Trenton/Black River Production Trends and History

- **Geographic trends tied to geology**
- *Identifying fairways for future play development*
- *Identifying key wells*
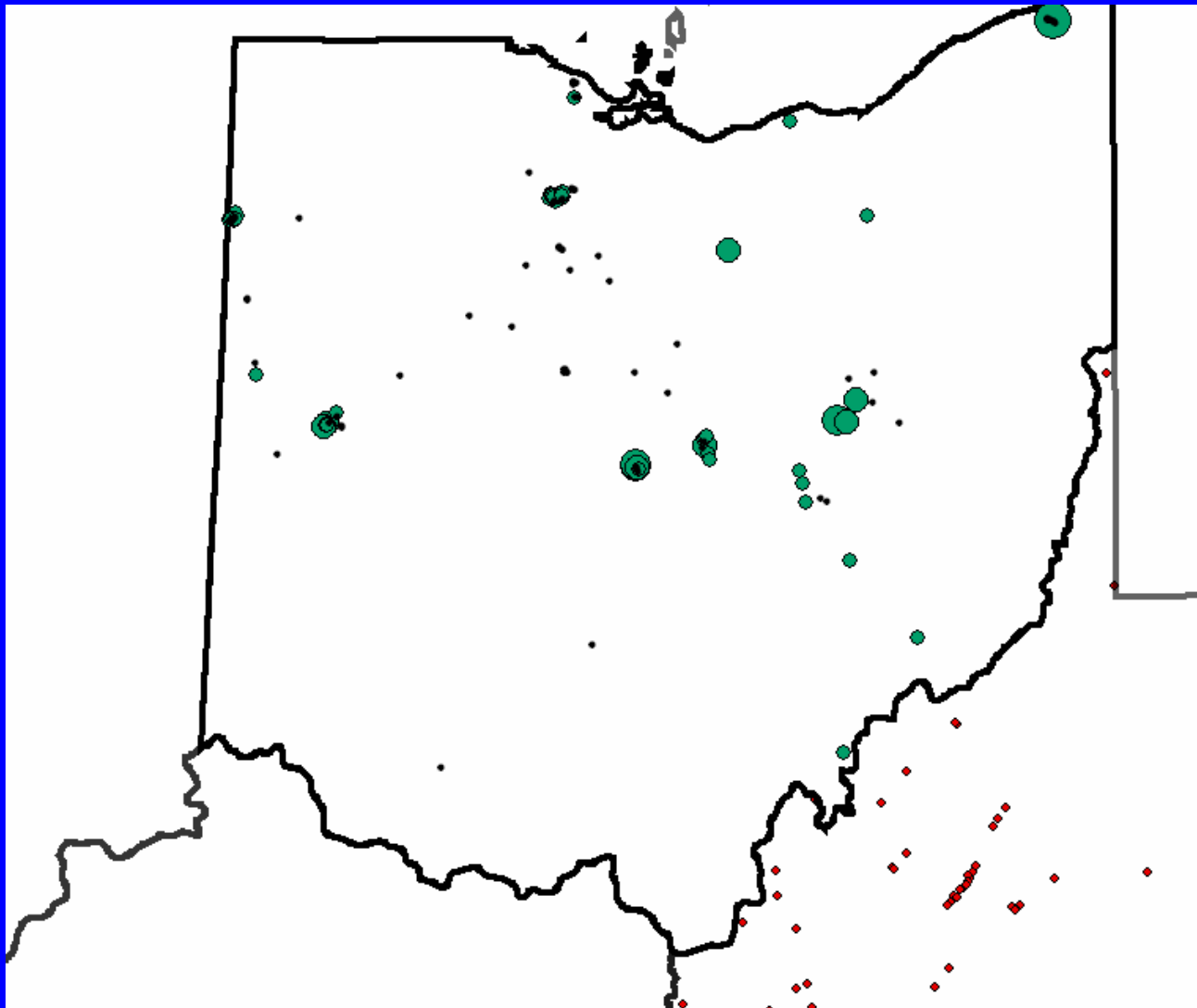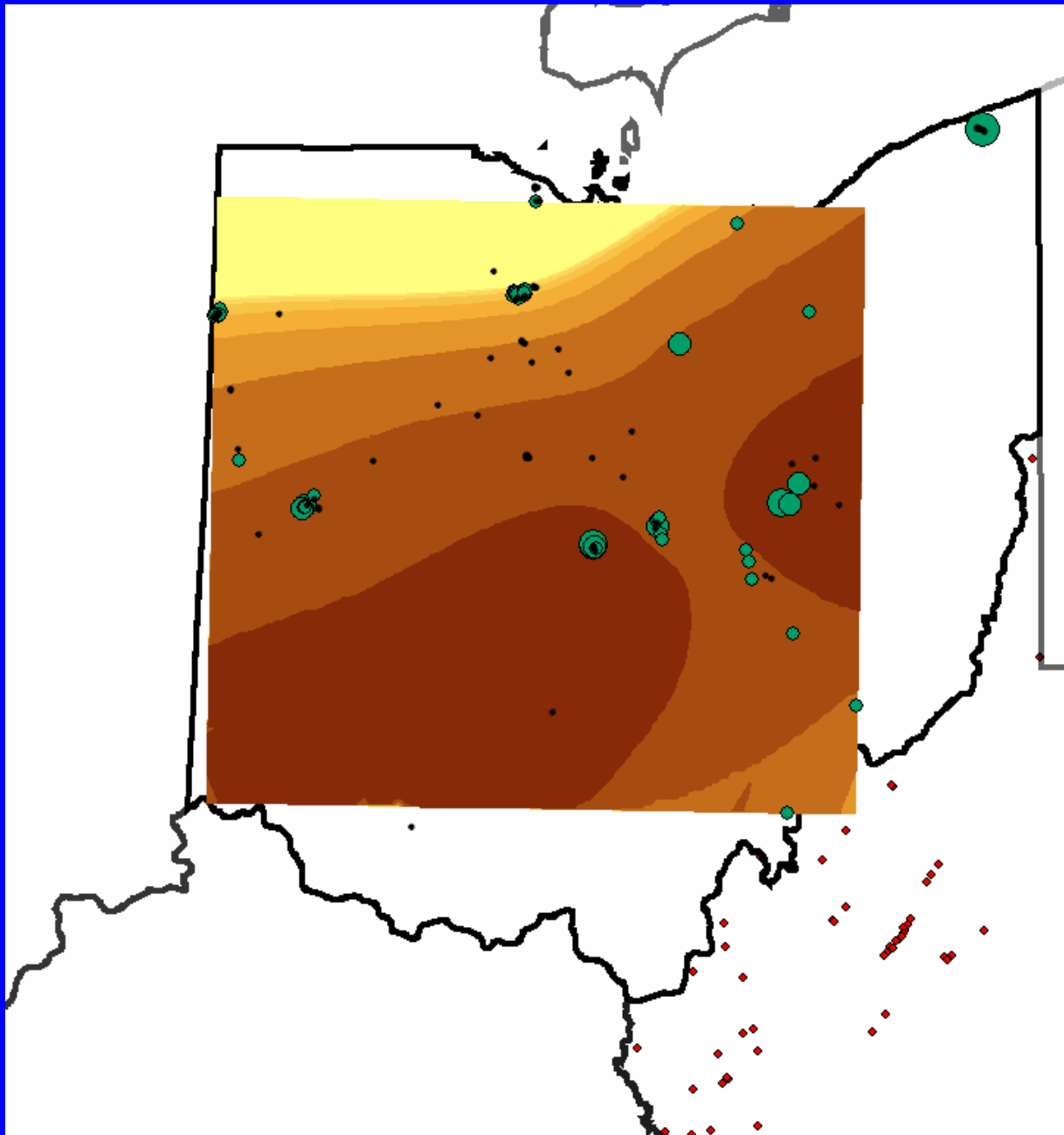- **Historical trends**
- *Resource assessment*

