feel your website is overwhelming and difficult to navigate.*

ACTION ITEM: We understand our website can be a little tricky to navigate at times. The home page was designed with efficiency and simplicity in mind, in order to provide quick and easy access to the current forecast for our area, including current weather and any watches/warnings and advisories. The web site contains a wealth of information and is broken up into a number of major sections; each of which is contained in the blue navigation bar on the left hand side of the screen. We invite you to take some time and go through the links to see what type of information is available. We are going to look at ways to make our website easier to navigate based on your feedback. We may try to create a tutorial in the future.

COMMENT: *Can we add Chester to the Cape Girardeau NOAA Weather Radio broadcast?*

ACTION ITEM: Chester is already on the Cape Girardeau NOAA Weather Radio broadcast.

COMMENT: *We want more frequent river forecast updates from all the RFCs, even evening updates.*

ACTION ITEMS: We will always strive to send out updates to the rivers, even if nothing has changed.

BREAKOUT SESSION NOTES: AVIATION GROUP

COMMENT: Will MDH (Carbondale, IL) get a TAF?

ACTION ITEM: A MDH aviation forecast is currently in the works.

COMMENT: I need Skew-T data for Carbondale, IL (Freezing level data, winds)

ACTION ITEM: Try out this website - <http://rucsoundings.noaa.gov/beta/>

This website allows you to generate soundings. Just choose your data source and type in KMDH for Carbondale, IL.

COMMENT: Can you tailor area forecast/airmets and sigmets to our area?

ACTION ITEM: The NWS in Paducah, KY does not issue airmets and sigmets. Please see the NWS Aviation Weather Center at <http://aviationweather.gov/>

COMMENT: Is the VWP data available to the public? VWP text product?

ACTION ITEM: While the VWP is not readily available on any NWS websites, it is available on some college and private company websites.

COMMENT: Can we get the satellite pictures to loop on the website?

ACTION ITEM: Looping satellite images are already available on our website. Access satellite data from the left hand side menu on our homepage by choosing Satellite Images.

BREAKOUT SESSION NOTES: AVIATION GROUP

COMMENT: *We want more ASOSs*

ACTION ITEM: Unfortunately, adding more ASOS/AWOS units is simply a matter of funding. At this time, there are no plans to add any additional units.

COMMENT: *No TAFs between EVV (Evansville, IN) and STL (St. Louis, MO)*

ACTION ITEM: We are currently working on setting up a TAF (Terminal Aerodrome Forecast) for Carbondale, IL (MDH), which should help with the void in this route.

COMMENT: *Wish ASOS/AWOS had faster reaction time to changing conditions.*

ACTION ITEM: ASOS/AWOS units can report in as little as a minute. In the past, due to communication traffic, it was thought that this would be too much information to transmit. However, in the future, you may see all ASOS and AWOS units transmitting more often, which might help in catching those fast changing weather conditions.

COMMENT: *Would like to see a link on our Aviation webpage to the Aviation Discussion*

ACTION ITEM: The aviation discussion definitely needs to be added to our Aviation page. We will work on adding it. In the meantime, try out this webpage to view aviation discussions from around the country: <http://aviationweather.gov/testbed/afd/>

COMMENT: *Make TAFs current/concise – too many TEMPOs groups gives the impression we're just flipping a coin to make the forecast.*

ACTION ITEM: We are constantly trying to produce aviation forecasts with little to no TEMPO groups. We understand that too many TEMPO group gives the wrong impression. We will strive toward more concise forecasts.

BREAKOUT SESSION NOTES: UTILITIES, POWER PLANTS AND TRANSPORTATION

COMMENT: *Would like to see a two week forecast outlook*

ACTION ITEM: While the local NWS offices do not issue a two week outlook, the Climate Prediction Center does. Check out <http://www.cpc.ncep.noaa.gov/> for 6 to 10 day, 8 to 14 day and one to three month outlooks.

COMMENT: *Massac County Hwy Dept says they can provide data such as snowfall via email but would like proper instruction on data collection.*

ACTION ITEM: We need to follow up with your offer! We can simply send you out a video that shows you everything you need to know to measure snowfall.

COMMENT: *Missouri DOT trucks are equipped with infrared sensors that measure pavement temperature- logged at stations.*

ACTION ITEM: We need to find out how to retrieve this data.

COMMENT: *Ameren has outage maps for MO/IL in real time by zip code.*

ACTION ITEM: We have added this website to our internal operational forecasting website for our forecasters to utilize during an event.

BREAKOUT SESSION NOTES: UTILITIES, POWER PLANTS AND TRANSPORTATION

COMMENT: *Owensboro Electric produces a shapefile of damage after an event.*

ACTION ITEM: We surely would appreciate having this type of information after an event, and will likely contact you for this information, or you may fax us this information at 270-744-3828.

