

# 2004 Joint Statistical Meetings, Luncheon WL-13: Interactive Linked Micromap Plots

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## Abstract

Linked micromap (LM) plots provide a new statistical paradigm for the viewing of geographically referenced statistical summaries in the corresponding spatial context. The main idea behind LM plots is to focus the viewer's attention on the statistical information presented in a graphical display. Multiple small maps are used to provide the appropriate geographic reference for the statistical data. Linked micromap plots were first presented to the statistical community at the 1996 Joint Statistical Meetings in Chicago. Since then, micromaps have experienced many upgrades and are now available for use on interactive web sites. We will discuss basic ideas of micromaps, how to produce them in S-Plus or nViZn, and which updates have to be made to the NCI Java code to be able to install a local interactive micromap web server. Source code can be made available upon request.

## Basic Linked Micromap (LM) Plots

- References: Carr & Pierson (1996), Carr, Olsen, Courbois, Pierson & Carr (1998), Carr, Olsen, Pierson & Courbois (2000), Carr, Wallin & Carr (2000), Carr (2001)

## Micromaps via S-Plus

- URL: <ftp://galaxy.gmu.edu/pub/dcarr/newsletter/micromap/>
- References: Carr & Pierson (1996), Carr et al. (1998)

## Micromaps via nViZn (<http://spss.com/nvizn/>)

- References: Jones & Symanzik (2001), Symanzik & Jones (2001), Symanzik, Hurst & Gunter (2002), Hurst, Symanzik & Gunter (2003)

## Micromaps at the EPA Cumulative Exposure Web Site

- URL: formerly accessible at <http://www.epa.gov/CumulativeExposure/>
- References: Symanzik, Wong, Wang, Carr, Woodruff & Axelrad (2000), Symanzik, Axelrad, Carr, Wang, Wong & Woodruff (1999), Symanzik, Carr, Axelrad, Wang, Wong & Woodruff (1999)

## Micromaps at the USDA–NASS Web Site

- URL: <http://www.nass.usda.gov/research/sumpant.htm>

## Micromaps at the NCI Web Site

- URL: <http://www.statecancerprofiles.cancer.gov/micromaps>
- References: Wang, Chen, Carr, Bell & Pickle (2002), Carr, Chen, Bell, Pickle & Zhang (2002)

## Micromaps at the Utah State Web Site

- URL: prototype at <http://webcat.gis.usu.edu:8080/index.html>

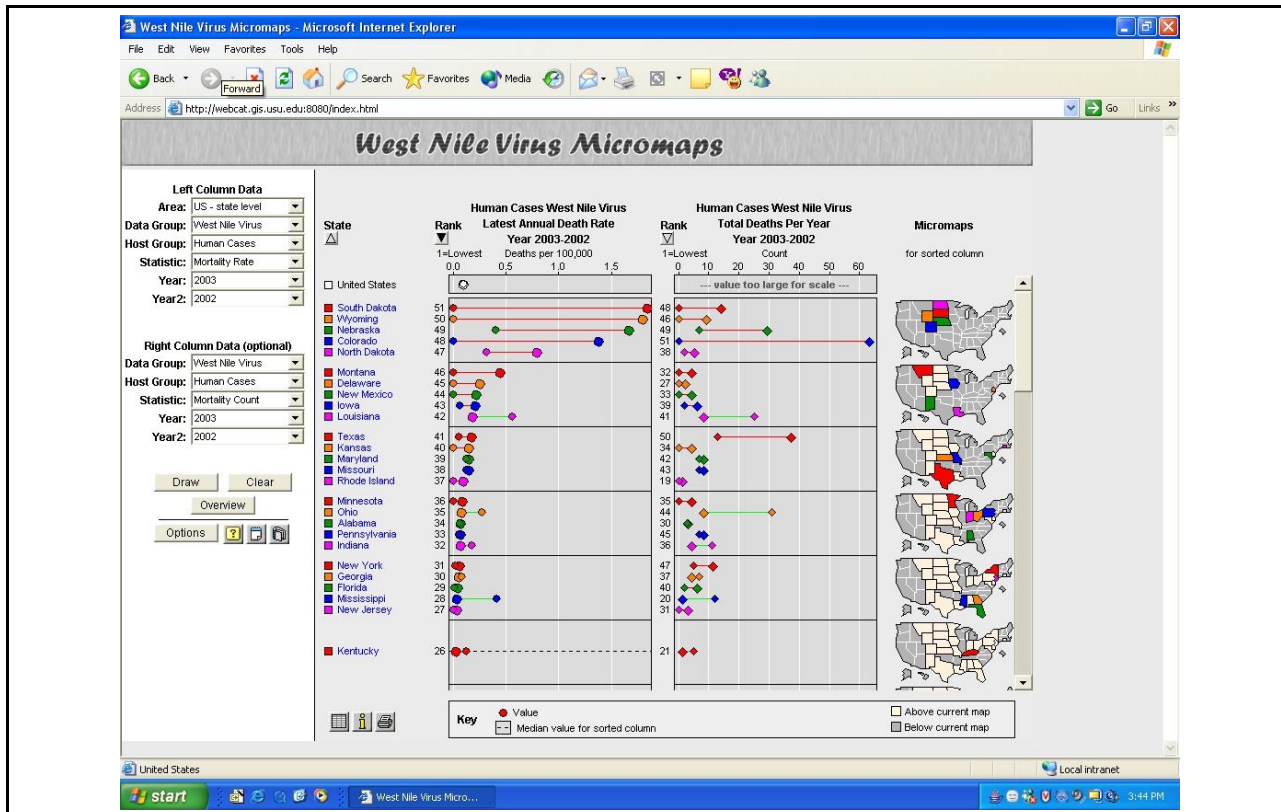


Figure 1: Screenshot of the West Nile Virus Micromap Web Site at USU.

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