Evaluating Mode Sequence When Email is used as the Initial Contact in Establishment Surveys

> Josh Langeland U.S. Bureau of Labor Statistics Fifth International Workshop on Business Data Collection Methodology September 2018



Disclaimer

The opinions expressed in this presentation reflect the views of the author, and not necessarily those of the Bureau of Labor Statistics



Motivation

- Survey costs are up, budgets are not
- Additional effort is required to maintain response rates
- Two Experiments
 - Email vs Paper mail invitations (production)
 - Mode sequence Email augmented with paper at different contact attempts (non-production)
 - Save money
 - Increase or maintain response rates
 - Increase electronic reporting



Motivation

Cost

Sample 200,000 units twice per year

- ▶\$1.44 (€1.23) to mail survey forms
- ▶\$0.73 (€0.62) to mail letters

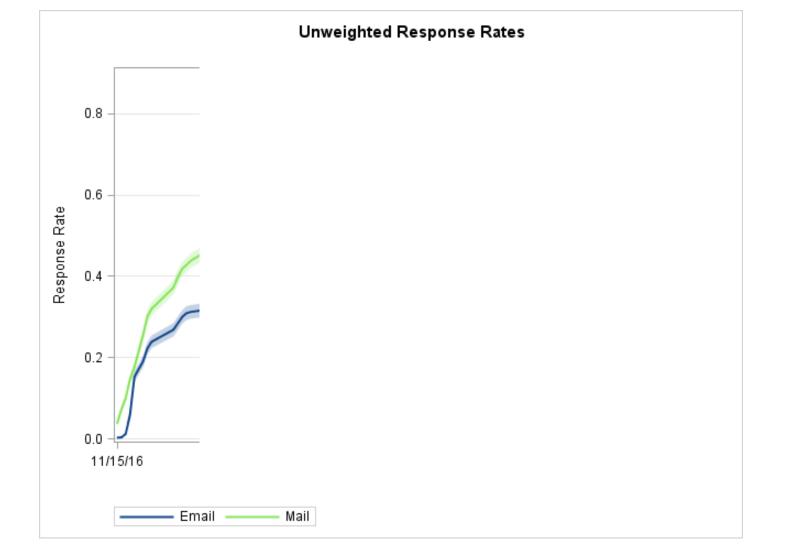


Experiment 1: Email vs Mail Invitations

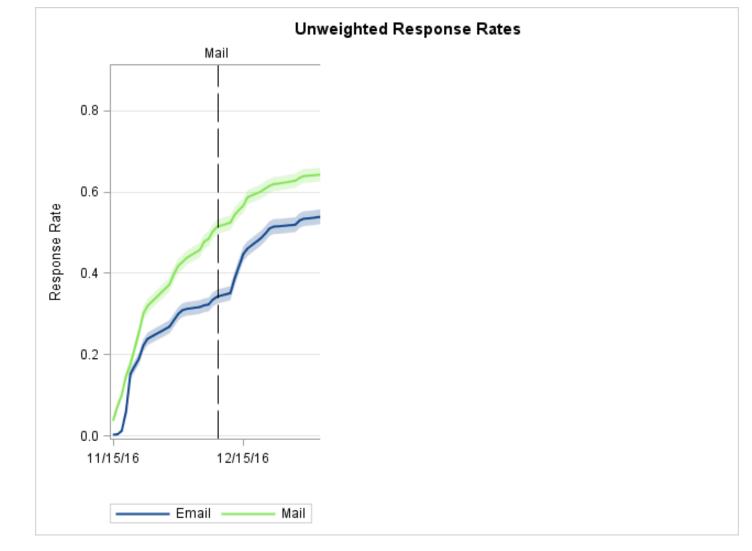


Initial survey invitation sent through mail or Email
The six follow-ups were sent to all units

