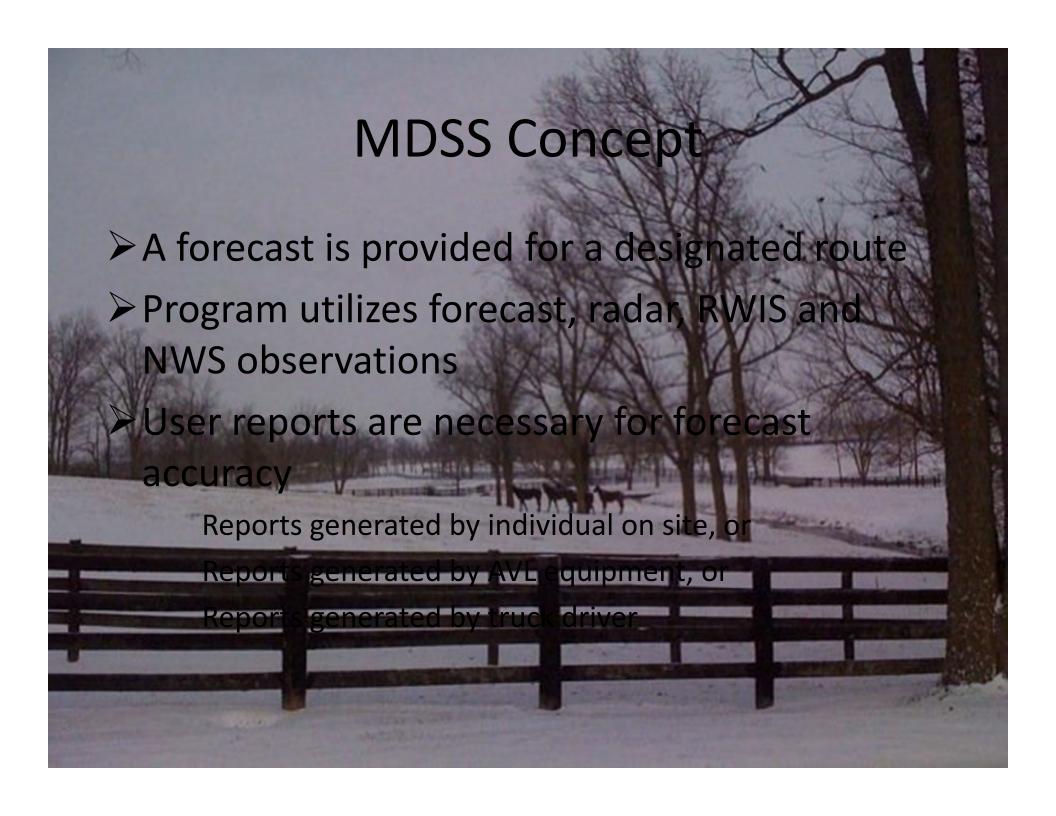


## Maintenance Decision Support System (MDSS)

- Currently, 14 states participating in the PFS CO, KY, MD, MI, MN, NE, NH, NY, ND, SD, PA, VA, WI, WY
- > 2013 will be Kentucky's 5th year as a member
- > PFS began in October, 2002
- As a PFS member state, Kentucky has been able to practice the technology as it develops
- > This will be the 2<sup>nd</sup> year of a statewide deployment effort
- PFS will soon be nearing an end, as it is going on 10 years in practice
- Once the PFS concludes, states and other agencies will have the opportunity to solicit weather services with the MDSS tochnology



- > Utilizes a route specific weather forecast
- endations are given for each route
- an approaching weather event







