Budgeting Interviewers

Tracking and Allocating Interviewer Time

Lisa Klein and John Stevenson





Our Research Questions

- 1. How can we best forecast staffing needs, given:
 - Seasonal variation in staff behavior.
 - Effects of up-staffing
- 2. How can we most effectively track actual costs, given:
 - New accounting system
 - Available data
 - Variety of projects
 - Need to recover administrative & other costs





Main Points

- ➤ As we have grown from small to medium sized shop, we have had to completely adapt and overhaul our budget tracking.
- ➤ This change in system has solved some problems and created some new ones.
- Discuss some of these and raise other related issues.





The UW Survey Center: Who Are We?

- An independent unit of the University of Wisconsin,
 College of Letters 7 Science
- Tightly linked to Sociology Department
- Our Clients: 70% university affiliated, 30% with the state
- Our Work: CATI interviewing, mail, web, CAPI interviewing, coding, tracking and locating
- Our Size: 70 CATI stations, achieve ~70,000 interviewing hours per year
- Our Staff: Currently 165 part-time interviewers (77% student, 23% non-student staff)





Tracking Interviewer Time

When we were a small shop...

- Interviewers tracked project hours
- Administrators calculated differentials and project hours
- Totals summed, tracked, and charged to projects





Our Accounting System

- UW Accounting System
- > Shadow Accounting System: Quickbooks
- Field Databases
- > Internal Productivity Tracking Programs:

Call data and calling production





Tracking Interviewer Time

With 150+ interviewers...

- ➤ Field staff utilizes databases tracking calling production on multiple levels (i.e. per interviewer, per day, per week, per year, etc)
- Other databases track training time, briefing time, and special projects





Productivity Tracking Programs: Call data

Project	Case ID	Type Date	Code Start	Finish	Length	Elapsed
FHS Q2 2006	2000993	GENERAL 2006-04-0			00:01:01	00:01:43
FHS Q2 2006	2000991	GENERAL 2006-04-0			00:03:00	00:00:17
FHS Q2 2006	2000001	GENERAL 2006-04-0	1 60 13:12:38	13:14:00	00:01:22	00:03:40
FHS Q2 2006	2002082	GENERAL 2006-04-0	1 82 13:00:47	13:02:57	00:02:10	00:00:06
FHS Q2 2006	2002081	GENERAL 2006-04-0	1 60 12:59:33	13:00:41	00:01:08	00:16:04
FHS Q2 2006	2000999	GENERAL 2006-04-0	1 63 12:16:00	12:17:04	00:01:04	00:03:41
FHS Q2 2006	2000998	GENERAL 2006-04-0	1 50 12:17:14	12:18:30	00:01:16	00:00:10
FHS Q2 2006	2002079	GENERAL 2006-04-0	1 01 12:18:40 °	12:38:37	00:19:57	00:00:10
FHS Q2 2006	2000988	GENERAL 2006-04-0	1 50 13:15:30 °	13:16:29	00:00:59	00:00:07
FHS Q2 2006	2000989	GENERAL 2006-04-0	1 60 13:14:11	13:15:23	00:01:12	00:00:11
FHS Q2 2006	2000981	GENERAL 2006-04-0	1 83 13:53:47	13:55:32	00:01:45	00:00:13
FHS Q2 2006	2000980	GENERAL 2006-04-0	1 60 13:57:06	13:58:12	00:01:06	00:01:34
FHS Q2 2006	2001004	GENERAL 2006-04-0	1 82 13:58:19	14:00:00	00:01:41	00:00:07
FHS Q2 2006	2001008	GENERAL 2006-04-0	1 84 13:20:34	13:27:51	00:07:17	00:00:09
FHS Q2 2006	2001007	GENERAL 2006-04-0	1 01 13:30:47	13:53:34	00:22:47	00:02:56
FHS Q2 2006	2000987	GENERAL 2006-04-0	1 60 13:16:39	13:17:48	00:01:09	00:00:10
FHS Q2 2006	2001011	GENERAL 2006-04-0	1 60 13:17:54	13:19:06	00:01:12	00:00:06
FHS Q2 2006	2001010	GENERAL 2006-04-0	1 60 13:19:13	13:20:25	00:01:12	00:00:07
WLS Sibling	463195s CC	ONVERSION 2006-04-0	1 83 00:00:00	12:12:19	12:12:19	-12:04:28
WLS Sibling	301003s CC	ONVERSION 2006-04-0	1 84 12:39:05	12:43:29	00:04:24	00:00:28





Productivity Tracking Programs: Calling Production







Great, right?

