

# Assessing the Mechanisms of Misreporting to Filter Questions in Surveys

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## **Abstract**

To avoid asking respondents questions that do not apply to them, surveys often use filter questions that determine routing into follow-up items. Filter questions can be asked in an interleaved format, in which follow-up questions are asked immediately after each relevant filter, or in a grouped format, in which follow-up questions are asked only after multiple filters have been administered. Most previous investigations of filter questions have found that the grouped format collects more affirmative answers than the interleaved format. This result has been taken to mean that respondents in the interleaved format learn to shorten the questionnaire by answering the filter questions negatively. However, this is only one mechanism that could produce the observed differences between the two formats. Acquiescence, the tendency to answer yes to yes/no questions, could also explain the results. We conducted a telephone survey that linked filter question responses to high-quality administrative data to test two hypotheses about the mechanism of the format effect. We find strong support for motivated underreporting and less support for the acquiescence hypothesis. This is the first clear evidence that the grouped format results in more accurate answers to filter questions. However, we also find that the underreporting phenomenon does not always occur. These findings are relevant to all surveys that use multiple filter questions.

## Introduction

Filter questions are commonly used in surveys to determine respondent eligibility for follow-up questions. For example, a filter question might ask whether a respondent is currently employed so that only those who report employment receive questions about pay, hours, and commuting. Filter questions generally reduce the overall burden of the questionnaire by routing respondents around questions that do not apply to them. When surveys ask many filter questions, the way in which filter questions are structured affects the responses. Two formats are common. In the interleaved format, the follow-up questions come immediately after the relevant filter question. In the grouped format, the filter questions are asked in a block, and the triggered follow-ups are asked later. The proportion of respondents giving answers that trigger follow-up questions is typically lower when filter questions are interleaved with the follow-up questions than when filters are grouped (Kessler et al. 1998; Duan et al. 2007; Kreuter et al. 2011).

Kreuter et al. (2011, Fig. 3) showed that this format effect emerges only after the first few filters: the two formats produce the same number of triggering responses for early filter questions. This finding suggests that respondents' behavior changes as they learn how a questionnaire is structured. In this paper, we test two response mechanisms that could account for this result. One mechanism involves respondent attempts to reduce the burden of the interview. The other involves respondent acquiescence.

Respondents' desire to reduce survey burden is the explanation usually offered for the finding that the interleaved format produces fewer answers triggering follow-up questions. Respondents in the interleaved condition, who initially answer the filter questions accurately, may become bored or find the interview getting too long. With later filter items, respondents may select the response option that does not trigger the follow-up questions in order to shorten the interview. Respondents in the grouped format would not learn about the consequences of their responses and would thus continue to answer the filter questions accurately. We refer to this explanation for the filter format phenomenon as the *burden hypothesis*.

An alternative explanation involves acquiescence, a tendency to say yes to yes/no questions (Krosnick and Presser 2010). In the grouped format, acquiescence to the filter questions at first appears costless: respondents do not realize that agreeing triggers follow-up questions until all filters have been answered. In the interleaved format, respondents become aware of the consequences of acquiescence after the first yes response, as they are confronted with follow-up questions that may be difficult to answer. As a result, respondents may stop acquiescing and answer later filter questions more accurately. In this way, acquiescence can produce lower

triggering rates to the later filter questions in the interleaved format. We call this explanation, proposed by Kreuter et al. (2011), the *acquiescence hypothesis*.

Both of these hypothesized mechanisms are consistent with the findings that the grouped format produces more triggering responses than the interleaved format, and that the difference between the formats grows as respondents answer more filter questions. However, the two mechanisms have different implications for data quality. According to the burden hypothesis, the grouped format should produce more accurate responses to the filter questions, while the acquiescence hypothesis predicts more accurate reporting in the interleaved format. Using a survey that contains a link to administrative data, we can explore which format collects more accurate responses to the filter questions and thus determine which mechanism is at work.

## **A Survey Experiment**

We conducted a telephone survey in Germany from August to October, 2011. The questionnaire experimentally manipulated the filter format. Because the sample was drawn from administrative records, it was possible to validate answers to some of the filter questions.