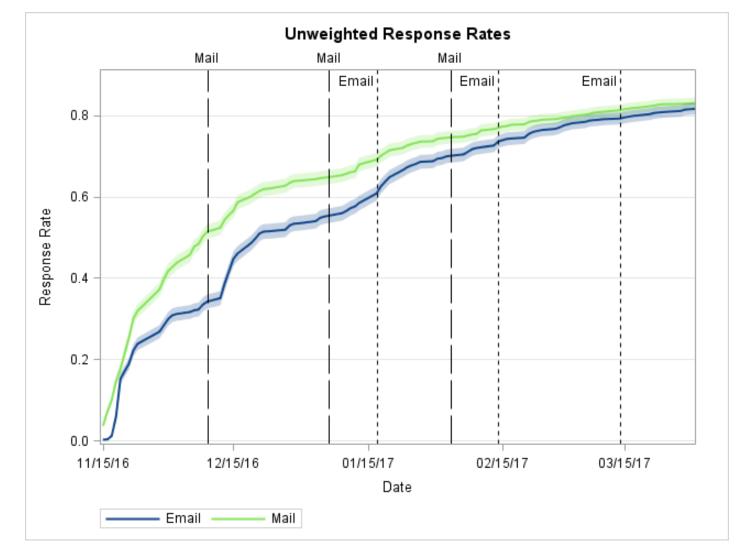




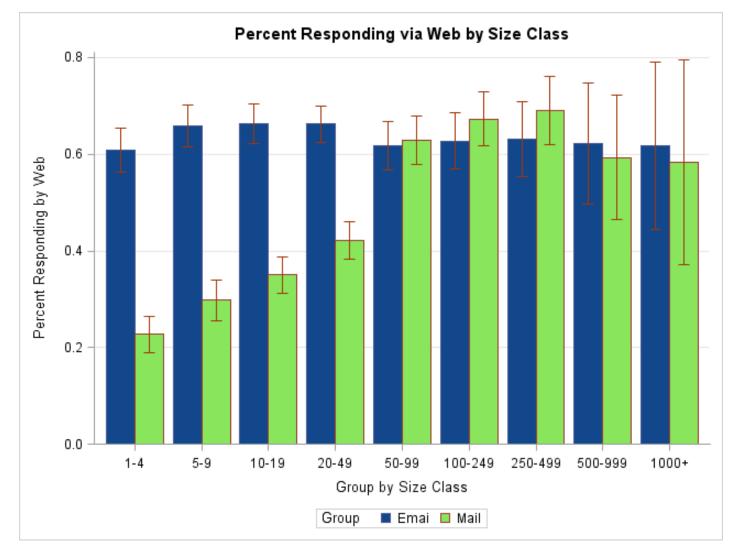








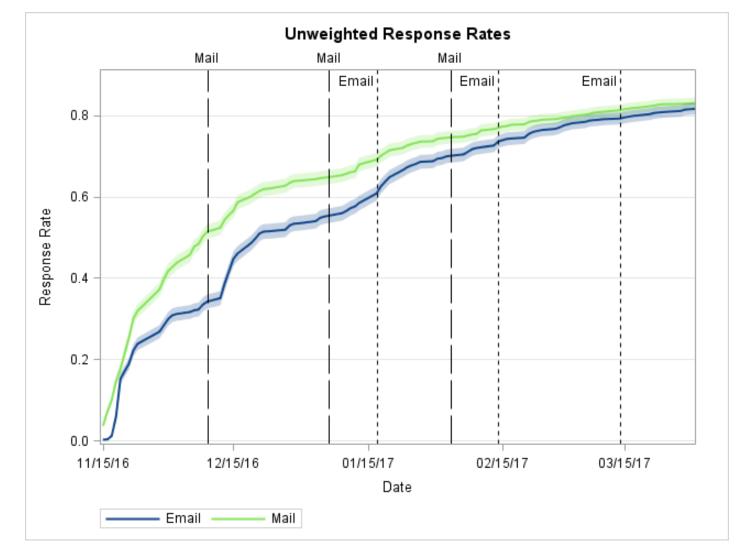






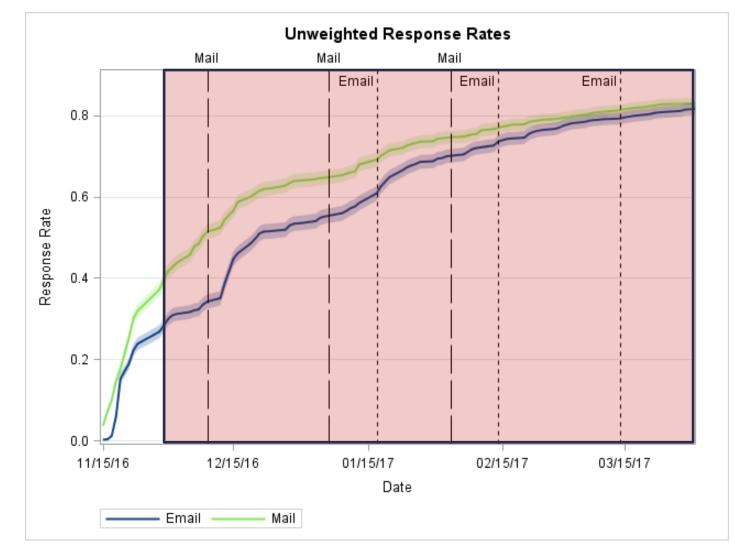
- Units that received initial Email invitation:
 - Achieved an equivalent response rate
 - Were more likely to respond online
 - Responded at a slower pace
 - Were cheaper to collect per response



