Using Paradata for Production Monitoring of the National Survey of Family Growth



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NSFG Cycle 7

- Cross-sectional study of people 15-44
- Cycle 7 began in June 2006
- New quarterly sample rotation schedule
 - Sample is worked for 12-week quarters
- Continuous data collection design
 - Sample areas are rotated in and out of the study each year.



Importance of Paradata for NSFG

- Understanding the work pattern of quarterly sample.
- Monitoring efficiency compared to Cycle 6.

• Given 12-week schedule, ability to make quick management decisions to change course.



Three Basic Concepts for Paradata Review

Daily and Quarterly Patterns of:

1. Effort

2. Active Sample

3. Productivity



NSFG Data Structure

Use daily incoming information on:

- 1. Interviewers
- 2. Sample segments
- 3. Housing Units
- 4. Calls
- 5. Contacts
- 6. Respondents

The NSFG Dashboard

Effort



hours



% production



calls







ratio: screener/ main calls

Active Sample

% occupied

% eligible

mean calls

% locked bldgs











% 8+ calls

% resistant





📕 mean propensity

interviews

Productivity



response rate targeting



calls/interview



hours/interview



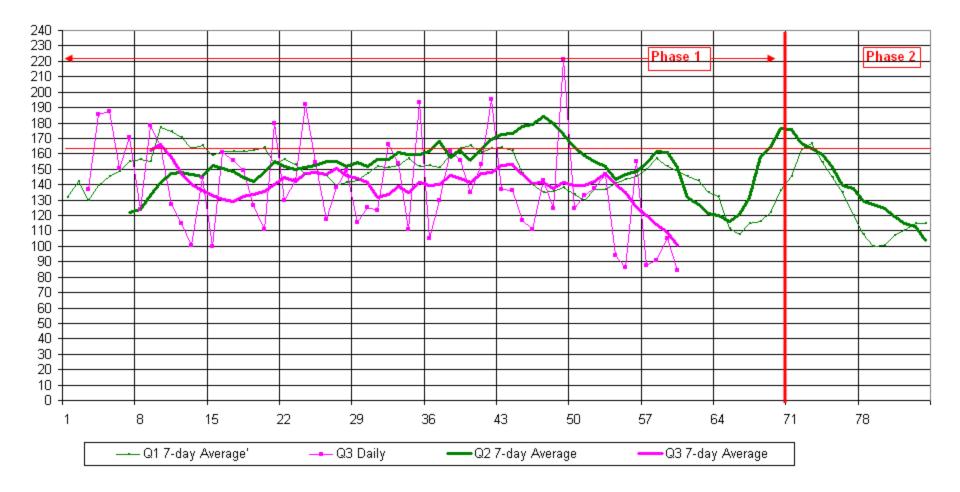
trends in key indicators



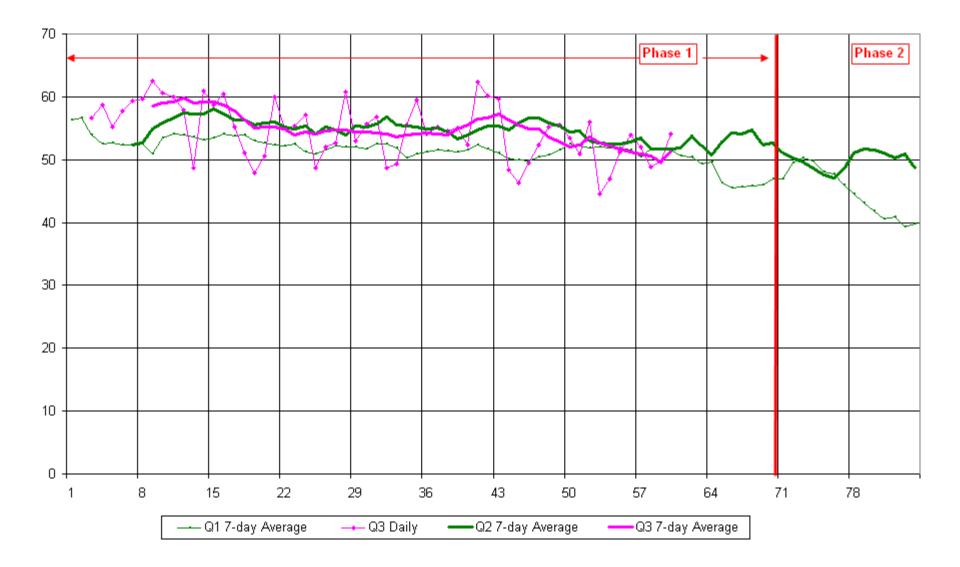
mean propensity by sexual activity judgment