### ***Questionnaire***

Each responding case received filter questions in one of two formats: grouped or interleaved. In the grouped format, 18 filter questions were asked in a single block, followed by the applicable follow-up items. In the interleaved format, the follow-up questions came immediately after each filter question, if they were triggered. Every respondent was randomly assigned to one format and was asked filter questions in that format only.

The filter questions were grouped into three topical sections. One section asked respondents about clothing purchases and was based on questions asked in the US Consumer Expenditure Survey (Bosley et al. 1999); another section asked about employment history; and the third asked about income sources such as unemployment insurance, income support, rental income, and interest income. A yes response to any filter item triggered four follow-up questions. Within a section, all the filter questions triggered the same follow-up questions. The order of the three sections was randomized and the six filter questions within each of the sections were randomly asked in forward or backward order. To minimize the chances that respondents would think they were filter questions, yes/no questions were not used as follow-up questions.

Table 1 summarizes the most important characteristics of the three filter sections. The appendix gives the text of all 18 filter questions and the follow-up items.

Table 1: Filter Question Sections

Topic	n	n	Trigger Rates	
	Filters	Follow-Ups	Average	Range
Clothing Purchases	6	4	54.6%	32–77%
Employment Types	6	4	46.2%	13–84%
Income Sources	6	4	22.4%	5–46%

The order of administration of the sections was randomized

The order of filters within sections was randomly forwards or backwards

## *Sample*

A sample of adults was drawn from German federal databases (IAB 2011), in three nonoverlapping strata. The first stratum contained persons who received income support in 2010 and held a social security contributing job in the last 10 years. The second consisted of persons who received unemployment insurance in the last 10 years, held a social security contributing job in the last 10 years, and never received income support. The third stratum consisted of persons who received neither income support nor unemployment insurance and held social security contributing jobs with two or more different employers in the last 10 years. Within each stratum, the sample was equal probability. Table 2 summarizes the design. The stratification was intended to ensure that most respondents could truthfully answer yes to many of the filter questions asked in our survey.

In total, 1,200 interviews were completed, yielding a response rate of 19.4% (AAPOR RR1).<sup>1</sup> The sample size was based on cost considerations and the power of our tests to detect effects of similar magnitude to those in Kreuter et al. (2011). There were no significant differences in the response rates or break-off rates across the filter question conditions. Response rates did differ by the stratum (see Table 2): as observed in other studies with similar populations, those who receive support from the federal government have a higher propensity to respond to survey

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<sup>1</sup> An additional 1,200 respondents completed the survey but were assigned to experimental conditions not used in this paper. The gross sample size was 12,400. The reported response rate is for the entire sample (yielding 2,400 interviews). See Sakshaug et al. (2013) for an analysis of some of the other experiments conducted in this survey.

requests (Kreuter et al. 2010). The advance letter and contact protocol told respondents that the survey was about “Employment and Purchase Behavior in Germany” and did not mention the experimental design of the study. Interviewers, however, administered filter questions in both formats and thus were aware of the manipulations.

Table 2: Sample Design

	Stratum 1	Stratum 2	Stratum 3
Received income support in 2010 <sup>a</sup>	Yes	No	No
Received unemployment insurance in last 10 years	No	Yes	No
Held social security contributing job in last 10 years	Yes	Yes	At least 2 different employers
Completed Interviews	375	409	416
Response Rate	22.4%	21.1%	16.0%

<sup>a</sup> Due to disability, long-term unemployment, or employment that does not reach a minimum standard of living.

### ***Administrative Data***

For respondents who consented, we were able to link their answers to the employment filter questions with their administrative data (IAB 2013) using a unique identifier. Overall, 95.2% of the respondents (1,142) consented to the link, a rate that did not vary by condition or stratum. Because respondents were sampled from the administrative database, there should be no linking errors. There were, however, seven cases that consented to the link but had no employment spells in the records. We are unable to explain this, but it should not bias our results.