Population: 4.38 million, 51.8% urban

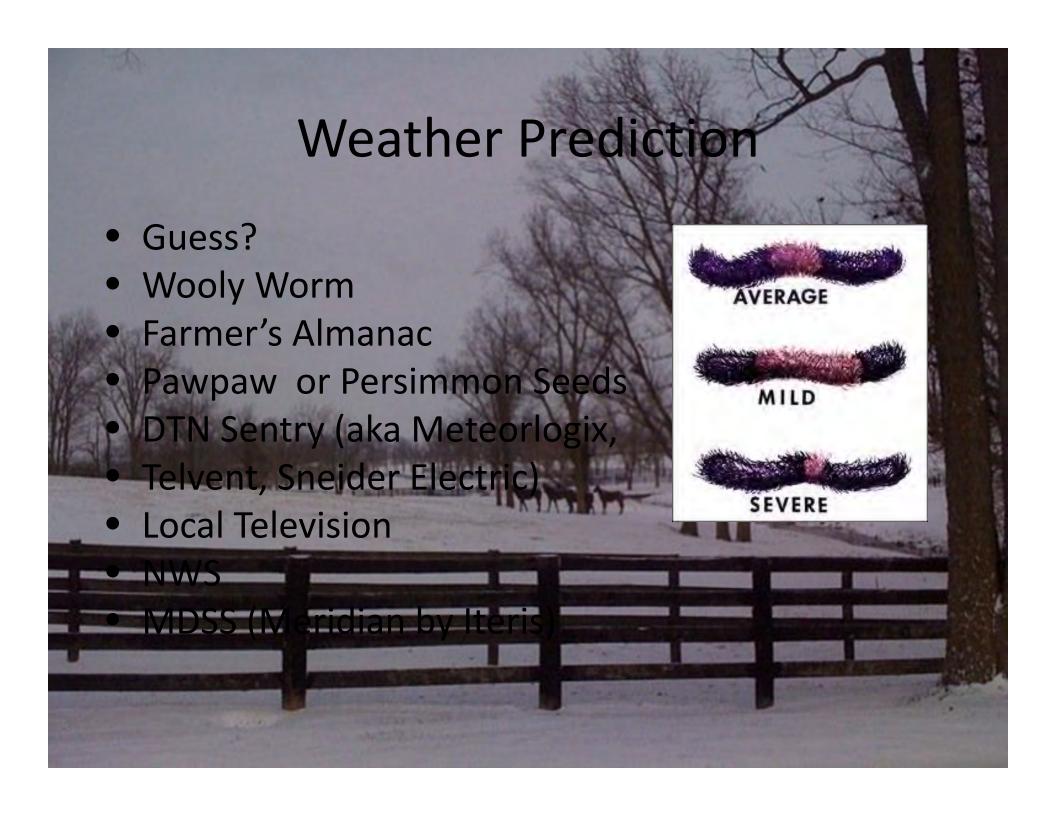
Maintained Centerline
Miles
27,572 state (~60,000 lane
miles)

Average Winter weather—temp 36 degrees (Jan 33 degrees), 12 ir snowfall (10-20 in), FEMA declared ice storms (2003, 2009)



- Provide bare pavement or adequate traction on road surfaces
- Keep traffic moving in a safe and uninterrupted manner
- Provide statewide uniformity of pavement conditions within each snow and ice control priority system
  - Consider economic and environmental factors while achieving safe driving conditions

