

Introduction to Geographic Information Systems

GEOG 265

Southwest Oregon Community College

Lab 8 – Map Layouts



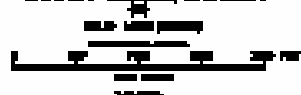


What is a good map?

A good map is...

- ◆ accurate ?
- ◆ current ?
- ◆ topical ?
- ◆ aesthetic ?
- ◆ timely ?
- ◆ relevant ?
- ◆ informative ?
- ◆ all the above ?

THIS MAP IS A REPRODUCTION OF THE
 ORIGINAL MAP OF THE
 LANDS OF THE UNITED STATES
 PATENT OFFICE, WASHINGTON, D.C.

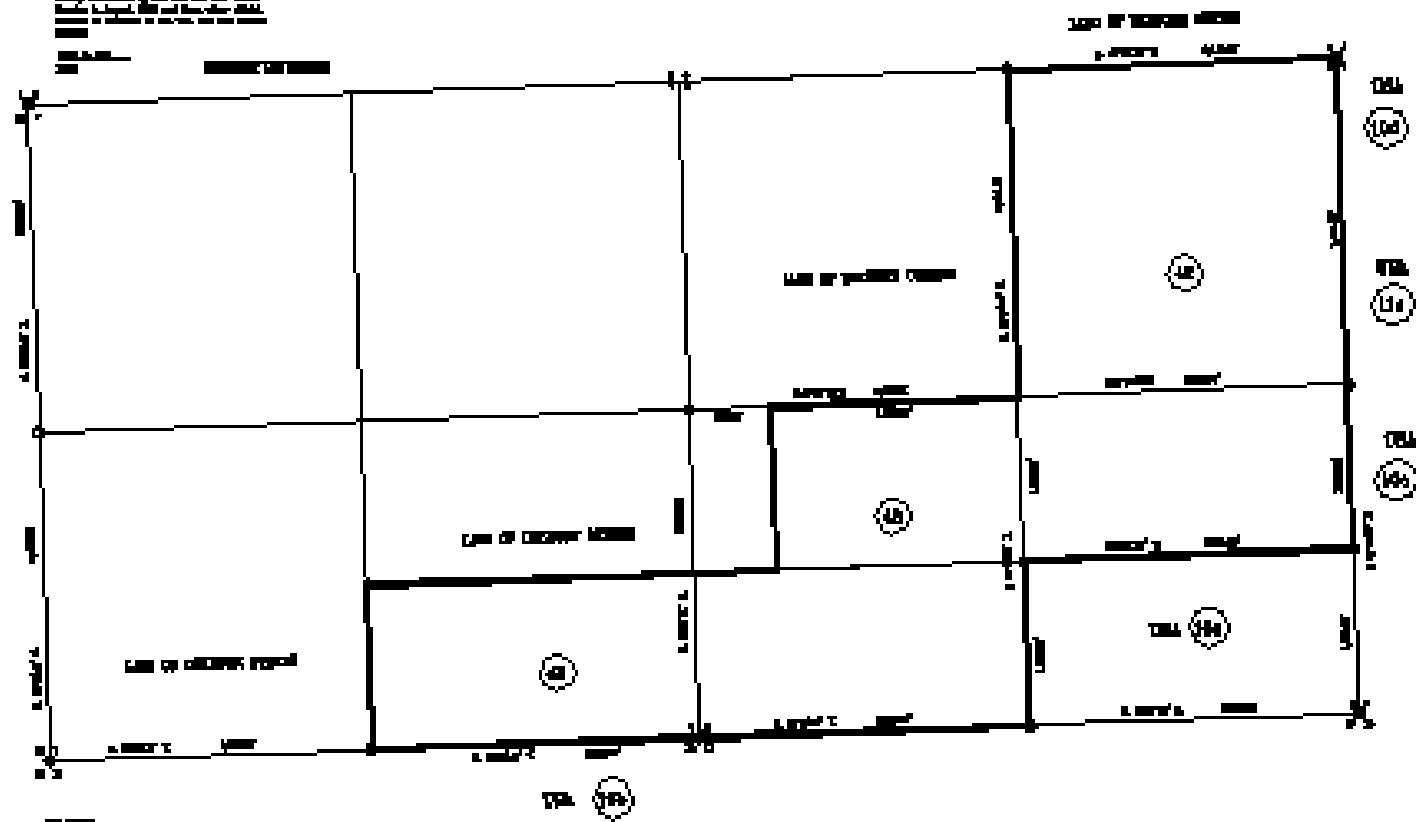


ALL DISTANCES ARE MEASURED IN FEET
 UNLESS OTHERWISE SPECIFIED
 THIS MAP IS A REPRODUCTION OF THE
 ORIGINAL MAP OF THE

UNITED STATES OF AMERICA
 GEOGRAPHICAL NAME BOARD
 WASHINGTON, D.C.

