Table 1. Comparing Longitudinal Primary Data and Population-Based Administrative Data

Characteristics	Longitudinal Primary Data (Panel Study in Income Dynamics)	Population-based Administrative Data (Manitoba and other sites)
Number of cases	Several thousand or smaller (5,000 households in PSID)	Often over a million
Cost	High on a per person basis	Very low on a per person basis
Representativeness	Often national	Often from a province or state
Population Studied	Subjects sampled and tracked	Built on a registry of an entire population
Research Design	Often complex designs need to increase power and control costs	Given a population, complex designs can be imposed retrospectively as needed
Record Linkage	Useful in some contexts	Critical to check data quality and expand scope of information sources
Individual Follow-up	Before and after an event	Before and after an event
Coverage and Loss to Follow-up	Nonresponse and differential attrition possible	Differential attrition possible
Updating	New data must be collected and merged with existing data	Multifile information must be cleaned and merged with existing data. Cleaning relies on record linkage
Time	Information must be collected (typically annually or at longer intervals)	Information provided at relatively short intervals (from daily to annually)
Place	Information at time of study (historical reconstruction possible)	Detailed information usually provided close to date of move
Longitudinal	Goes back many years/Corrections for immigration in PSID)	Goes back many years
Neighborhoods	Flexible construction from postal code or census area	Flexible construction from postal code or census area; large N may permit flexible assignment to generate nearest 'neighbors'
Life Events	Collected as part of design	Possibly available from registry or other source
Family and Intergenerational Data	Collected as part of design (PSID); sibling and intergenerational studies facilitated	Assessing a family composition at any point in time possible; sibling and twin studies facilitated
Limits	Important information likely to be collectable for entire sample	Important information may be missing or available only for a subpopulation
Measures	Defined by researchers; scaling possible	Defined by others for administrative purposes; creating meaningful variables may be very time-consuming; scaling possible
Intellectual History	Scope of data collection often expanded to provide a rich data set	Scope expanded beyond initial health care data by receiving files from other agencies