Current Status

- **Extensive dataset from OH,KY, NY**
- **Data from PA, WV limited**
- **Some mapping and graphing for data from OH, NY**

Geographic Trends

Trenton/ Black River Wells in Ohio

Size of Circle proportional to Cumulative Production

Trenton/Black River Wells in Ohio
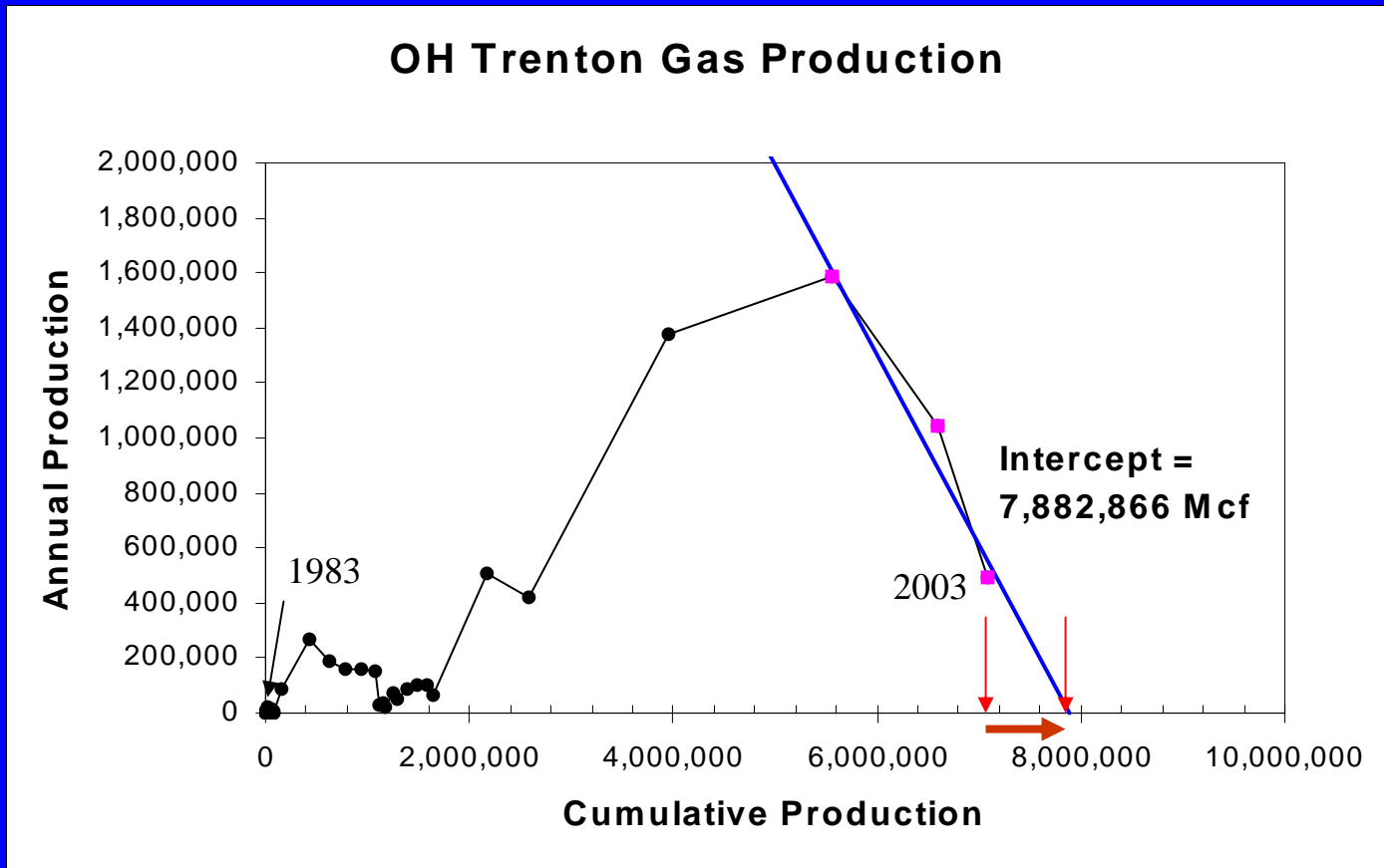
Trend Surface

Look for:

• Regional patterns that match geologic features

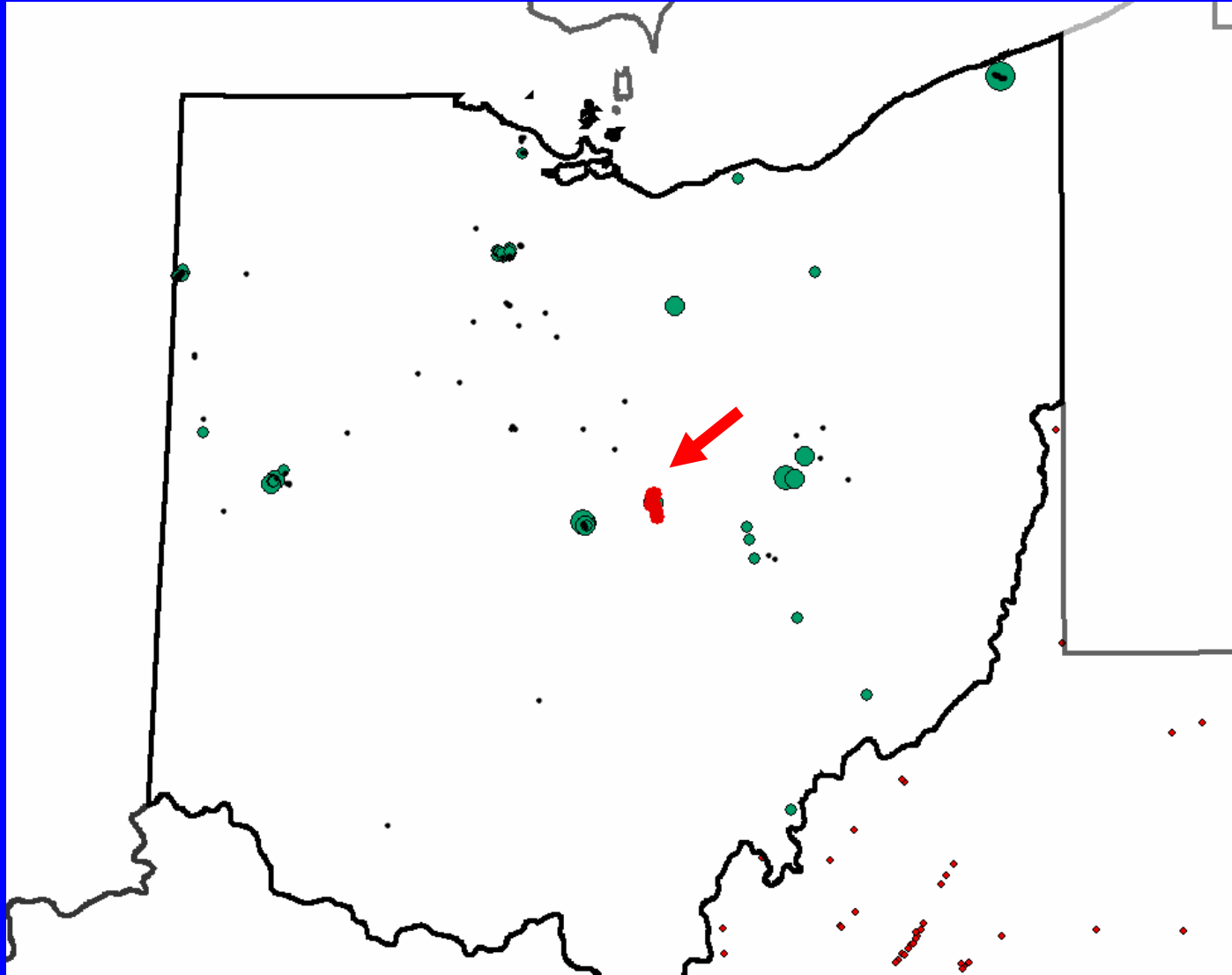**• Production "outliers" that do not fit regional trends**