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UNITED STATES
 GEOGRAPHICAL NAME BOARD



MIDDLE EAST





nationalatlas.gov
Where We Are

WEST NILE VIRUS

Wild Bird Cases: Cumulative Report

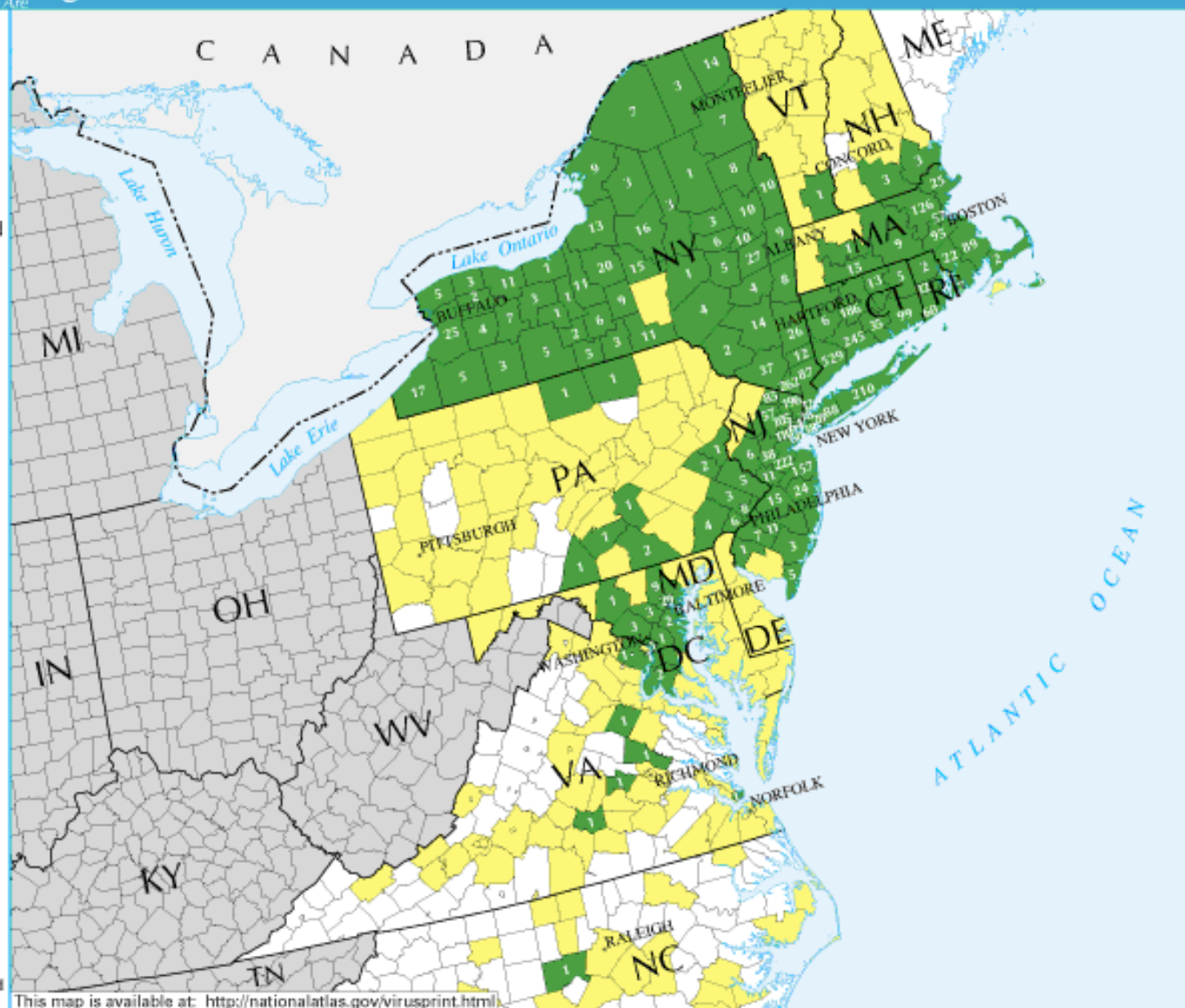
Data from reports made
between 1 JAN 00 and 8 DEC 00.