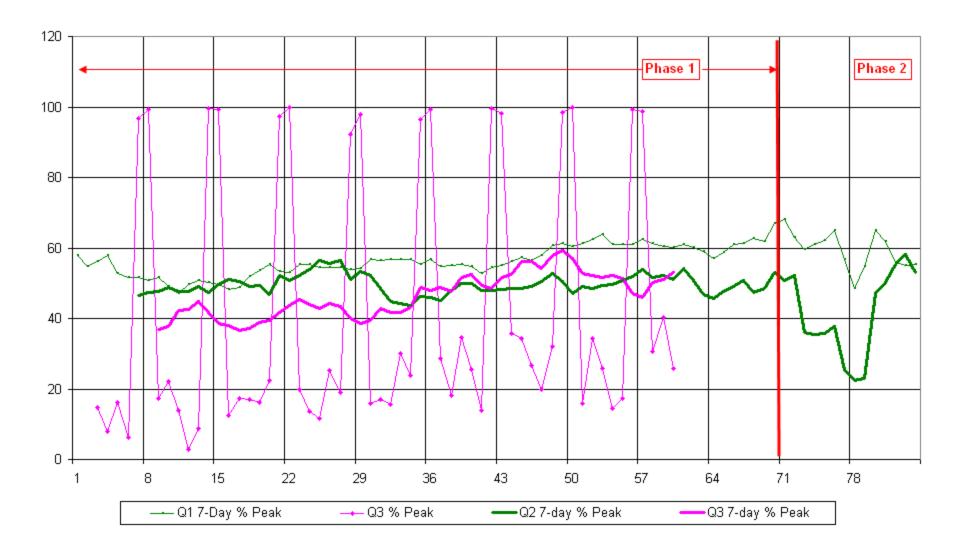
Screener, Production, Travel, and Administrative Hours Per Day of Week Ordered by Week of Study

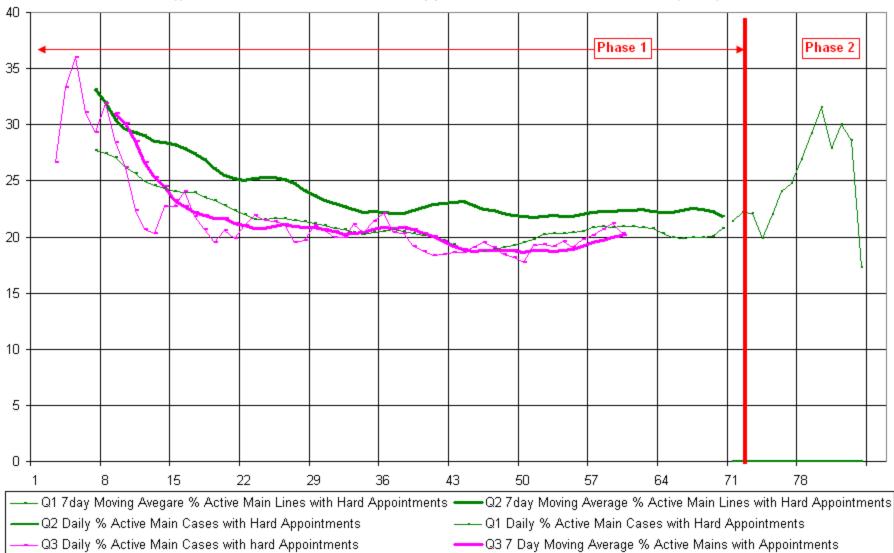


Daily and 7-day Moving Average Screener + Main Hours Percentage (non-administrative, non-travel)



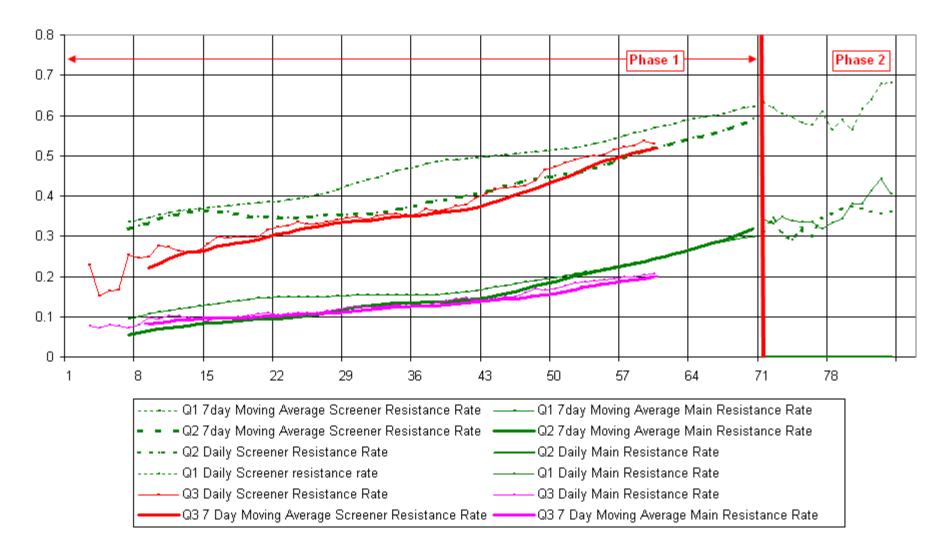
Daily and 7-day Moving Percentage of Screener+Main Calls Made During Peak Hours