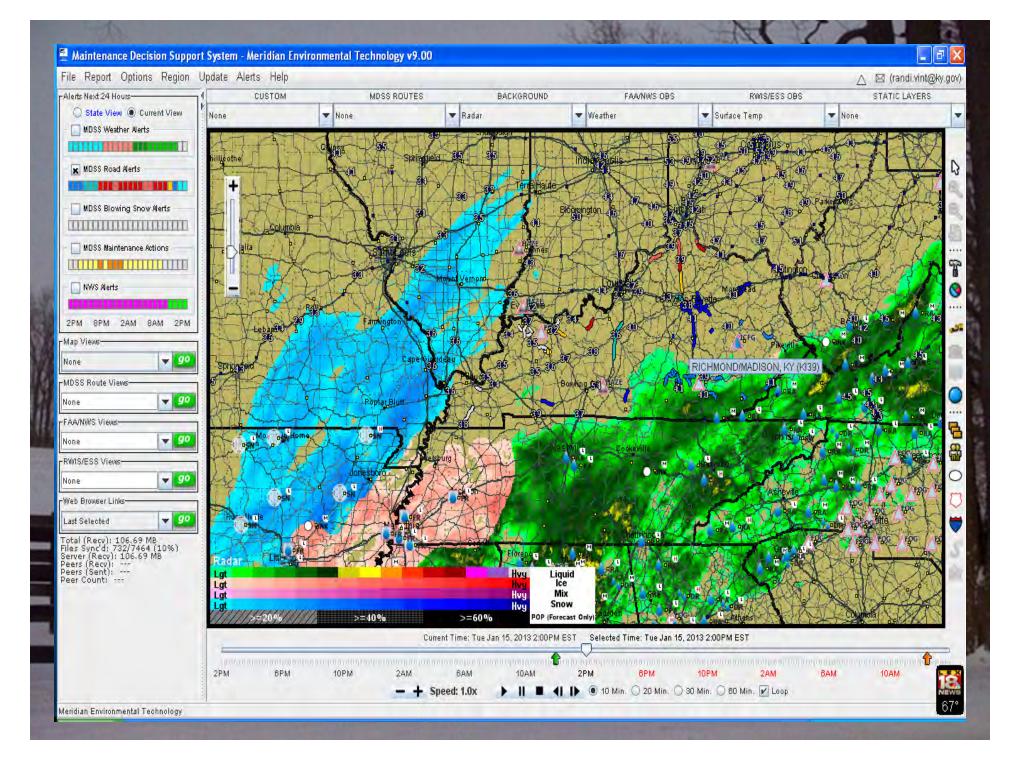


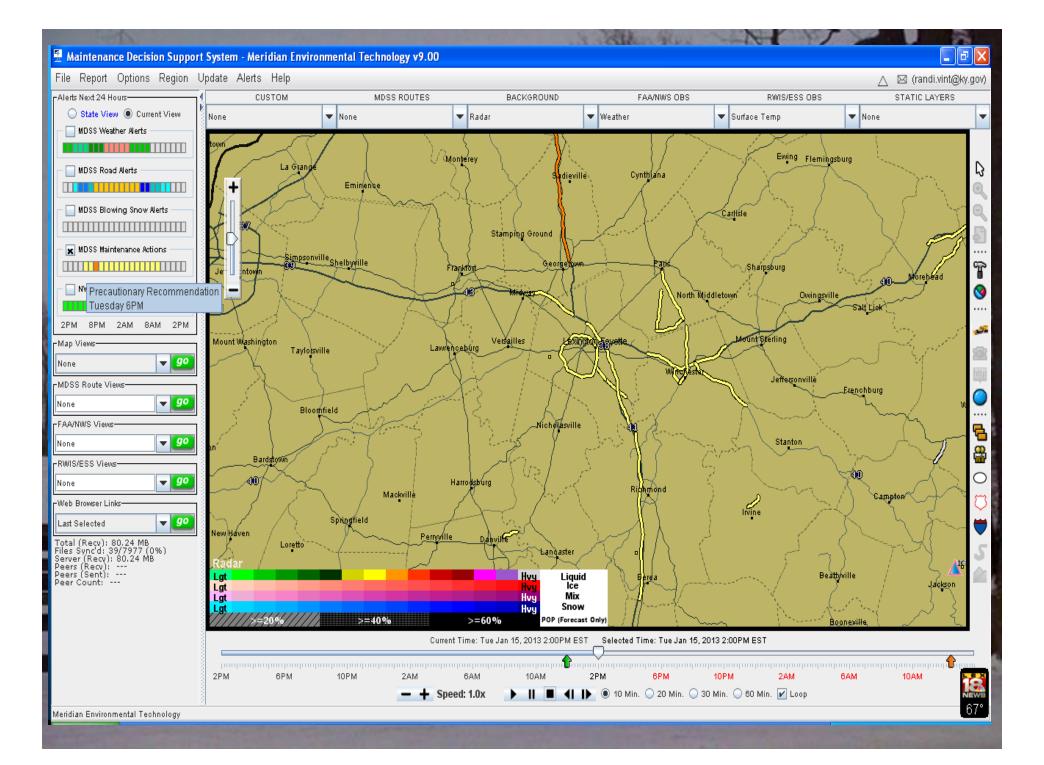