- Number of Positives
- Test Samples Submitted
- No Reports
- Not Participating

These county and county equivalent data are based on tests of tissue samples from dead and diseased wild birds, provided by state health officials. Many of these data represent crows, which are especially sensitive to West Nile virus (WNV). Note that the map includes all areas of positive (confirmed or probable) WNV results, but not necessarily all areas with submitted samples or no reports.



Disclaimer: These data are provisional and may be revised or adjusted in the future.

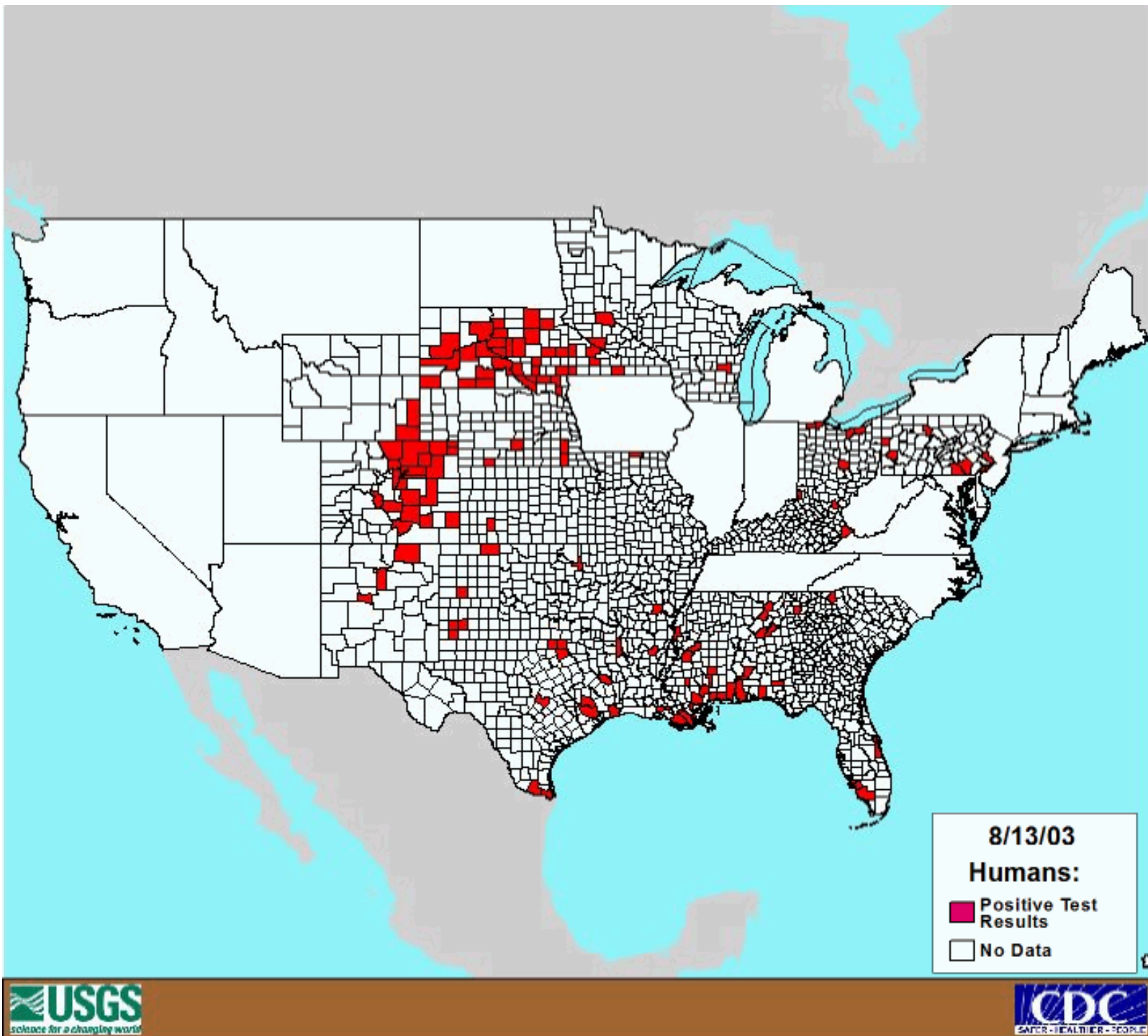


This map is available at: <http://nationalatlas.gov/virusprint.html>

U.S. Department of the Interior
U.S. Geological Survey

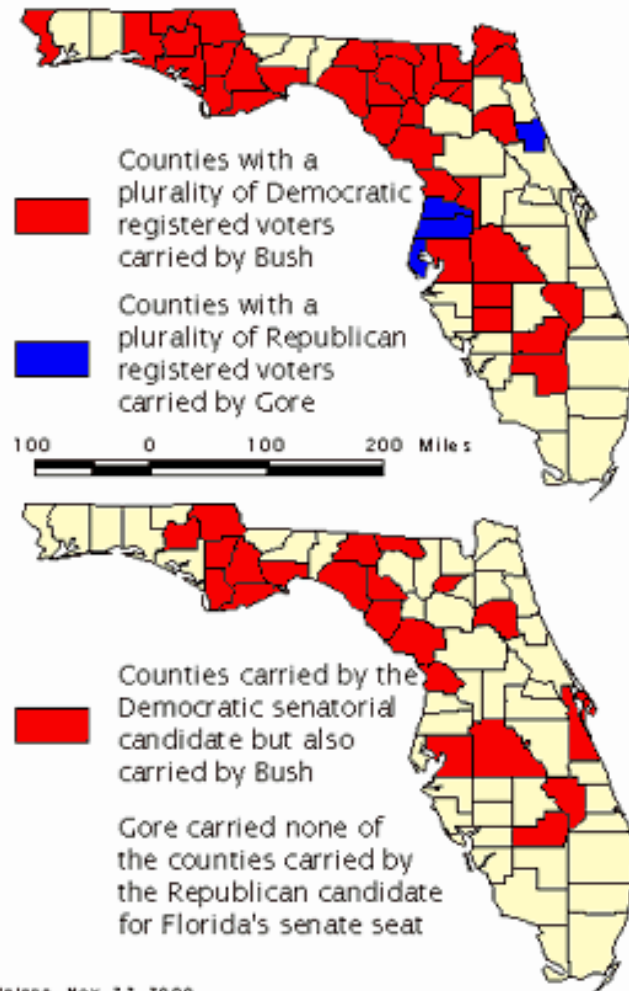
U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

The National Atlas of the United States of America®

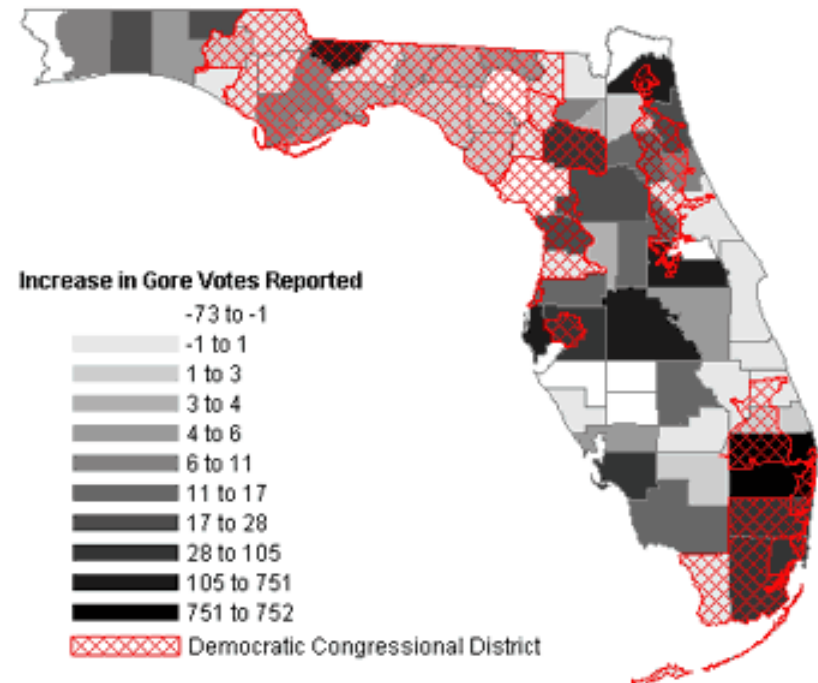


Party Cross-Over Voting?

Source: Florida Department of State, Division of Elections.





JOE T. KILPINEN, NOV. 22, 2000.