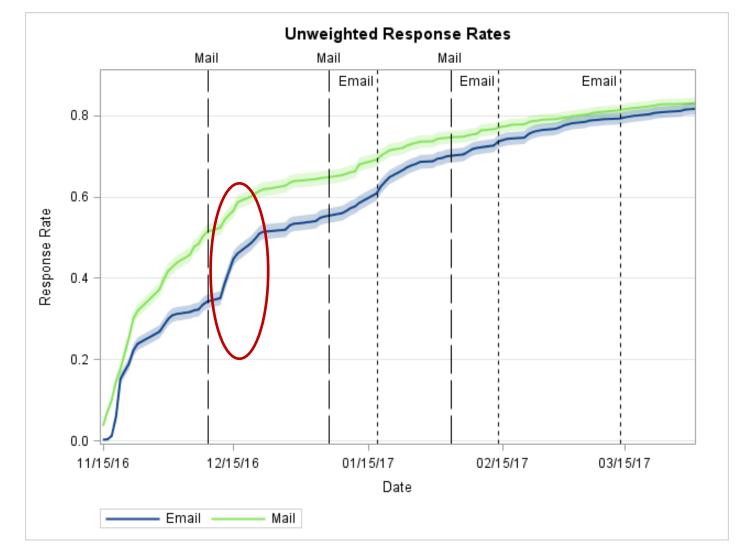


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Experiment 2: Mode Sequence

- Experiment outside of production environment, sample randomized into three groups (n ~ 2,900 each)
- All units received initial survey invitation through Email
- All units received follow-up reminders through email
- Treatments vary when the Email follow-up is augmented with a paper mail