History
(including Ultimate Recovery)
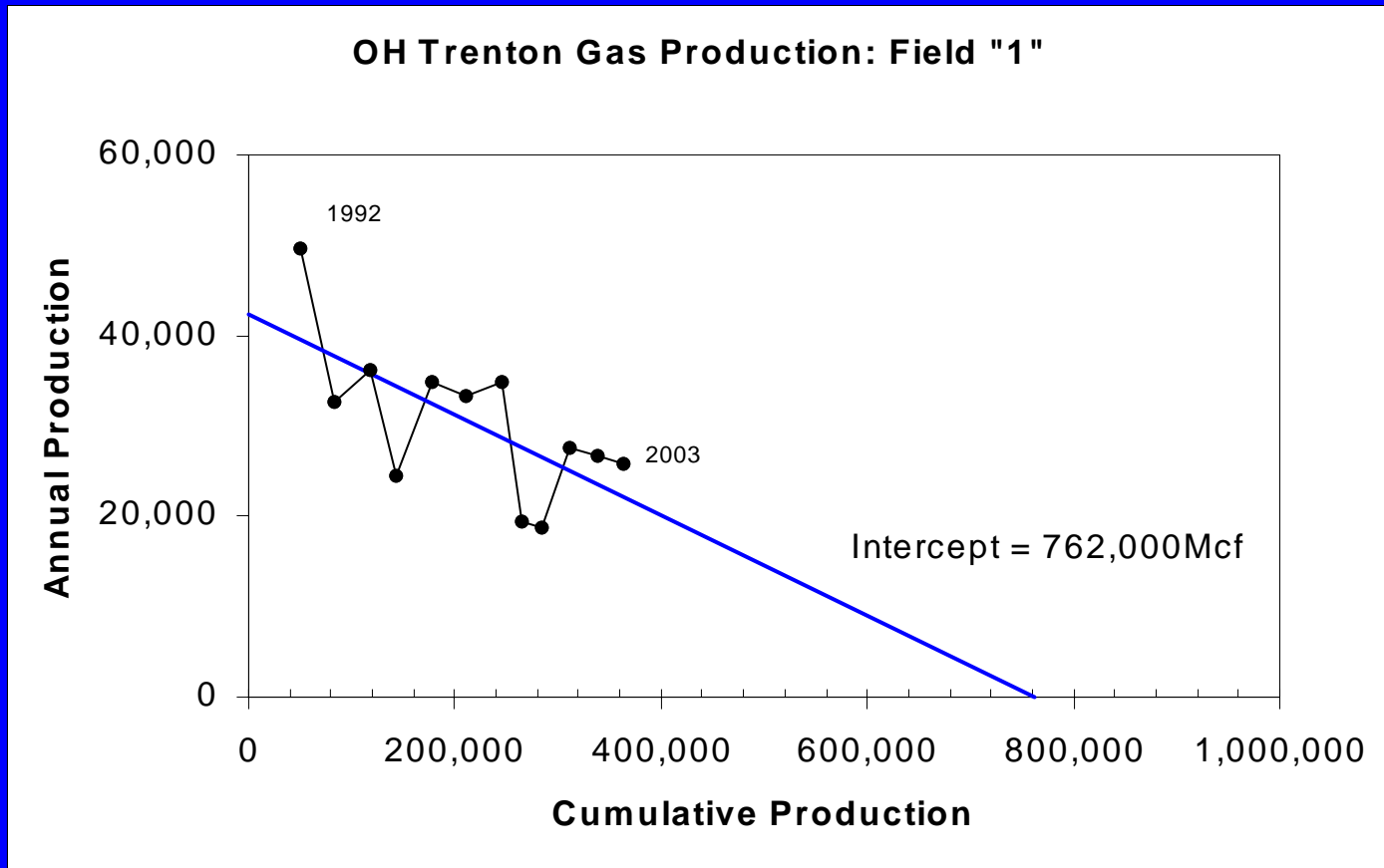
Estimating Ultimate Recovery in Ohio