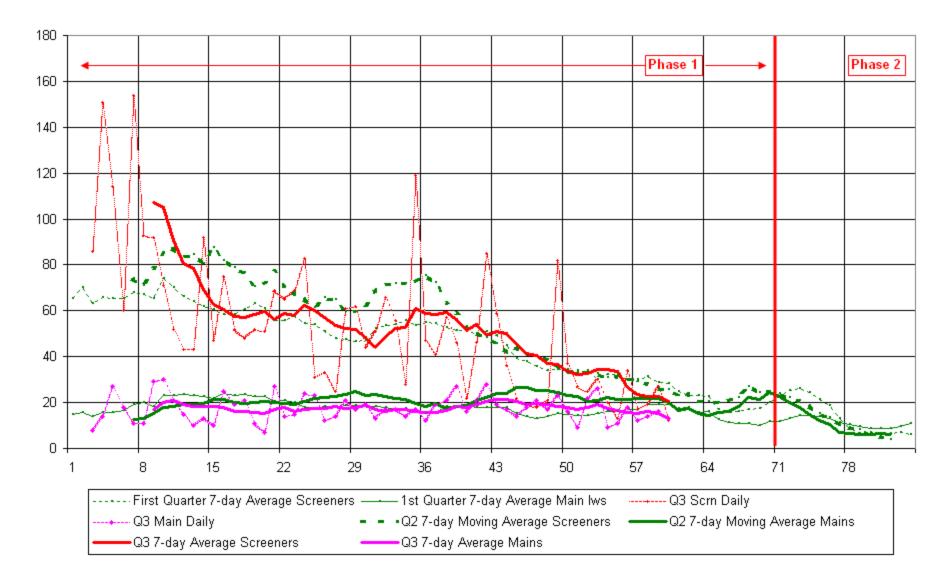


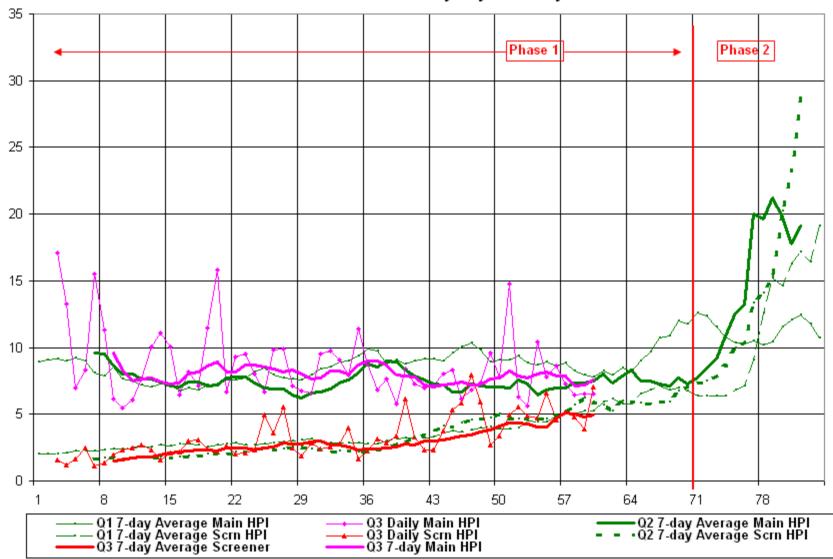
Daily Percent of Non-finalized Main Cases with Hard Appointments ((Non-finalized Mains with Hard Appointments/All Contacted Cases)*100)

Screener and Main Resistance Rate by Day (Nonfinalized Ever Resistant Screeners/All Contacted Non-finalized Cases) Nonfinalized Ever Resistant Main/All Non-finalized Cases)



Screener and Main Interviews by Day





Daily Main and Screener HPI (total hours/ total I'ws) and 7-day Moving Average Main and Screener HPI by Day of Survey



Paradata Next Steps

• Ongoing enrichment of paradata.

• Better predict ebb and flow of work each year.

• Continuous improvement of continuous interviewing.