Bigfoot Sightings In the Pacific Northwest

LEGEND

-  Location of Bigfoot Sightings
-  Location of Suspected Bigfoot Footprints
- Major Cities

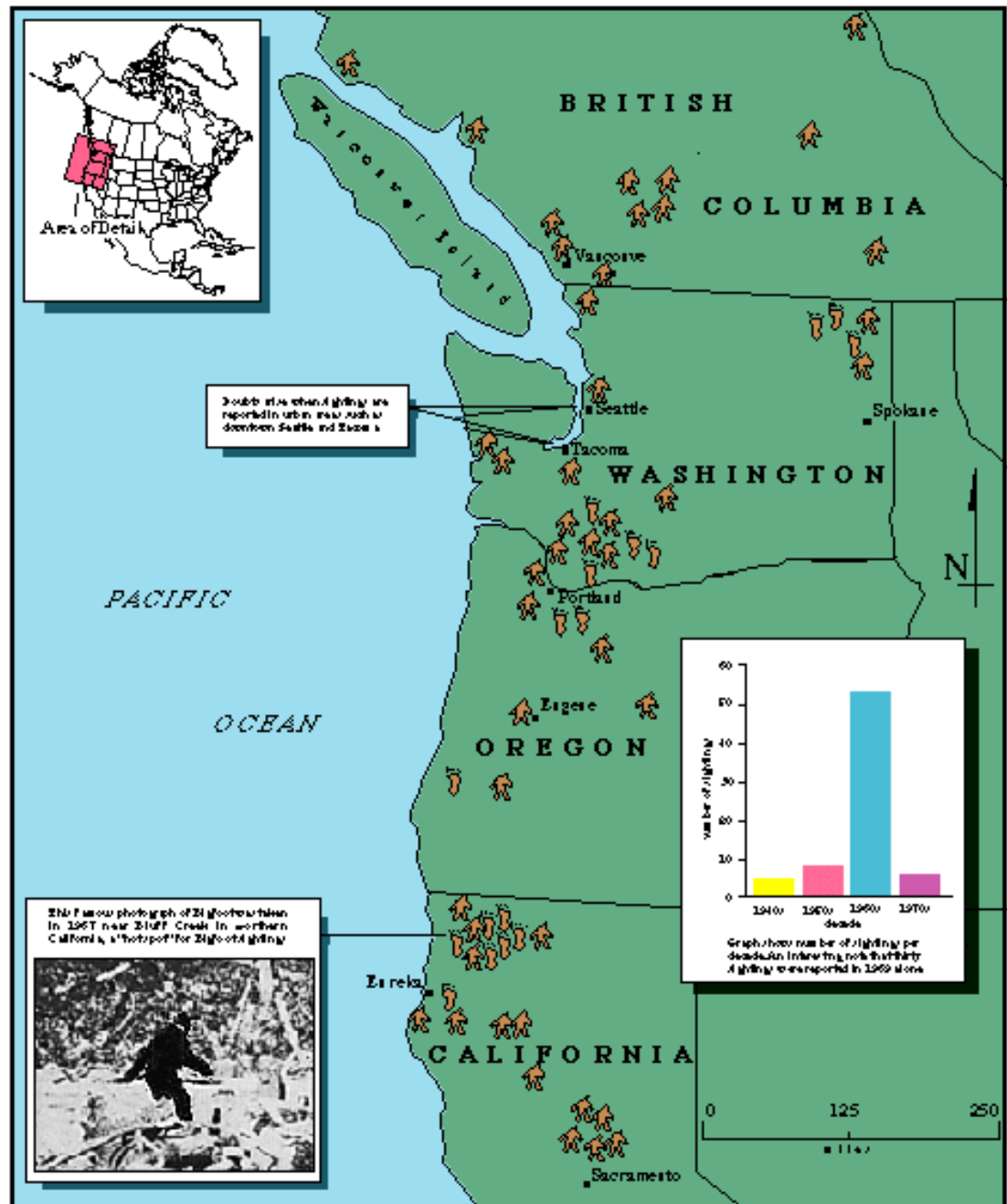
Is Bigfoot Real ?

Man has an insatiable desire for myth, legend and the supernatural. In North American folklore this desire is manifest in bigfoot, also known as Sasquatch. Other cultures such as the Tibetan people in the Himalayan mountains have

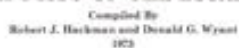
a similar legend, the Yeti, or the Abominable Snowman. Although both Bigfoot and the Yeti are different in their described characteristics, both are said to possess a human like appearance. Even if Bigfoot is never proven to exist in reality, it will forever live in folklore and legend.



This photograph is an original shot of a Bigfoot in 1967 near Bluff Creek in northern California, a hotspot for Bigfoot sightings.



This famous photograph of Bigfoot was taken in 1967 near Bluff Creek in northern California, a hotspot for Bigfoot sightings.