The administrative records that correspond to the filter questions asked in the employment section are part of the database of social security contributions made each year by employers in Germany (IAB, 2013). All contributing jobs should be captured in the database. Non-contributing positions, such as civil servant, police officer, professor, and self-employed, are not covered (Jacobebbinghaus and Seth 2007). Due to these exclusions, we anticipated some mismatch between the responses and the data, but this error should be similar across the two filter formats due to the random assignment of respondents to conditions.

## Methods

The linked survey and administrative data allowed us to explore the accuracy of respondents' answers and thus distinguish between the burden and acquiescence mechanisms. According to the burden hypothesis, the format effect is due to underreporting to the later filter questions in the interleaved format. Respondents in the interleaved format learn to underreport to avoid additional questions, and those in the grouped format do not. Accuracy should thus be higher in the grouped format. According to the acquiescence hypothesis, the format effect is due to overreporting to the early filter questions (inappropriate yes responses) in the interleaved format. Respondents in the interleaved format learn not to acquiesce and thus not to overreport, and those in the grouped format do not. Accuracy should therefore be higher in the interleaved format. From the administrative data about employment available for nearly every respondent, we calculated the percentage of filters in the employment section that were answered correctly, the percentage answered no when yes was the correct answer (false negative) and the percentage answered yes when no was the correct answer (false positive).

Using the administrative data, we assigned each respondent a score for how many times she should have reported yes in the employment section. For 1,134 respondents, we can validate responses for five of the six job types asked about in the employment section (as noted above, self-employment is a noncontributing position, and therefore cannot be validated). The number of expected yes responses varies from 1 to 5 (see Table 3). Some of our analyses are run separately for respondents with low and high scores. In line with the random assignment of respondents to format, the distribution of the number of these expected responses does not differ by filter format ( $\chi^2(4) = 4.668$ ;  $p = 0.322$ ).

Table 3: Number of Expected Triggers in Employment Section (Column Percents)

Expected Triggers	Overall	Interleaved	Grouped
1	16.0%	15.4%	16.6%
2	32.1%	30.5%	33.6%
3	34.7%	35.0%	34.5%
4	17.1%	19.1%	15.2%
5	0.1%	0.0%	0.2%
<i>n</i> respondents	1,134	560	574

Due to the experimental design, we do not need to control for confounders in the analyses and thus complex statistical techniques are not necessary. All analyses are unweighted, as our goal is not to make inference to the population in these strata, but to compare the grouped and interleaved administration of the filter questions. The analysis of filter question accuracy is conducted on the filter question level, which inflates the sample size. To ensure that our standard errors take this into account, we control for clustering within respondents. That is, because answers to the questions are somewhat correlated (e.g., those who had a part-time job are more likely to have had a full-time job) we adjust the standard errors, using the Taylor Series linearization method of variance estimation.

## Results

We first examine whether the grouped format produced more triggering reports than the interleaved format. We then examine filter question accuracy to distinguish between the two mechanisms.

Pooling the three filter sections (clothing, employment, and income), we see the expected effect: respondents in the interleaved format gave triggering answers to the filter questions 37.9% of the time versus 42.4% of the time in the grouped format ( $t=5.65$ ; see Column 1 of Table 4).

However, when we separate the results by section, the effect is significant only in the clothing section. The ten-percentage-point difference between the two formats in the clothing section is similar in size to the format effect Kreuter et al. (2011) found with similar questions in a US telephone survey. In the employment and income sections, the grouped format produces slightly more triggering reports, but the difference is not significant. Because the order of the sections was randomized, the result reflects a topic and not an order effect.<sup>2</sup>

There are several possible explanations for the lack of a format effect in the employment and income sections. It could be that the clothing section was more tedious and/or more difficult than the other sections: both could increase the likelihood of underreporting to reduce burden and increase the likelihood of acquiescence. Another possible explanation is based on the lower average triggering rates in the employment and income sections. In sections with low trigger rates, respondents in the interleaved format have less opportunity to learn how the filter and

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<sup>2</sup> We also checked for an effect of the placement of the section within the questionnaire, and found no evidence that sections administered later, in either format, received fewer triggering responses. Kreuter et al. (2011) also found no across-section effects on triggering rates.

follow-up questions worked. The average trigger rate in the employment section was eight percentage points lower than in the clothing section, and the average rate in the income section was lower still (Table 1). However, we note that Kreuter et al. (2011) found a format effect in filter sections with even lower triggering rates than in the employment section here.