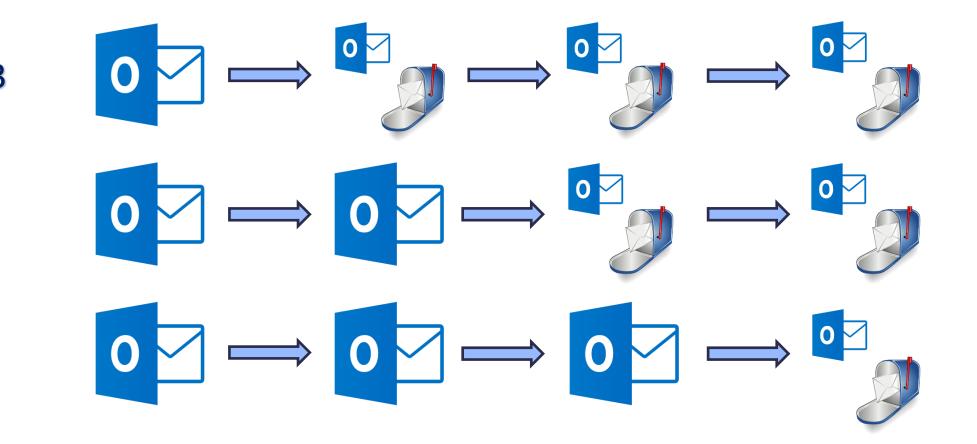


Experiment 2: Mode Sequence

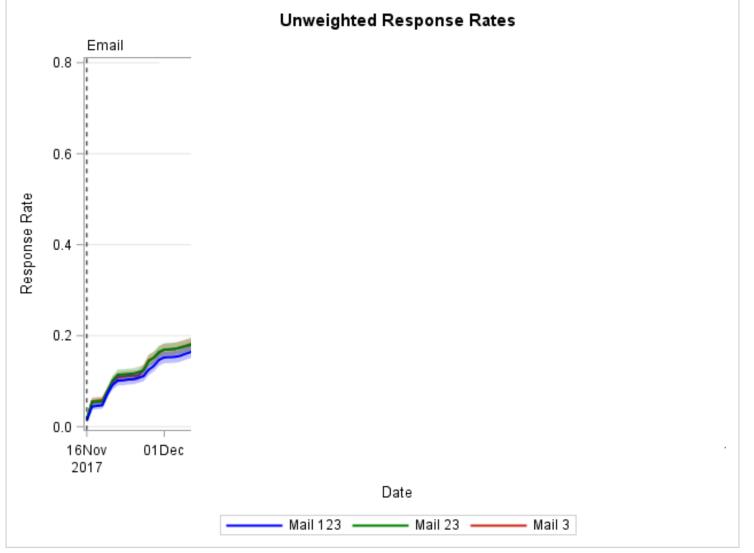
Mail 123

Mail 23

Mail 3

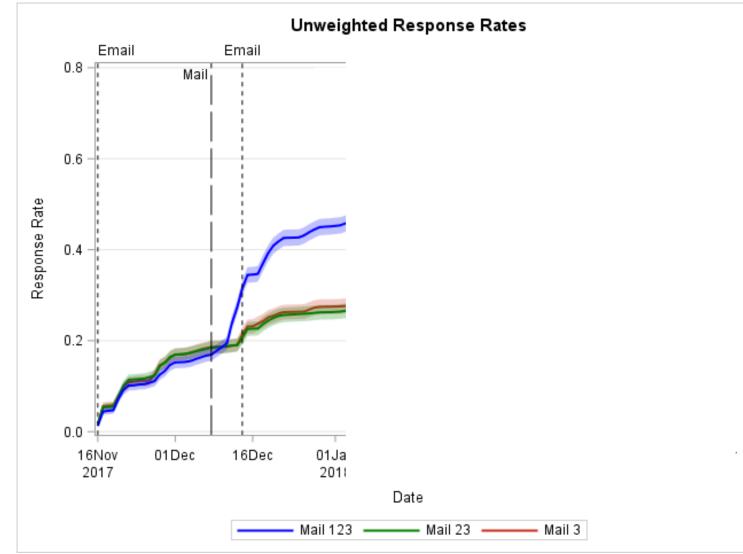






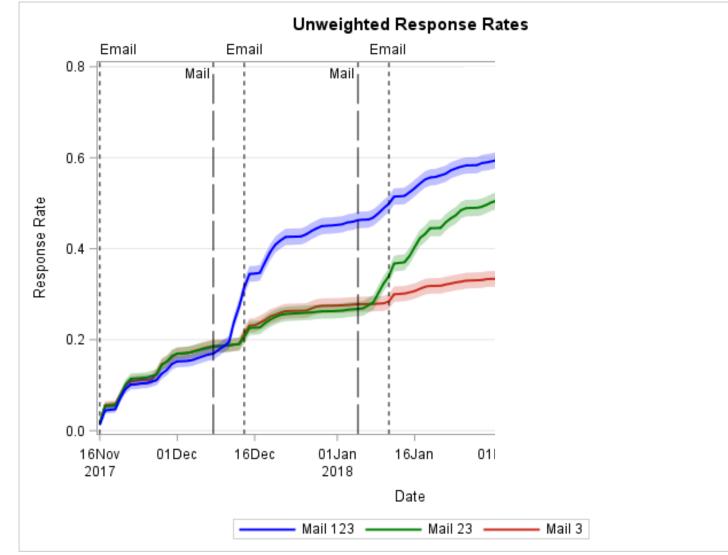






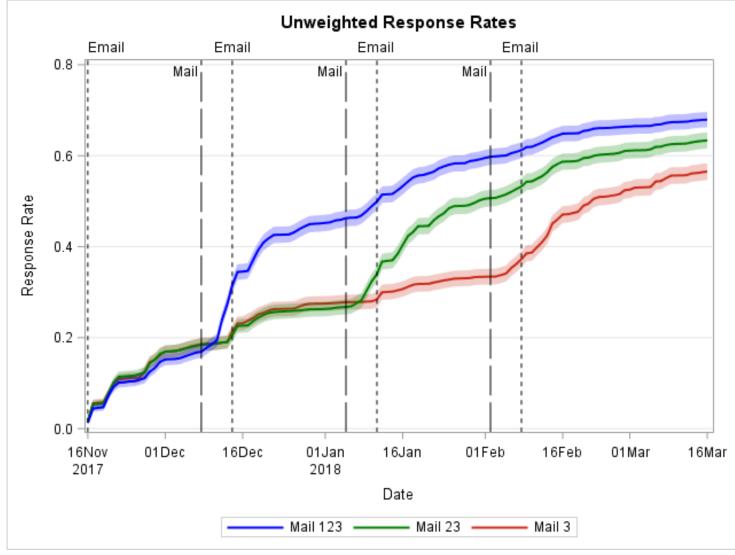














Mode of Response



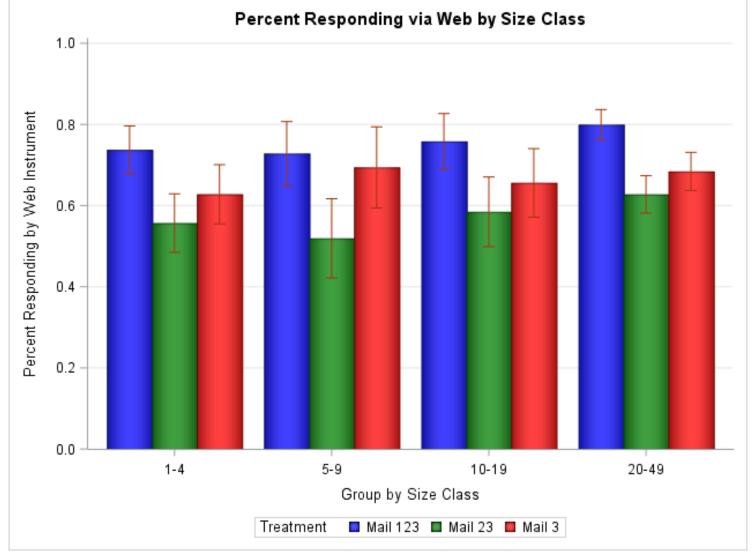


Experiment 2: Mode of Response

Collection	Group		
Mode	Mail 3	Mail 23	Mail 123
Web Instrument	69%	72%	82%
Survey Form	19%	18%	9%
Email	9%	8%	7%
Fax	2%	1%	1%
Phone	1%	1%	1%
	100%	100%	100%

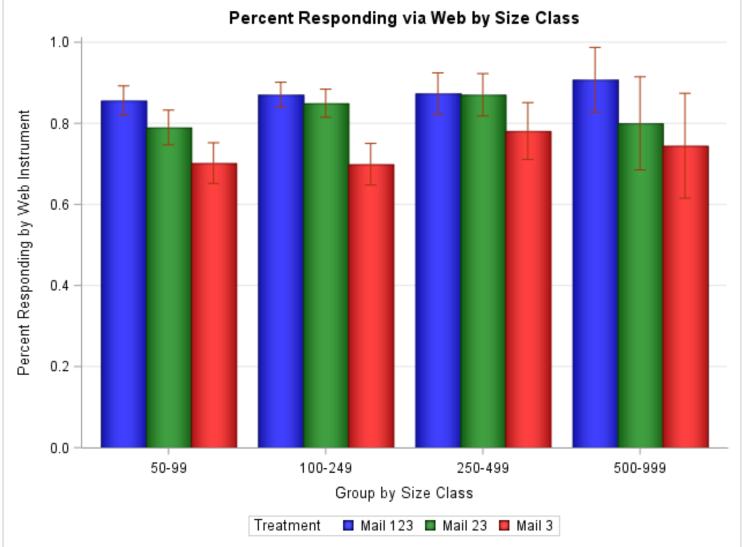


Experiment 2: Mode of Response





Experiment 2: Mode of Response





Summary

- Email is useful but should be used as a supplement to mail, not as a replacement
 - First experiment suggests initial Email contact increases web reporting
 - In second experiment, all units received initial contact via Email and all three groups were reporting through web at 69% or above!

Using Email alone will harm response rates



Contact Information

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Discussion Points

- Does anyone have any success stories / useful tips for contacting establishments with Email?
 - Follow-up, do you have Email information on frame data? If not, how do you acquire them?
- Is waiting 1-month too long when sending Email reminders?



Auxiliary