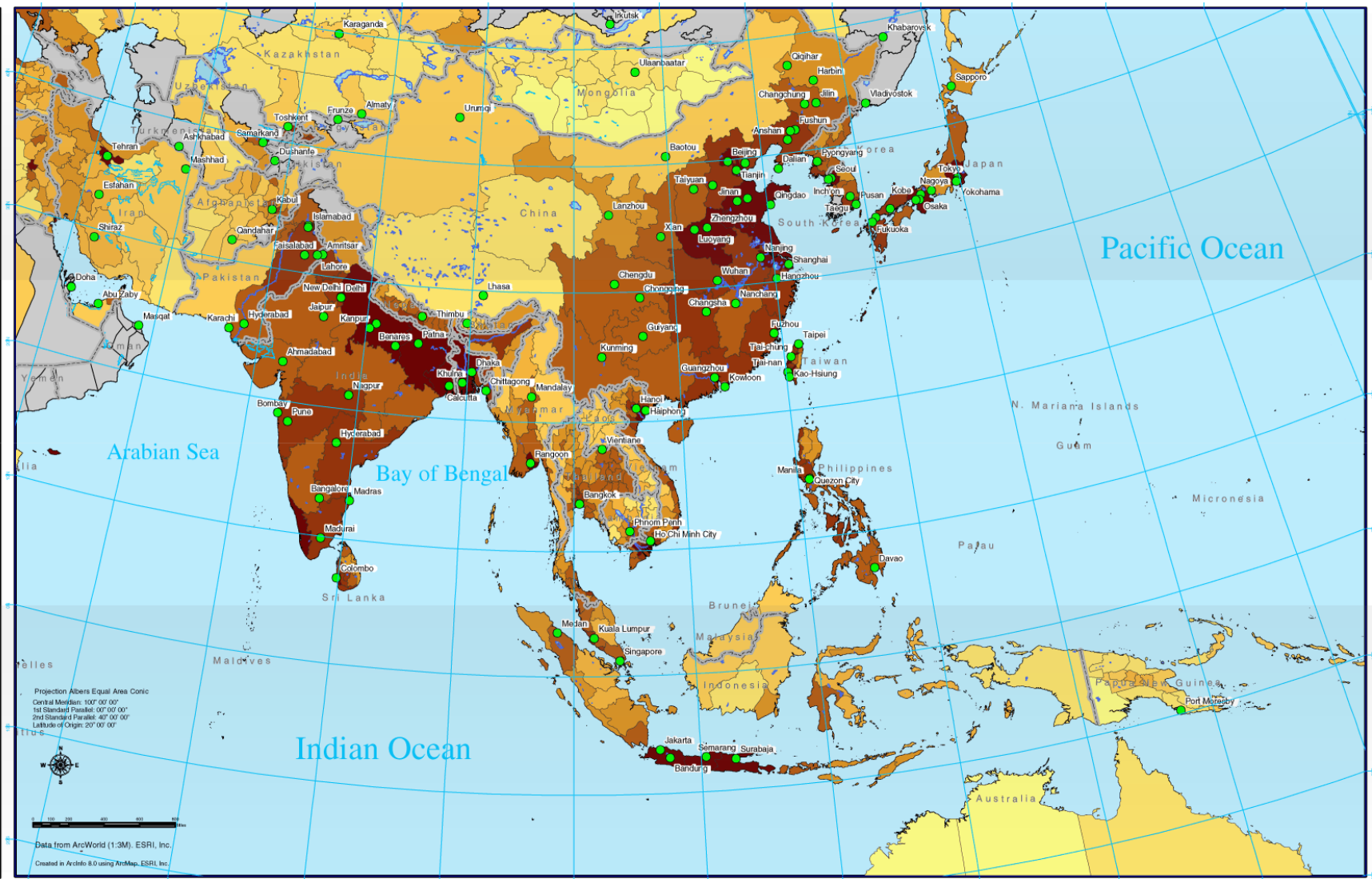


Microbreweries and Brewpubs, 1996

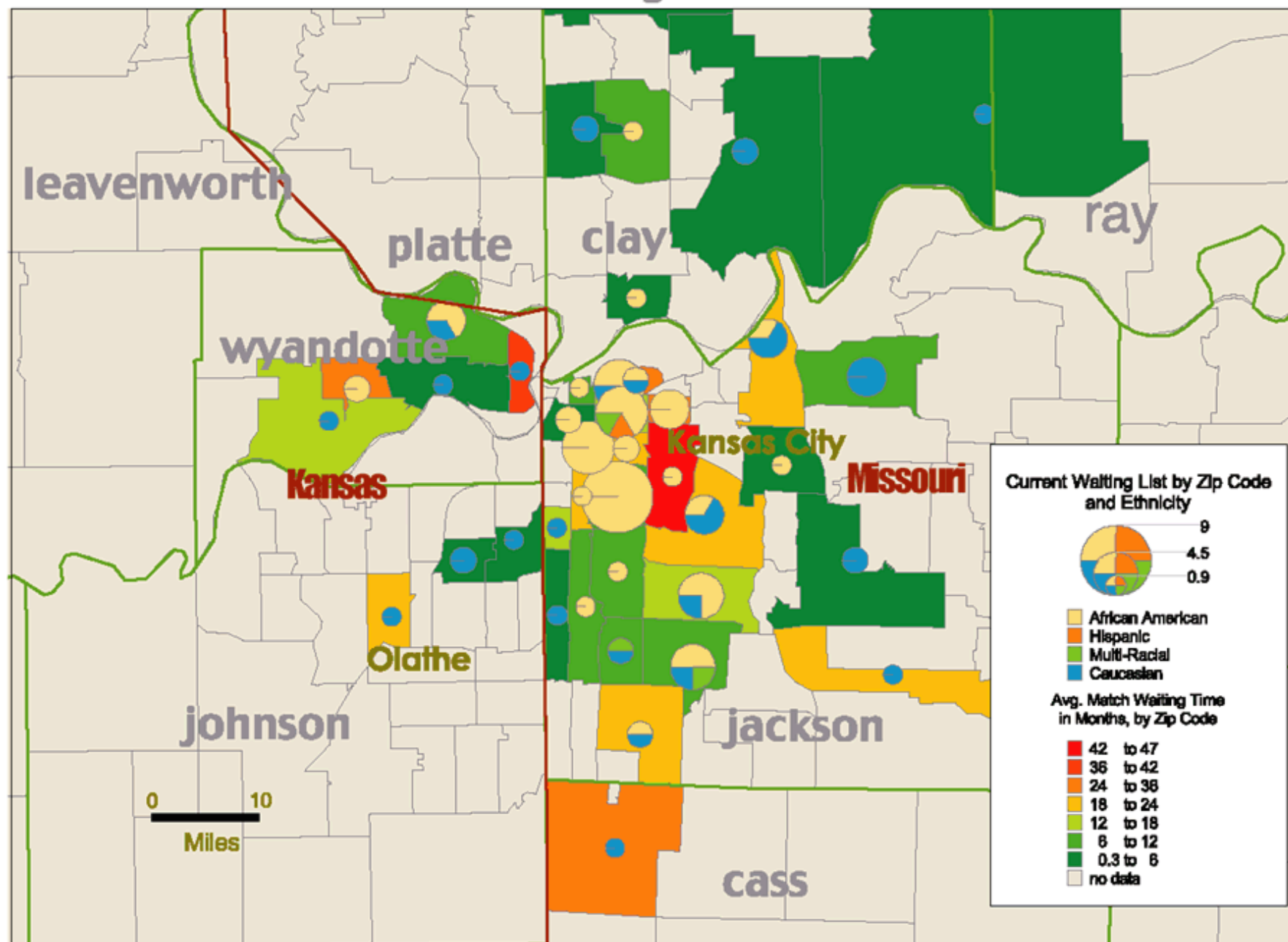


Southeast Asia

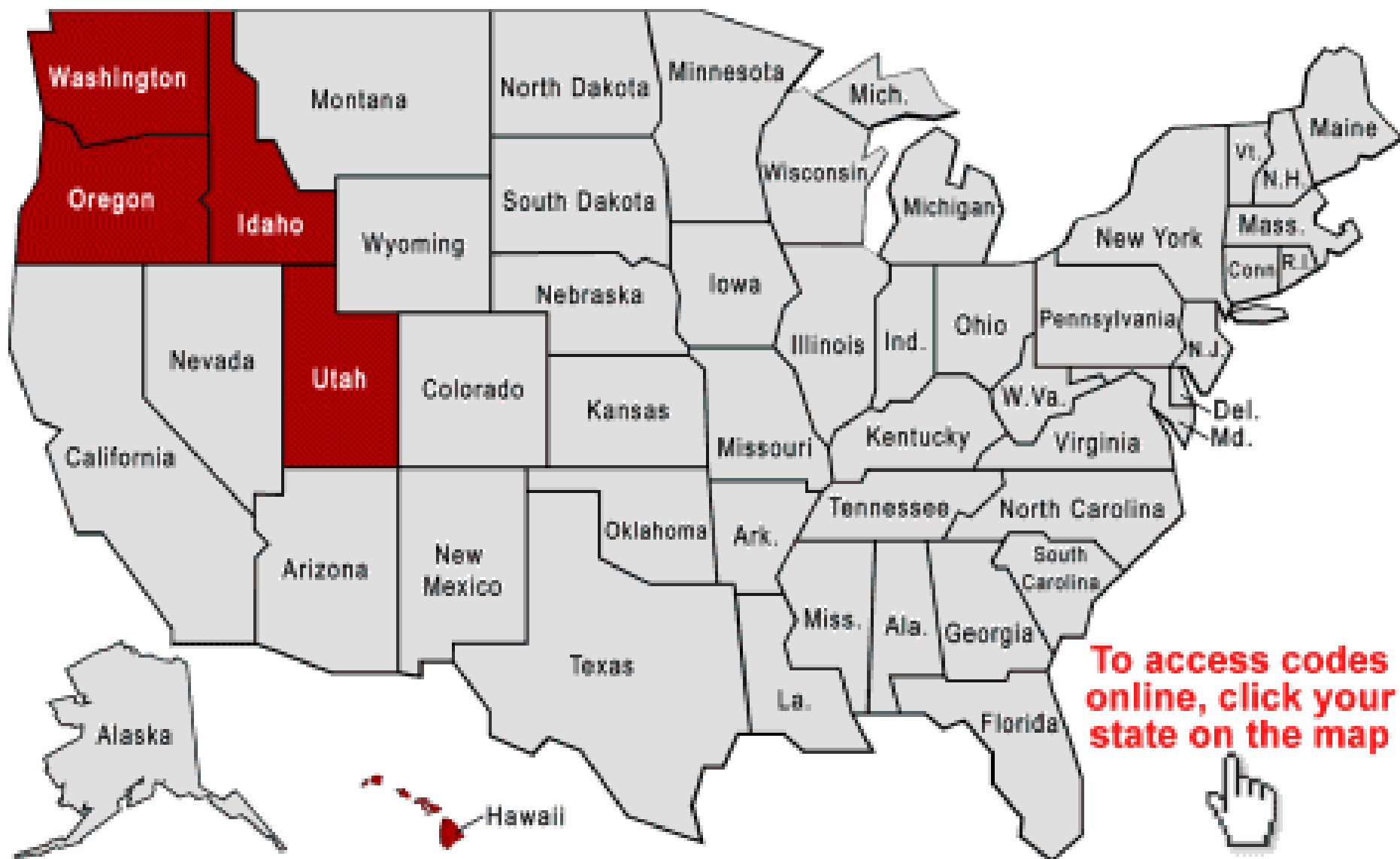
Population Distribution



Big Brothers Big Sisters of the Greater Kansas City Area Little Brother Waiting List as of March 1999







[illegible]

What is a good map?

- ◆ ...the measure of a good map is how well it conveys information to its readers to enlighten, convince, or persuade
- ◆ ...so, a “good map” is a relative thing, based mostly upon the interpretation of the viewer
- ◆ ...but...

What is a good map?

- ◆ ...the cartographer can create a map which will be accurate, current, topical, aesthetic, timely, relevant, and informative by...
- ◆ ...controlling map size, map elements, symbology, typography, use of color, and...