Annual-Cumulative Production Graphs

OH Trenton Gas Production

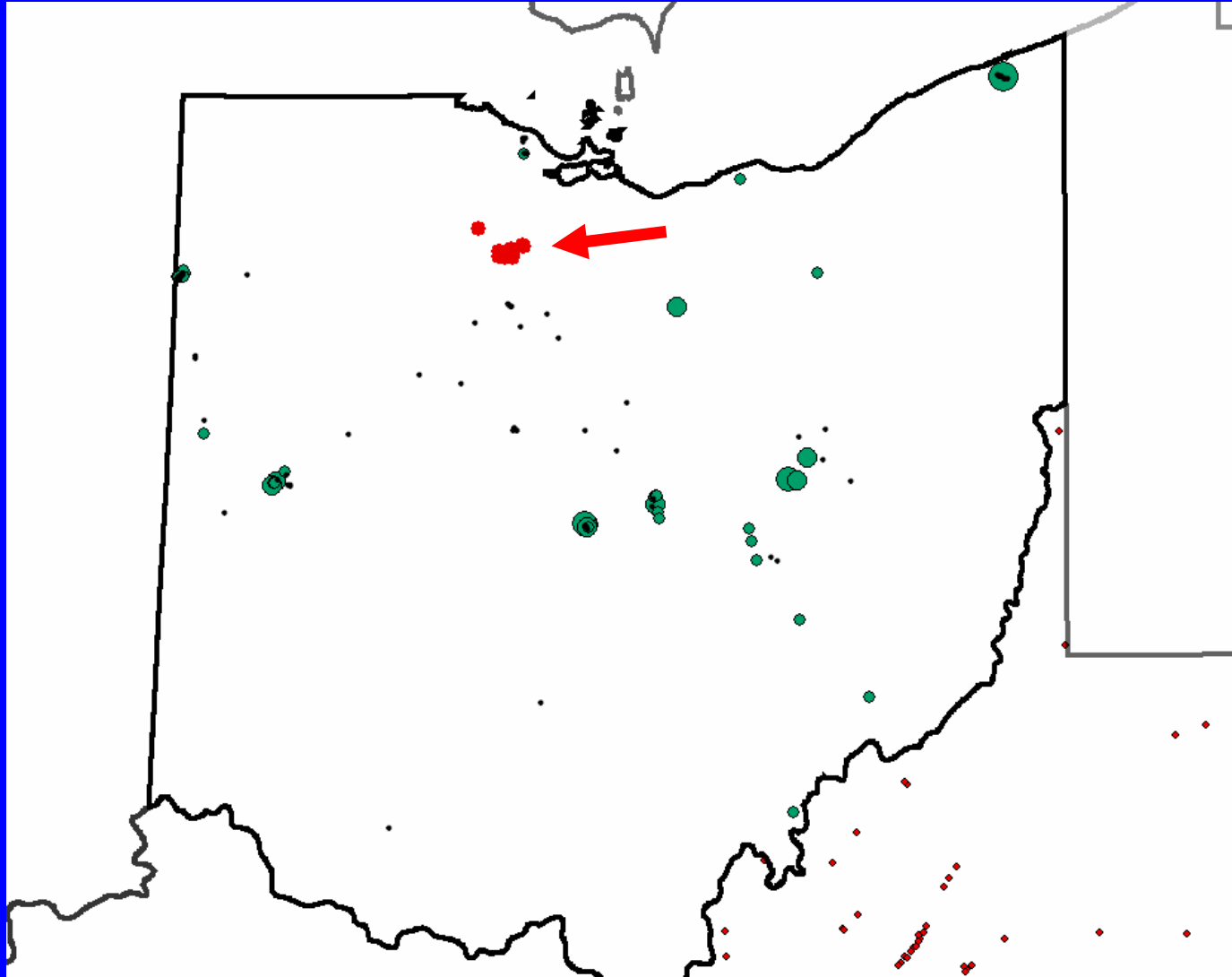