Table 4: Percent of Filter Questions Triggered, by Filter Format and Section

Format	Overall	Clothing	Employment	Income
Interleafed	37.9 (0.56)	48.4 (1.09)	43.8 (0.69)	21.3 (0.59)
Grouped	42.4 (0.58)	59.8 (1.20)	45.1 (0.70)	22.3 (0.65)
t-test	5.65	7.03	1.28	1.13
p-value	< 0.001	< 0.001	0.201	0.259
<i>n</i> filters	21,539 <sup>a</sup>	7,194 <sup>a</sup>	7,197 <sup>a</sup>	7,148 <sup>a</sup>
<i>n</i> respondents	1,200	1,200	1,200	1,200

Standard errors in parentheses

<sup>a</sup> While there should be 7,200 filters in each section, some respondents answered don't know or refused the filter questions and these responses are excluded.

We cannot fully test these competing explanations for the lack of a format effect in the employment and income sections, because our survey was not designed to do so. However, using the linked administrative data, we can test whether respondents who should have said yes more often in the employment section do demonstrate the format effect. Table 5 shows the average number of triggers per respondent across the five job types we could validate in the employment section. The respondents are split into two nearly equal sized groups: those who held one or two of the five job types we can validate (Column 1) and those who had three or more (Column 2). We see that respondents with more job types did in fact say yes to the filter questions more often. In addition, among those respondents who were expected to trigger three or more times, the grouped format produced more triggering responses than the interleaved format ( $t=3.30$ ). Thus, we find the expected format effect among this subset of respondents.

Table 5: Average Number of Triggered Filters in Employment Section, by Filter Format and Expected Number of Triggers

Format	1-2 Triggers		3-5 Triggers	
	Expected		Expected	
Interleafed	2.13	(0.052)	2.77	(0.054)
Grouped	2.07	(0.048)	3.01	(0.050)
t-test	-0.83		3.30	
p-value	0.406		0.001	
<i>n</i> respondents	545		589	

Standard errors in parentheses

We next explore the accuracy – among all respondents – of the reports to the five employment filter questions that we can validate. Recall that the burden hypothesis predicts greater accuracy in the grouped format and more false negative responses in the interleaved format. The acquiescence hypothesis predicts more accuracy in the interleaved format and more false positive responses in the grouped format. In the first three columns of Table 6, we see that there is incorrect reporting in both formats. Overall, almost 80 percent of the responses to the five filter questions were accurate, about 10 percent were underreports, and about 10 percent were overreports. However, there are significantly more accurate reports in the grouped format and significantly more false negatives in the interleaved format. False positives do not vary by format. Restricting this analysis to those respondents expected to trigger three or more times makes the results stronger (see the last three columns of Table 6).

These results strongly favor the burden hypothesis over the acquiescence hypothesis: the grouped format collects more accurate data than the interleaved format, and respondents in the interleaved format underreport.

Table 6: Correct and Incorrect Reporting to Five Filter Questions in the Employment Section

Format	All Linked Respondents			Respondents with 3-5 Triggers Expected		
	Pct. Correct	Pct. False Negative	Pct. False Positive	Pct. Correct	Pct. False Negative	Pct. False Positive
Interleafed	75.8 (0.85)	13.2 (0.66)	11.1 (0.56)	74.6 (1.21)	18.6 (0.97)	6.9 (0.58)
Grouped	79.4 (0.79)	9.8 (0.55)	10.8 (0.53)	79.4 (1.12)	13.3 (0.86)	7.3 (0.60)
<i>t</i> -test	3.08	-3.91	-0.30	-2.90	-4.04	0.58
<i>p</i> -value	0.002	< 0.001	0.764	0.004	< 0.001	0.561
<i>n</i> filters	4,397	649	621	2,264	471	209
<i>n</i> respondents	1,134	505	532	589	343	202