- ◆ ...good design

Map design process

- ◆ "The purpose of design is to focus the attention of the user."

Map design process



◆ "Know your audience"

Before you start to design, you should know...

- ◆ the final dimensions of the map
- ◆ how the map will be displayed
- ◆ the purpose of the map
- ◆ who will use the map
- ◆ who will pay for the map

Five principles of map design

1. Concept before compilation
2. Hierarchy with harmony
3. Simplicity from sacrifice
4. Maximum information at minimum cost
5. Engage emotion to engage understanding

1. "Concept before compilation"

- ◆ once concept is understood, no feature will be included which does not fit
- ◆ design the whole before the part
- ◆ design once, devise, design again

2. “Hierarchy with harmony”

- ◆ important things must look important
- ◆ “they also serve who only stand and wait”
- ◆ all the parts contribute to the whole

3. “Simplicity from sacrifice”

- ◆ great design tends toward simplicity
- ◆ map design is complete when you can take nothing else out
- ◆ content determines scale or scale determines content

4. “Maximum information at minimum cost”

- ◆ how much information can be gained from this map at a glance?
- ◆ not \$ - minimize the user investment in effort
- ◆ all designs are a compromise

5. “Engage emotion to engage understanding”

- ◆ only by feeling what the user feels can we see what the user sees
- ◆ aesthetics focuses the attention
- ◆ focusing the attention is the purpose of map design

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