Intercept = 7,882,866 Mcf
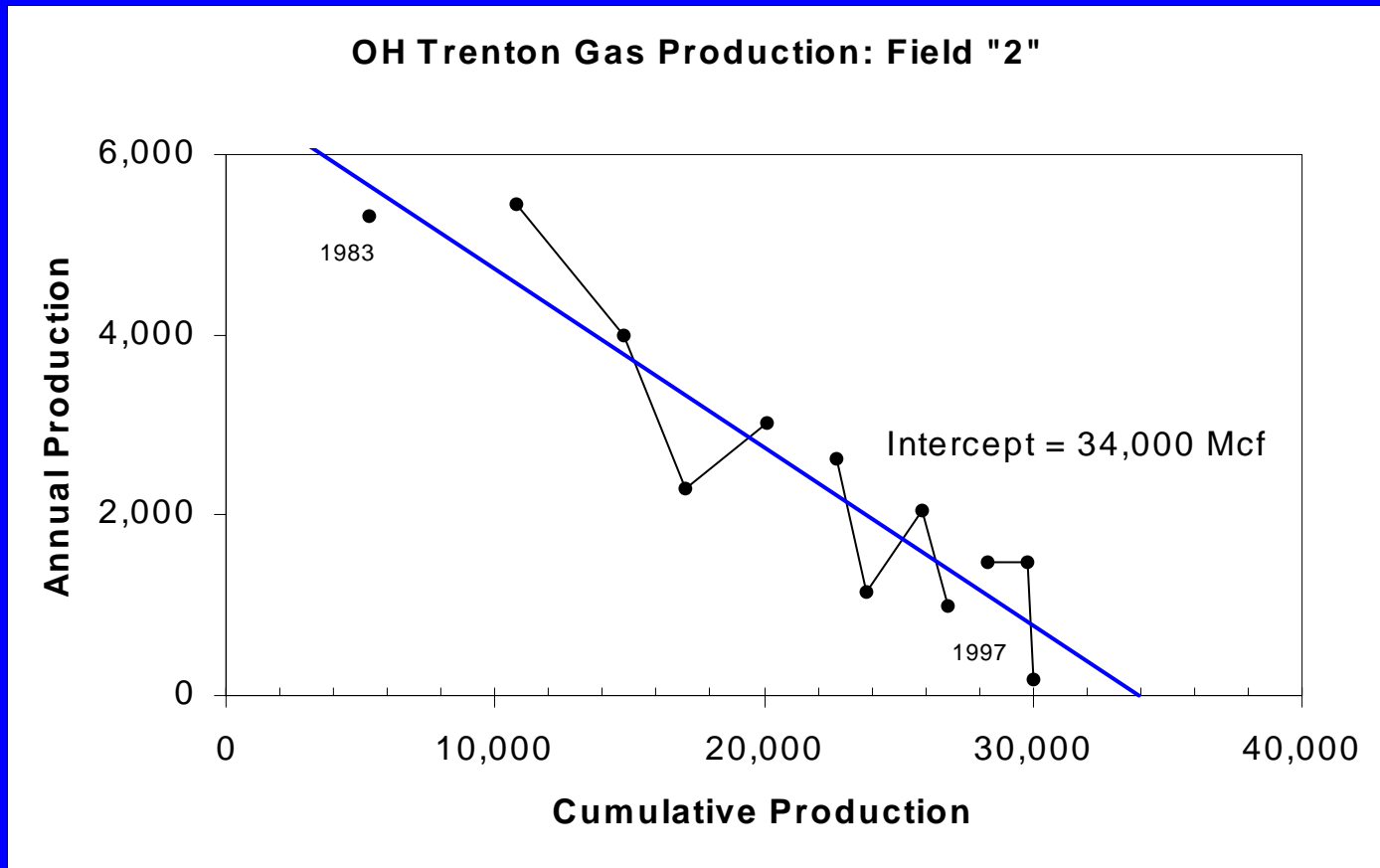
1983