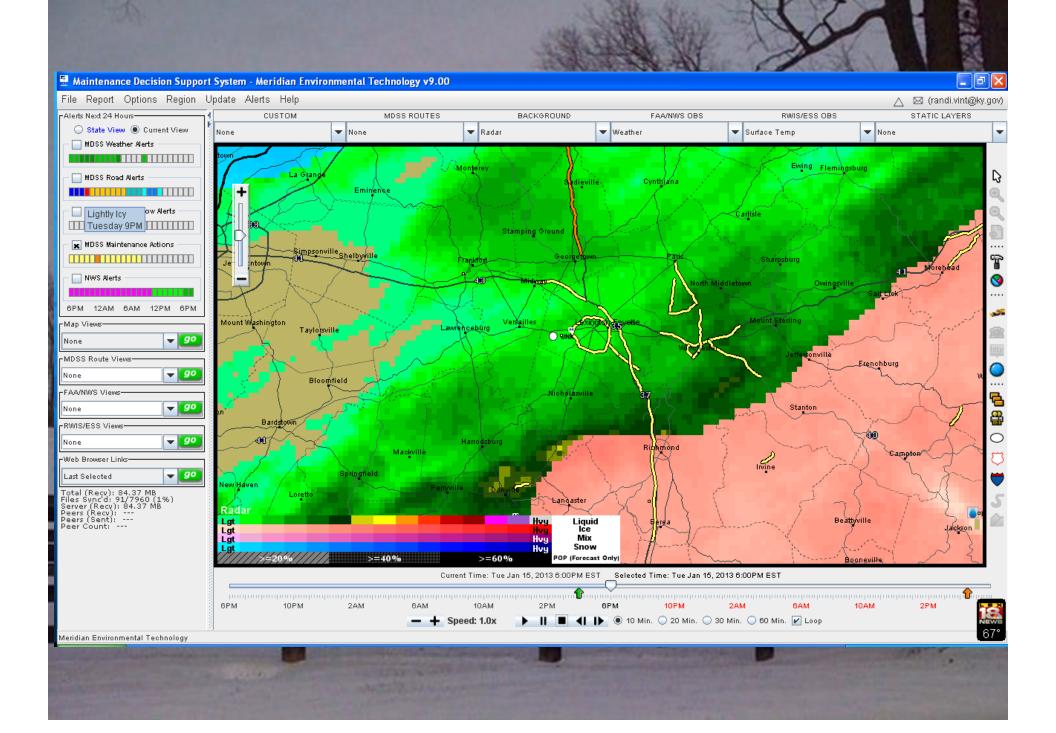
## In case you haven't seen it...

