Disease Data Correlator

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Motivation

- Disease control and prevention example flu alert
- Health data analysis
- Readily available dataset

Data Set

• Raw Survey Data Format:

Column	Variable	Field Length
1	_STATE	2
16	IDATE	8
88	_DIABETE2	1
94	_ASTHMA2	2

• State-wise survey data for different diseases (grouped on income, gender, race, age, education etc.)

• Behavioural risk factors (smoking, obesity etc.)

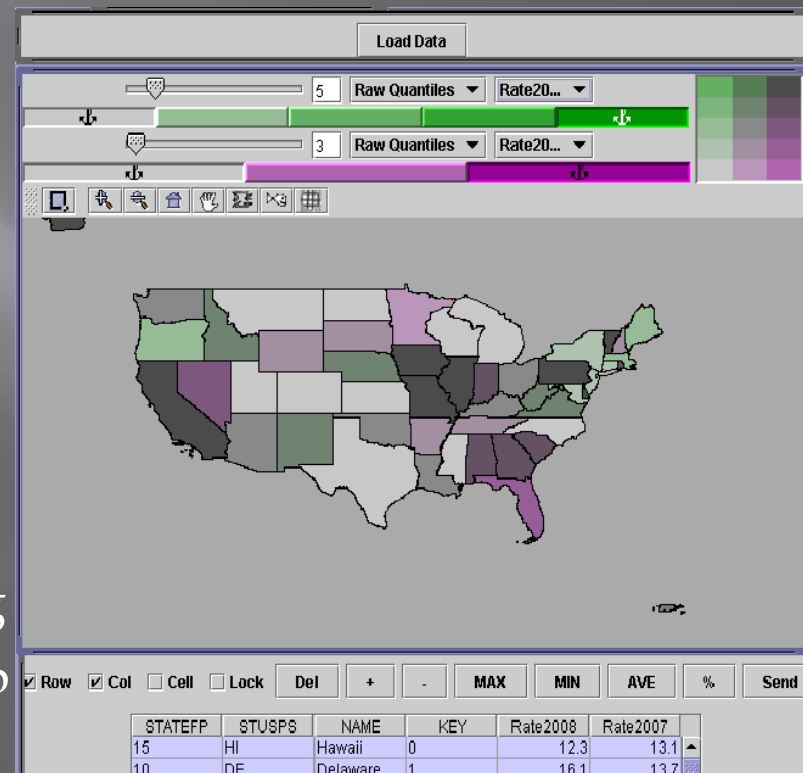• Prevalence trend (data trend over time)

Implementation Progress

Prevalence Data Map:

Initial Phase:

• .shp file format
• Map prevalence data for a particular disease

Next Phase:

• Group based prevalence data
• Interface for condition setting
• Project glyphs/charts on map
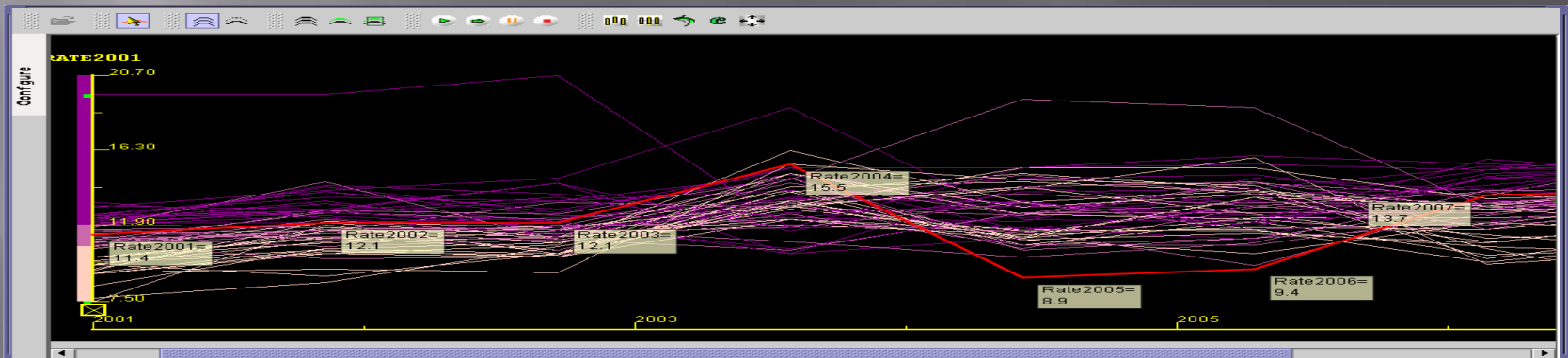
Implementation Progress

Prevalence Trend over Time:

Initial Phase:

• Trend data for a particular disease

Next Phase:

• Group based data

• GUI for condition setting (co-ordinated with other views)

Implementation Progress

Correlator:

• Provide an overview for possible data patterns

User Menus:

• For data selection, filtering and viewing options

State-wise Summary:

Details window for state-wise summary of all available data

Data Extractor:

• Convert data to statistical format and correlate to location data

Revised Project Milestone

1. Project proposal 30-Oct-09

2. Assemble data from CDC site (format as statistical data) 03-Nov-09

3. Overlay single disease demographic data 07-Nov-09

4. Demo correlation charts or graphs (details view) ~~14-Nov-09~~ 19-Nov-09

5. Project update presentation 16-Nov-09

6. Overview charts 30-Nov-09

7. Final presentation 14-Dec-09

8. Final Report 16-Dec-09

Questions?

Thank You