Standard errors in parentheses

## **Discussion & Conclusion**

This study, with an experimental manipulation of the filter format and a link to high-quality administrative data, has led to two related findings. First, the format effect is due more to respondents' desire to minimize interview burden than to acquiescence. Second, the grouped format produces more accurate responses to filter questions. Previous studies have argued in favor of these conclusions but ours is the first to provide direct evidence for them. The study has also shown that the format effect observed in earlier research does not always occur. Whether it appears or not may be related to the baseline trigger rate or to how tedious or difficult the questions are. Our data do not allow us to test these hypotheses.

Our results provide support for the use of the grouped format over the interleaved format. However, the grouped format may be awkward for respondents. They must first answer a series of yes/no questions and then later return to some of those topics to answer the follow-up items. Recall may be easier, and measurement error in the follow-up questions lower, when respondents can stick to one topic at a time, as the interleaved format permits. Due to the potential benefits of the interleaved format, future research should search for ways to improve the interleaved format and minimize underreporting.

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## ***Appendix: Wording of Filter and Follow-Up Questions***

### **Clothing Section Filters**

1.1 This year, that is in 2011, have you bought a coat or jacket for yourself or for someone else?

1.2 This year, that is in 2011, have you bought a shirt or a blouse for yourself or for someone else?

1.3 This year, that is in 2011, have you bought trousers for yourself or for someone else?

1.4 This year, that is in 2011, have you bought shoes for yourself or for someone else?

1.5 This year, that is in 2011, have you bought sportswear for yourself or for someone else?

1.6 This year, that is in 2011, have you bought swimwear for yourself or for someone else?

#### Clothing Section Follow-Ups

1.1.1 For whom did you purchase this coat or jacket? For yourself, a family member, or for someone else?

1.1.2 In what month did you purchase this coat or jacket?

1.1.3 How much did this coat or jacket cost?

1.1.4 How satisfied are you with this coat or jacket? Are you very satisfied, somewhat satisfied, somewhat dissatisfied, or very dissatisfied?

### **Employment Section Filters**

2.1 Have you ever held a full-time job? (Note: We explicitly instructed respondents not to include self-employment.)

2.2 Have you ever held a part-time job? (Note: We explicitly instructed respondents not to include self-employment or Mini-Jobs.)

2.3 Have you ever held a so-called Mini-Job, with a payment of 400 Euros a month or less?

2.4 Have you ever received professional training?

2.5 Have you ever received paid practical training?

2.6 Have you ever been self-employed?

## **Employment Section Follow-Ups**

2.1.1 From when and until when did you hold your most recent full-time job?<sup>3</sup>

2.1.2 How many hours per week did/do you work in your most recent full-time job?

2.1.3 In what industry was/is your most recent full-time job?

2.1.4 What was your last monthly income at your most recent full-time job?

### **Income Section Filters**

3.1 In the year 2010: Did you or another person in your household have income from interest or investment income, e.g. savings, shares, equity funds, or fixed-interest securities?

3.2 In the year 2010: Did you or another person in your household have income from rental property, including leases and subleases?

3.3 In the year 2010: Did you or another person in your household receive a child benefit?

3.4 In the year 2010: Did you or another person in your household receive parental money or a maternity benefit?

3.5 In the year 2010: Did you or another person in your household receive income support?<sup>4</sup>

3.6 In the year 2010: Did you or another person in your household receive unemployment insurance?

## **Income Section Follow-Ups**

3.1.1 Which person in your household has received income from interest or investment income? You yourself or another member of your household?

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<sup>3</sup> Several of the follow-ups in this section contained additional wording experiments. We show only one form here.

<sup>4</sup> Income support refers to funds for those with disabilities, the long-term unemployed, and those whose income does not reach a minimum standard of living.

3.1.2 How often (with what regularity) did your household receive income from interest or investment income?

3.1.3 How large was the last amount of income from interest or investment income that your household received in 2010?

3.1.4 In what month in 2010 did your household first receive income from interest or investment income?