- 1. Seasonal Variation Training Hours
- 2. Seasonal Variation Hours Per Week
- 3. Seasonal Variation Supervision Ratios
- 4. Allocated Costs
- 5. Projects That Do Not Fit Model





Types of Seasonal Variation

- 1. Seasonal Variation Training Hours
- 2. Seasonal Variation Hours Per Week
- 3. Seasonal Variation Supervision Ratios





As a Result of Seasonal Variation

Nearly 80% student staff causes seasonal variations largely dependent on the academic calendar

New tracking methods attempt to capture, account for, and make use of seasonal variation data





Seasonal Variation – Training Hours

Types of Variation: New Interviewer Training Time

Month	New Interviewer
	Training Hours

January	153
February	838
June	626

July	C
July	C

September	60

October	927
---------	-----

December 285





Seasonal Variation – Training Hours

Types of Variation: New Project Briefing Time

Month	New Project			
	Briefing Hours			
January	231			
February	246			
June	316			
July	660			
September	265			
October	223			
December	95			





Seasonal Variation – Hours Per Week

Types of Variation: Interviewer Hours Worked

Month	Avg. Hours Billed per Week
_	

January 13

March 14

June 16

September 14

December 7.5





Seasonal Variation – Hours Per Week

Types of Variation: Intra-Month Variation due to Attrition and Academic Calendar Vacation

Time of Year per Week	% of Staff Working	Avg. Hours
Winter Break	47%	18.5
Spring Finals	79%	9.9
First Week of Class	68%	13.0
Thanksgiving Weeken	d 77%	7.7
Winter Finals	41%	8.0





Seasonal Variation – Supervision Ratios

Types of Variation: Fluctuation of Interviewer Staff Leads to Changes in Supervision Ratios

Average Interviewer Hours Per Shift Supervisor Hour Have varied from:

2.9 in January of 2006

6.3 in April 2006

Higher in Summer

* Note that UWSC shift supervisors have wide range of tasks.





Internal Time Allocation Databases

Interviewer Time Tracker

	Calling Time	Initial Training	1 on 1 Trainee Time	1 on 1 Trainer Time	Briefi	Refusal Avoidance	Meeti	Miscella neous	Total
					ngs		ngs		
Jan.	90.08%	2.20%	0.65%	0.65%	5.34%	1.20%	3.74%	-3.86%	100.00%
Feb.	72.46%	3.12%	7.75%	6.05%	4.96%	0.00%	0.00%	5.66%	100.00%
March	76.20%	2.29%	5.43%	4.23%	7.73%	0.38%	0.00%	3.74%	100.00%
April	71.49%	2.56%	4.68%	3.65%	1.80%	0.84%	3.27%	11.71%	100.00%
May	86.67%	2.94%	1.27%	0.99%	5.01%	1.52%	0.00%	1.60%	100.00%
June	70.31%	0.48%	3.78%	2.95%	7.54%	0.00%	2.03%	12.91%	100.00%
July	89.49%	0.00%	0.00%	0.00%	0.55%	0.00%	0.00%	9.96%	100.00%
Aug.	92.93%	0.00%	0.00%	0.00%	4.88%	0.00%	0.00%	2.19%	100.00%
Sept.	71.57%	1.28%	0.00%	0.00%	5.67%	0.00%	2.99%	18.49%	100.00%
Oct.	65.82%	3.25%	9.43%	7.35%	4.09%	0.00%	0.00%	10.06%	100.00%
Nov.	72.56%	2.37%	6.75%	5.26%	3.25%	0.00%	0.00%	9.81%	100.00%
Dec.	83.79%	0.00%	4.20%	3.27%	2.49%	0.00%	0.00%	6.25%	100.00%
Avg.	78.61%	1.71%	3.66%	2.87%	4.44%	0.33%	1.00%	7.38%	





Effects of Seasonal Variation

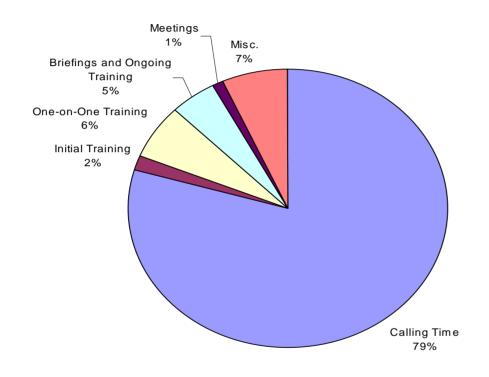
- ➤ Budget estimates for the same project at different times of the year will be different (i.e. certain times of the year are more cost-effective than others)
- Fewer interviewer hours at certain times of the year makes supervisory costs more expensive seasonally
- What do we get for our money?
 - Scheduled time v. paid time v. calling time fluctuates seasonally
 - Budgeting additional time for training and briefings changes seasonally





Interviewer Time Allocation, 2005

Tracking Interviewer Time, January-December 2005









Challenges to Tracking and Budgeting

- 4. Allocated Costs
- 5. Projects That Do Not Fit Model





Allocated Costs

Allocated Supervisory Staff Costs

- Supervisors
- Shift leaders
- Director of Field Operations

Allocated Administrative Costs

- Business Office
- Hiring & Staffing
- Misc. Supplies
- Shared Operating Expenses





Projects That Do Not Fit the Model

Some types of projects are not captured too well by our production tools:

- CAPI Studies
- Data Entry
- Mail Surveys
- > FG's
- And variance among types of phone surveys





Tasks That do Not Fit The Model

Some types of tasks are not captured too well by our production tools:

- > Instrument debugging
- > Tracking
- FG Recruiting
- ➤ Data Entry
- Other odd tasks





What Works Well

- Tracking the old way was much too labor intensive.
- Interviewer reports also had errors.
- We have better institutional data.
- We collect meta-data to examine calling.
- Linking of production and budget data.
- Easier to evaluate project budgets.
- New system is flexible; we continuously improve both field and budget tracking tools.