2003

Estimating Ultimate Recovery in Field "1"

Estimating Ultimate Recovery in Field "1"

Estimating Ultimate Recovery in Field "2"

Estimating Ultimate Recovery in Field "2"

OH Trenton Gas Production: Field "2"

Intercept = 34,000 Mcf

Annual-Cumulative Production Graph for NY
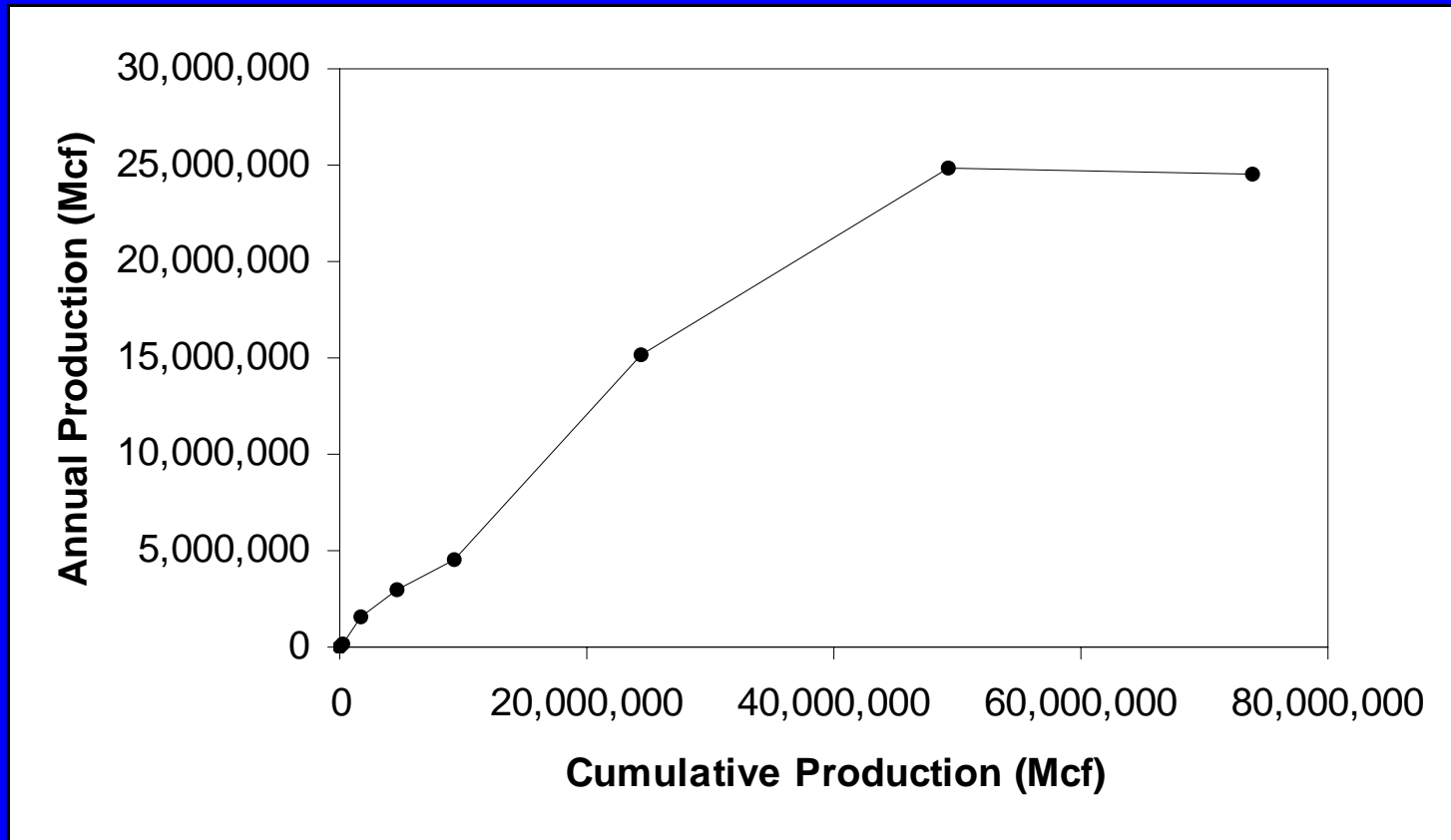
Estimating Ultimate Recovery from Annual-Cumulative Plots

- **Easy to construct,** *but*

- **Assume no new (large) field discoveries and reserve growth**

Future

- **Decide on method: meeting among interested project members, USGS, and possibly industry expert**

- **Update data obtained from states**

- **Complete resource assessment**