



Population Selection and Sampling – Wisconsin



Population Selection Decisions

- SMI/SED vs. all MH consumers
- Community-based service recipients vs. all service recipients
- Point-in-time vs. calendar year population
- Current service recipients vs. discharged service recipients



Population Selection Criteria

- Consumers with an SMI/SED
 - 52% of reported 2006 consumers have an SMI/SED
- Currently receiving services at the point in time when the sample is drawn
- Consumers in State institutes excluded
- 18 years or older for adults
- 5-17 years of age for youth



Population Data Source

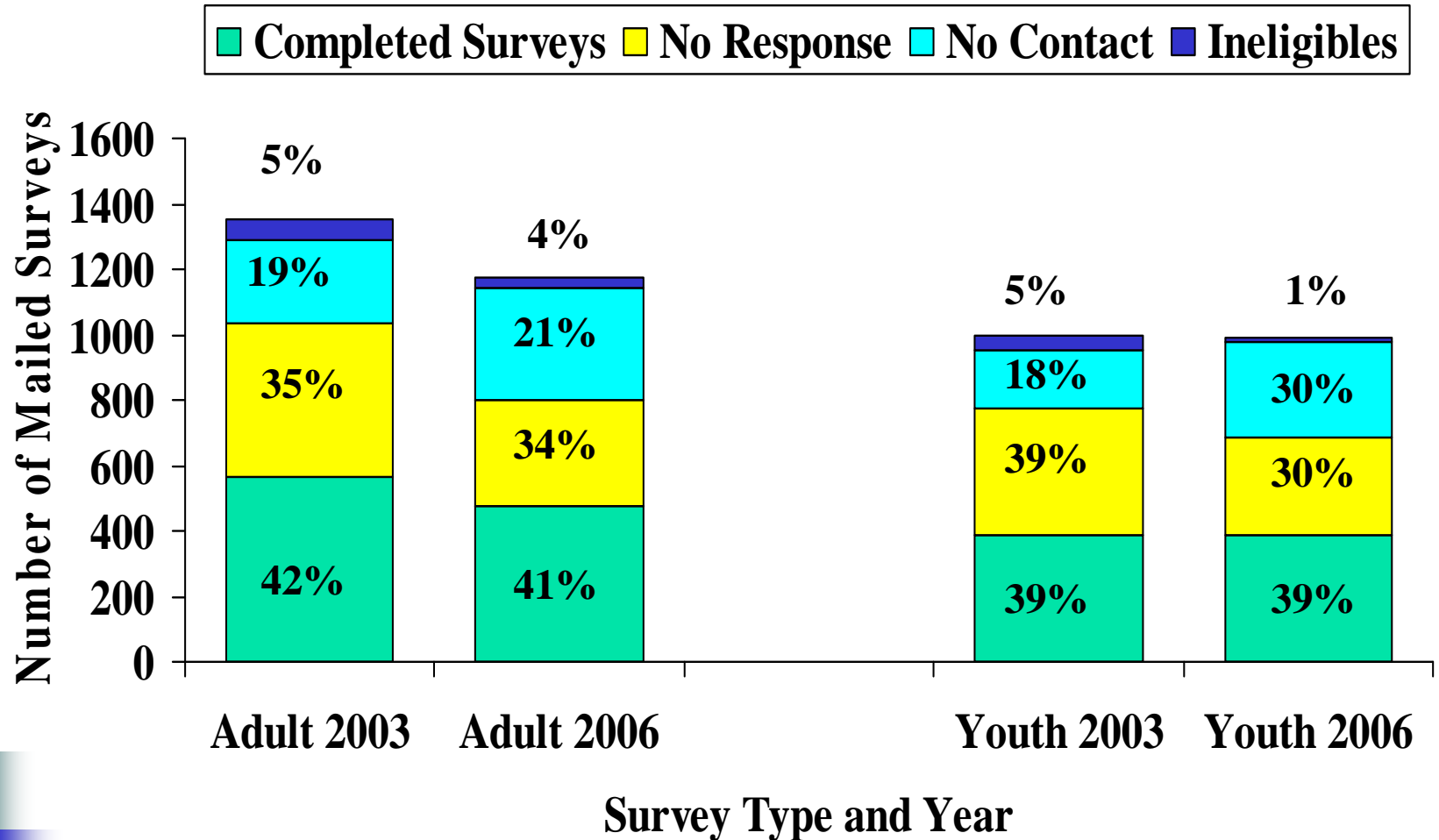
- Human Services Reporting System (HSRS) used as source of consumer sample
 - required county reporting to the State of all consumers served in public mental health system
- Potential issue:
 - Is the data source used to identify the population a reliable one?
 - Measure of HSRS reliability
 - 5,370 CSP consumers in State Medicaid data in 2006
 - 6,745 CSP consumers in State MH HSRS data in 2006 which should include MA and non-MA



Calculating sample size

- Population size = 40,850
- Sample size calculation = 381 complete surveys
 - 95% confidence level, 5% confidence interval
- <http://www.surveysystem.com/sscalc.htm>
- Calculating actual sample size needed =
 - Completed surveys
 - Ineligibles
 - Refusals and non-responses
 - Non-contacts

Sample Attrition





Random Sampling

- Use of SPSS, SAS to select random sample
- Preventing sampling or coverage error
 - Know who's drawing your sample
 - IT staff vs. research/evaluation staff
 - Be clear with the requirements for probability/random sampling
 - Equal or known nonzero probability of selection for every person in the population



Over-Sampling Racial/Ethnic Groups

- Wisconsin has pockets of diversity, but is not diverse overall (92% Caucasian)
- Over-sampling individual racial/ethnic groups
 - Increase in surveys = 3,433
 - Increase in costs = approx. \$25-30,000
- Over-sampling the non-Caucasian group
 - Increase in surveys = 1,016
 - Increase in costs = approx. \$8-9,000