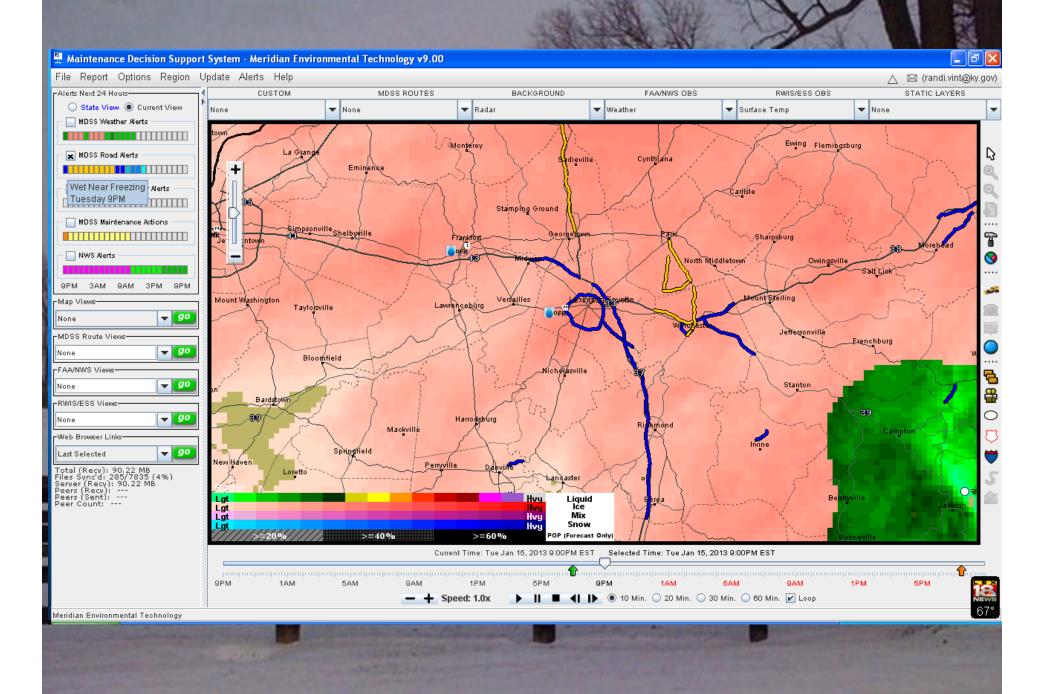




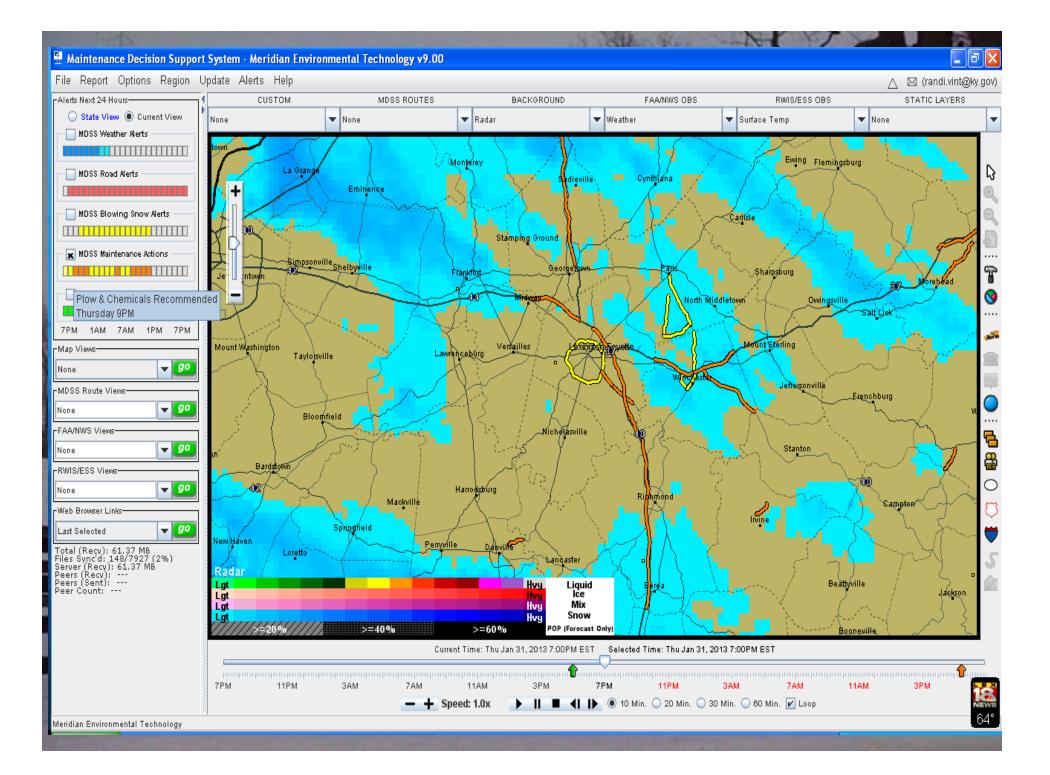


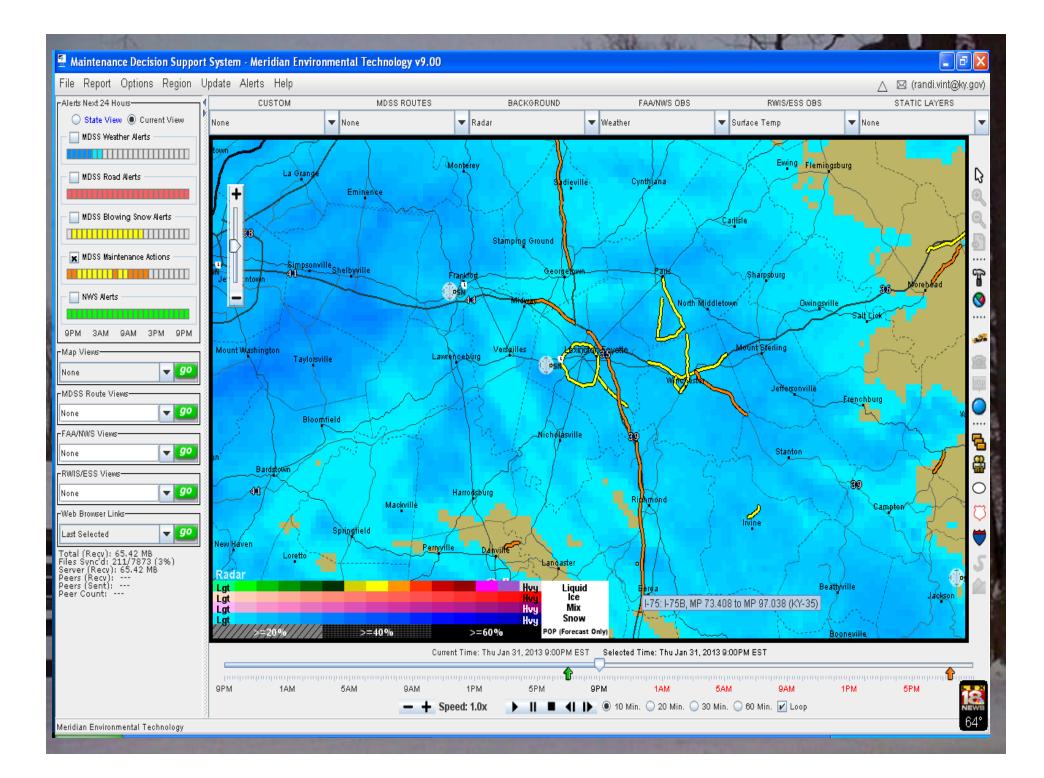




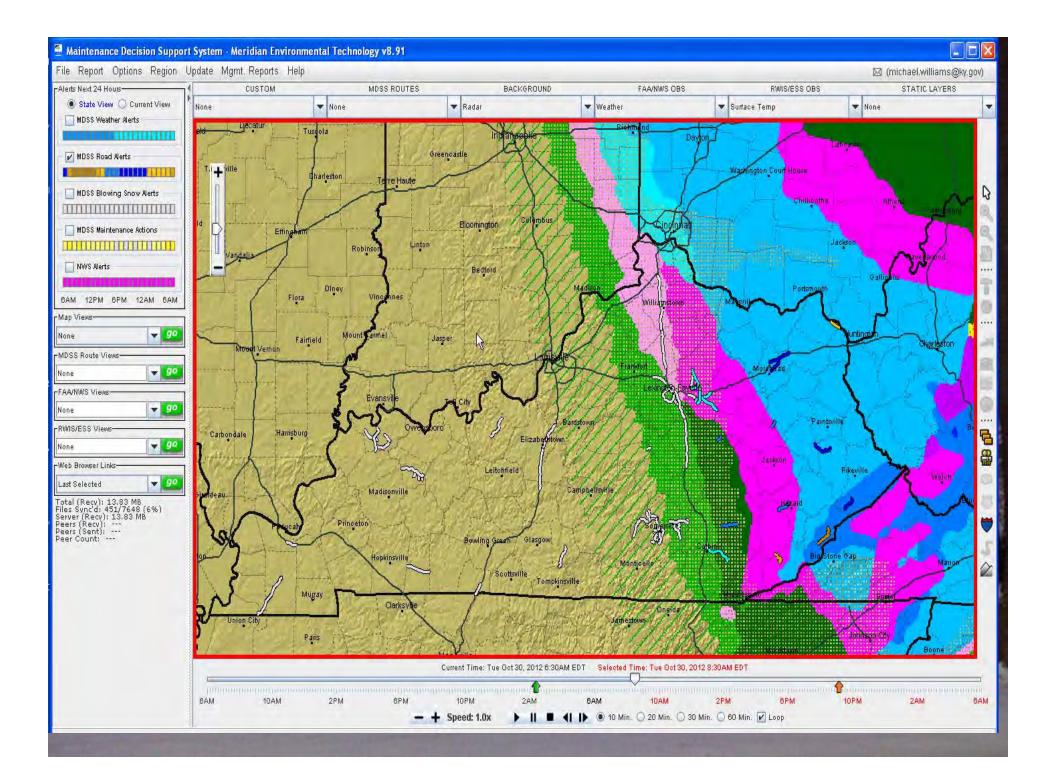




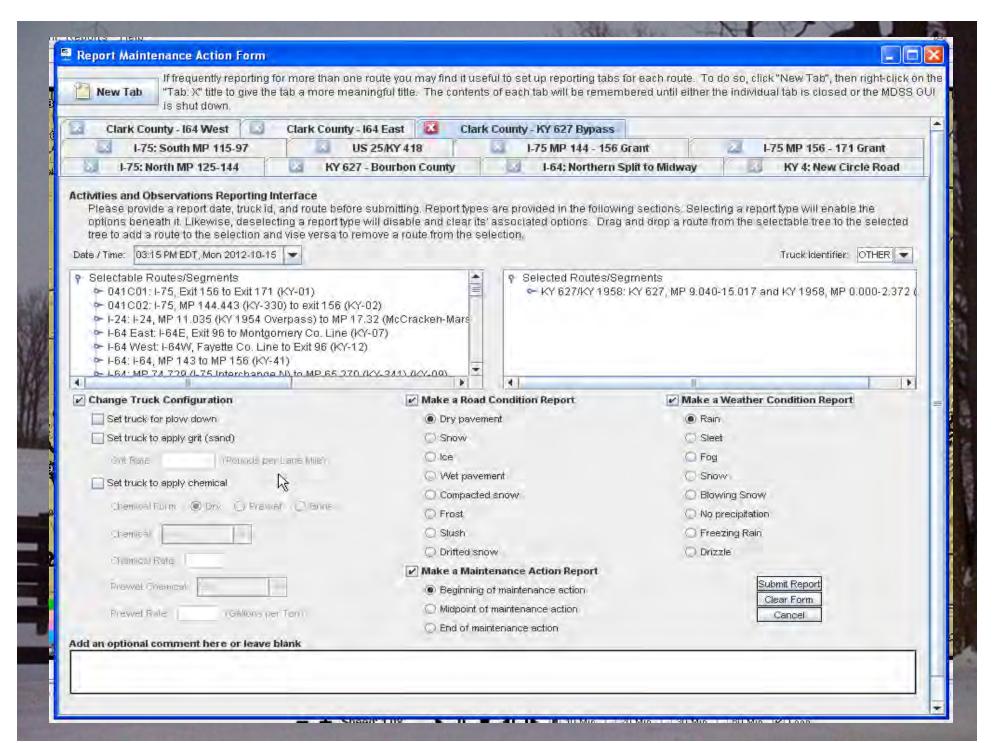








## Maintenance Decision Support System - Meridian Environmental Technology v8.91 File Report Options Region Update Mgmt Reports Help M (michael.williams@ky.gov) -Alerts Next 24 Hours-Custom Defaults Last Refresh: Thu 08:11AM ✓ None ✓ MDSS Standard State View Current View 1-75B (MP 73.408 (RockCastle Co. line) to MP 97.038 (US 25)) KY-35-1 MDSS Weather Alerts Corrent Time in Eastern Standard Time \* 84 T 80 T 8 180 ✓ MDSS Road Alerts 76 76 ++++ 72 72 68 68 MDSS Blowing Snow Alerts 64 F .... 