COMMENT: *Would like real time data, including ice/snow accumulation reports.*

ACTION ITEM: Local storm reports are routinely issued during winter weather events. Many times we will have a link on our homepage under the Top News of the Day section. Otherwise, choose TEXT PRODUCTS on the left hand menu to find the LSR (Local Storm Report). We hope that in the future, the Local Storm Report will simply be a link on the homepage. Local Storm Reports are usually issued as real time as we possibly can. We added a link to our website that will be a map that will plot all of our local storm reports.

BREAKOUT SESSION NOTES: SCHOOLS/NURSING HOMES

COMMENT: *Include more landmarks in our warnings.*

ACTION ITEM: We will look for opportunities to add some landmarks into our warnings. Our first thoughts are to add all area lakes as landmarks and maybe even state parks.

COMMENT: *Need to be able to zoom in on radar to see specific cells (direction/speed etc) and not lose quality (keep buses safe)*

ACTION ITEM: These types of requests are simply out of our hands and are up to the developer of the radar page. We will send your comment up to our Central Region Headquarters.

COMMENT: *For winter weather, we need very accurate information in the 5am to 7am time frame.*

ACTION ITEM: Forecasters are usually done with the overnight forecast package no later than 400 am. Therefore, you should have a very good idea of what we are thinking by the 5am – 7am time frame. In addition, all watches and advisories would be issued by that time as well, which will aid in your planning.

COMMENT: *Very concerned with dense fog – would need us to make a decision by 6am so they can announce any delays for school. Would actually like the dense fog advisory tone alerted.*

ACTION ITEM: Usually, if dense fog is going to form, it will begin to occur well before 600 am and we would likely have a dense fog advisory in affect, or a Special Weather Statement.

BREAKOUT SESSION NOTES: MISCELLANEOUS

COMMENT: Many people seemed confused on the Red Flag Warnings and that there is criteria to be met. Yet they see spot fires already started with no warning in effect.

ACTION ITEM: It was not until the last few years when the Red Flag Warning became more mainstream in the public eye. The Red Flag Warning was developed in coordination with the forestry service and intended to give area firefighting and land management agencies an idea of what conditions are ideal for wild land fire ignition and propagation. The forestry service will usually alter their staffing and equipment resources dramatically to accommodate the forecast risk. The most important parameter for wild land fire propagation is the wind. You may have spot fires that ignite, but if there is little to no wind, the fire will easily be controlled. It is the fires that ignite and then become uncontrollable due to weather conditions, that the forestry service is concerned with.

The Red Flag Warning accounts for 3 parameters that will increase the likelihood of ignition as well as propagation of fires.

RED FLAG CONDITONS:

- 1) 10 hour fuel stick moisture < 9%**
- 2) Relative humidity < 25%**
- 3) 20 foot sustained wind speeds >15 mph**

BREAKOUT SESSION NOTES: MISCELLANEOUS

COMMENT: Lake wind advisory/Small craft advisory??

ACTION ITEM: We have recently implemented a new product called the Lake Wind Advisory. The requirements for issuing a Lake Wind Advisory are sustained winds of greater than or equal to 15 mph for more than an hour. This product will be issued when needed from May 1 through September 30th.

COMMENT: Are we going to summarize the 2007 drought report?

ACTION ITEM: While we have not summarized the 2007 drought report, a yearly summary is available for 2007 which will give information regarding the drought. You can find that summary here:

http://www.crh.noaa.gov/images/pah/pdf/2007_Review.pdf

COMMENT: What can be done about the lag time between actual event and the warning being received?

ACTION ITEM: Education: Some reports, especially public reports, need to be validated. At times, by the time we receive the reports, the storm may be dissipating and there is no need for a warning.

BREAKOUT SESSION NOTES: MISCELLANEOUS

COMMENT: *Can you use storm damage reports to provide an overlay on a map of the storm path and damages or wind speeds/hail/lightning?*

ACTION ITEM: We added a link to our website that will plot all of our local storm reports, which would include high winds, hail, damage and many other different types of weather. For tornado paths, after our damage survey teams complete their surveys, a tornado path map is created and uploaded to the website. Lightning would be the only weather phenomenon that we would not be able to map, because we do not own this data.

COMMENT: *Expand on your notification systems – EMAIL/CELL PHONE/Desktop alerts?*

ACTION ITEM: Aside from private companies, the NWS has a fairly new service it offers as far as obtaining data on your cell phone. This is an experimental service but we encourage you to check it out: <http://inws.wrh.noaa.gov/> Since this is experimental, feel free to contact the developers with your ideas, as they would appreciate hearing from you.

COMMENT: *Let's try to utilize the highway signs for our watches/warnings and advisories!*

ACTION ITEM: This would be a great way for commuters from near and far to obtain the latest weather information from the NWS. We have been working on this idea and it has already been implemented in many places across the U.S. with highway signs and even utilizing Walgreens marquee signs. This is now being done in Indiana.