We Would Like to Hear More About...

- > Offering different calling strategies & plans
- > Budgeting different calling strategies & plans
- Optimal vs. realistic interviewer productivity levels





Appendix A: Alltime, Calltime, and Billed Time

- Billed Time= Total amount of time interviewers are paid to work
- > Alltime= Time Spent in and Between Calls
- > Calltime= Time Spent in Calls





Appendix A: Alltime, Calltime, and Billed Time

	Billed	Alltime	Alltime/Billed	Calltime	Calltime/Billed	Calltime/Alltime
January	4,328.55	3899.1	90.08%	2957.6	68.33%	75.85%
February	4,953.25	3589.3	72.46%	2561.8	51.72%	71.37%
March	5,307.05	4043.8	76.20%	2731.1	51.46%	67.54%
April	6,242.75	4462.8	71.49%	3223.7	51.64%	72.23%
May	6,296.30	5457.3	86.67%	4173.1	66.28%	76.47%
June	8,679.85	6102.40	70.31%	4709.8	54.26%	77.18%
July	7,103.25	6357.00	89.49%	4380.2	61.66%	68.90%
August	6,009.75	5584.70	92.93%	4323.6	71.94%	77.42%
September	4,681.70	3350.80	71.57%	2601.2	55.56%	77.63%
October	4,624.15	3043.50	65.82%	2490.1	53.85%	81.82%
November	5,097.95	3699.20	72.56%	2947.5	57.82%	79.68%
December	3,810.95	3193.10	83.79%	2579.9	67.70%	80.80%
Total	67,135.50	52,783.00		39,679.60		
Average	5,594.63	4,398.58	78.61%	3,306.63	59.35%	75.57%





Appendix B: Shift Supervisory Staff Responsibilities

- 1. Handling inbound calls from...
- respondents wanting to complete an interview, voice concerns about a study, or ask questions about our research.
- interviewers needing to make schedule changes.
- clients or respondents needing to be transferred to different departments.
- 2. **Handling schedule requests**, such as vacation and temporary shift changes, from interviewers (including approving, processing, and filing such requests).
- 3. **Designating interviewer assignments** according to current field priorities and sample availability.





Appendix B: Shift Supervisory Staff Responsibilities

- 4. **Providing ongoing training** to experienced interviewers, including developing and implementing seminars to certify experienced interviewers as trainers of new interviewers.
- 5. **Providing updated information to interviewers** regarding changes in field protocols through coordination and distribution of memos.
- 6. Managing study sample by finalizing ineligible and nonparticipation cases, releasing held and refused cases, and ensuring that cases receive an appropriate number of call attempts and refusal conversion attempts.





Appendix B: Shift Supervisory Staff Responsibilities

- 7. **Providing on-shift supervision** of interviewers by answering questions, monitoring interviewer productivity and following up with interviewers, documenting personnel problems, monitoring interviewer calling rates.
- 8. **Monitoring** data quality through our remote silent-entry monitoring system, evaluating interviewer performance, documenting performance, and having follow-up conversations regarding the monitoring.
- 9. **Completing the training of new interviewers** by conducting a mock interview and evaluation prior to allowing interviewers to call independently.
- 10. **Processing interviewer resignations** by ensuring that the necessary paperwork is completed, and notifying appropriate staff.



Appendix C: Current Interviewer Training Time

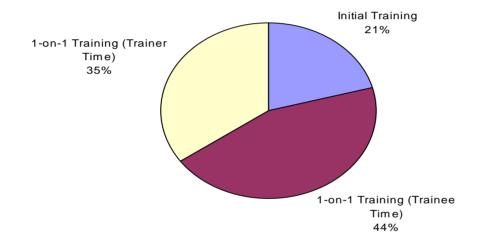
- Initial New Interviewer Training: 6 hours
- One-on-one Training (and Trainers): 12 hours per interviewer
- Project-Specific Briefings
- Refusal Avoidance and Conversion Seminars





Appendix C: New Interviewer Training Time, 2005

New Interviewer Training Time



■ Initial Training

■ 1-on-1 Training (Trainee Time)

□ 1-on-1 Training (Trainer Time)





Budgeting Interviewers

Questions?

John Stevenson: stevenso@ssc.wisc.edu

Lisa Klein: lklein@ssc.wisc.edu





Training Productivity and Modifications

- Maximizing Training Returns
- Balancing Cost of Turnover
- Utilizing New Technologies: Digitally Recorded Interviews
- Condensing Training Time and Costs





Other Factors in Improving Efficiency

- Increasing Dialing- Calling Productivity
- Supervision Ratios
- Hours per Interviewer Commitments (Minimum Hours Requirements)