60 60 KHROKUROKUROKUROKUROK 0 56 MDSS Maintenance Actions .... 5 Road Temp Road Temp 44 • None None \* NWS Alerts 40 T 40 MDSS -0-- MDSS 36 36 Dew Point -- Dew Point .... 32 32 Air Temp \* \* Air Temp 28 Fahrenheit C Fahrenheit 8AM 2PM 8PM 2AM 8AM 28 24 **T**24 -Map Views-20 20 16 ₹ go 16-None 12 112 -MDSS Route Views-18 I-75: I-75B, MP 73.408 to MI 🔻 90 FAA/NWS Views-7:00 PM Wed 1:00 AM Thu 7:00 AM Thu 1:00 PM Thu y go None Current Time in Eastern Standard Time 100 T T100 -RWIS/ESS Views-90 90 ₩ go 80 180 70 Precip 70 Precip -Web Browser Links-Liquid 60 Liquid 60+ Freezing Freezing **₩** go Last Selected 50--50 Sleet Snow Sleet 🔲 Total (Recv): 358.03 MB Files Sync'd: 655/7490 (9%) Server (Recv): 358.03 MB Peers (Recv): ---Peers (Sent): ---40 Snow -30 Probab. 88 Probab. % 30-20 20 10 10-Peer Count: ---7:00 PM Wed 1:00 AM Thu 7:00 AM Thu 1:00 PM Thu 7:00 PM Thu Current Time in Eastern Standard Time 0.5 T Snow Snow Accum. Accum. Rate Rate 🔲 Inches/Hr Inches/Hr 7:00 PM Wed 1:00 AM Thu 7:00 AM Thu 1:00 PM Thu 7:00 PM Thu 1:00 AM Fri 7:00 AM Fri Meridian Environmental Technology







- ~155,000 horses
- \$1.75 billion worth of horses bought and sold each year in KY
- Bourbon production is a \$2 billion industry in KY
- There are 4.7 million barrels of bourbon currently being stored in KY (more than there are people)
- KY ranks 3<sup>rd</sup> in vehicle production in the US (behind Michigan and Ohio) ~ 1 million veh's
- Coolest of those: Chevy Corvette

