

## Sample Papers

### Sample Professional Paper

COMPARISON OF STUDENT EVALUATIONS OF TEACHING 1

**Comparison of Student Evaluations of Teaching With Online and Paper-Based Administration**

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**Author Note**

Data collection and preliminary analysis were sponsored by the Office of the Provost and the Student Assessment of Instruction Task Force. Portions of these findings were presented as a poster at the 2016 National Institute on the Teaching of Psychology, St. Pete Beach, Florida, United States. We have no conflicts of interest to disclose.

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**Abstract**

When institutions administer student evaluations of teaching (SETs) online, response rates are lower relative to paper-based administration. We analyzed average SET scores from 364 courses taught during the fall term in 3 consecutive years to determine whether administering SET forms online for all courses in the 3rd year changed the response rate or the average SET score. To control for instructor characteristics, we based the data analysis on courses for which the same instructor taught the course in each of three successive fall terms. Response rates for face-to-face classes declined when SET administration occurred only online. Although average SET scores were reliably lower in Year 3 than in the previous 2 years, the magnitude of this change was minimal (0.11 on a five-item Likert-like scale). We discuss practical implications of these findings for interpretation of SETs and the role of SETs in the evaluation of teaching quality.

*Keywords:* college teaching, student evaluations of teaching, online administration, response rate, assessment

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Comparison of Student Evaluations of Teaching With Online and Paper-Based Administration

Introduction

Student ratings and evaluations of instruction have a long history as sources of information about teaching quality (Berk, 2013). Student evaluations of teaching (SETs) often play a significant role in high-stakes decisions about hiring, promotion, tenure, and teaching awards. As a result, researchers have examined the psychometric properties of SETs and the possible impact of variables such as race, gender, age, course difficulty, and grading practices on average student ratings (Griffin et al., 2014; Nulty, 2008; Spooen et al., 2013). They have also examined how decision makers evaluate SET scores (Boysen, 2015a, 2015b; Boyesen et al., 2014; Dewar, 2011). In the last 20 years, considerable attention has been directed toward the consequences of administering SETs online (Morrison, 2011; Stowell et al., 2012) because low response rates may have implications for how decision makers should interpret SETs.

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students do not write comments on paper-based forms), or an instructor might remain present during SET administration (Avery et al., 2006).

In-class, paper-based administration creates social expectations that might motivate students to complete SETs. In contrast, students who are concerned about confidentiality or do not understand how instructors and institutions use SET findings to improve teaching might ignore requests to complete an online SET (Dommeyer et al., 2002). Instructors in turn worry that low response rates will reduce the validity of the findings if students who do not complete an SET differ in significant ways from students who do (Stowell et al., 2012). For example, students who do not attend class regularly often miss class the day that SETs are administered. However, all students (including nonattending students) can complete the forms when they are administered online. Faculty also fear that SET findings based on a low-response sample will be dominated by students in extreme categories (e.g., students with grudges, students with extremely favorable attitudes), who may be particularly motivated to complete online SETs, and therefore that SET findings will inadequately represent the voice of average students (Reiner & Arnold, 2010).

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Effects of Format on Response Rates and Student Evaluation Scores

The potential for biased SET findings associated with low response rates has been examined in the published literature. In findings that run contrary to faculty fears that online SETs might be dominated by low-performing students, Avery et al. (2006) found that students with higher grade-point averages (GPAs) were more likely to complete online evaluations. Likewise, Jaquett et al. (2017) reported that students who had positive experiences in their classes (including receiving the grade they expected to earn) were more likely to submit course evaluations.

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Institutions can expect lower response rates when they administer SETs online (Avery et al., 2006; Dommeyer et al., 2002; Morrison, 2011; Nulty, 2008; Reiner & Arnold, 2010; Stowell et al., 2012; Venette et al., 2010). However, most researchers have found that the mean SET rating does not change



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significantly when they compare SETs administered on paper with those completed online. These findings have been replicated in multiple settings using a variety of research methods (Avery et al., 2006; Dommeyer et al., 2004; Morrison, 2011; Stowell et al., 2012; Venette et al., 2010).

Exceptions to this pattern of minimal or nonsignificant differences in average SET scores appeared in Nowell et al. (2010) and Morrison (2011), who examined a sample of 29 business courses. Both studies reported lower average scores when SETs were administered online. However, they also found that SET scores for individual items varied more within an instructor when SETs were administered online versus on paper. Students who completed SETs on paper tended to record the same response for all questions, whereas students who completed the forms online tended to respond differently to different questions. Both research groups argued that scores obtained online might not be directly comparable to scores obtained through paper-based forms. They advised that institutions administer SETs entirely online or entirely on paper to ensure consistent, comparable evaluations across faculty.

Each university presents a unique environment and culture that could influence how seriously students take SETs and how they respond to decisions to administer SETs online. Although a few large-scale studies of the impact of online administration exist (Reiner & Arnold, 2010; Risquez et al., 2015), a local replication answers questions about characteristics unique to that institution and generates evidence about the generalizability of existing findings.

**Purpose of the Present Study**

In the present study we examined patterns of responses for online and paper-based SET scores at a midsized, regional, comprehensive university in the United States. We posed two questions: First, does the response rate or the average SET score change when an institution administers SET forms online instead of on paper? Second, what is the minimal response rate required to produce stable average SET scores for an instructor? Whereas much earlier research relied on small samples often

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limited to a single academic department, we gathered SET data on a large sample of courses ( $N = 364$ ) that included instructors from all colleges and all course levels over 3 years. We controlled for individual differences in instructors by limiting the sample to courses taught by the same instructor in all 3 years. The university offers nearly 30% of course sections online in any given term, and these courses have always administered online SETs. This allowed us to examine the combined effects of changing the method of delivery for SETs (paper-based to online) for traditional classes and changing from a mixed method of administering SETs (paper for traditional classes and online for online classes in the first 2 years of data gathered) to uniform use of online forms for all classes in the final year of data collection.

**Method**

**Sample**

Response rates and evaluation ratings were retrieved from archived course evaluation data. The archive of SET data did not include information about personal characteristics of the instructor (gender, age, or years of teaching experience), and students were not provided with any systematic incentive to complete the paper or online versions of the SET. We extracted data on response rates and evaluation ratings for 36 (2012, 2013, The s instructors (3 provided dat courses, and face-to-face

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beginning undergraduate level (1st- and 2nd-year students), 205 courses (56%) at the advanced undergraduate level (3rd- and 4th-year students), and 52 courses (14%) at the graduate level.

**Instrument**

The course evaluation instrument was a set of 18 items developed by the state university system. The first eight items were designed to measure the quality of the instructor, concluding with a global rating of instructor quality (Item 8: "Overall assessment of instructor"). The remaining items asked students to evaluate components of the course, concluding with a global rating of course organization (Item 18: "Overall, I would rate the course organization"). No formal data on the psychometric properties of the items are available, although all items have obvious face validity.

Students were asked to rate each instructor as *poor* (0), *fair* (1), *good* (2), *very good* (3), or *excellent* (4) in response to each item. Evaluation ratings were subsequently calculated for each course and instructor. A median rating was computed when an instructor taught more than one section of a course during a term.

The institution limited our access to SET data for the 3 years of data requested. We obtained scores for Item 8 ("Overall assessment of instructor") for all 3 years but could obtain scores for Item 18 ("Overall, I would rate the course organization") only for Year 3. We computed the correlation between scores on Item 8 and Item 18 (from course data recorded in the 3rd year only) to estimate the internal consistency of the evaluation instrument. These two items, which serve as composite summaries of preceding items (Item 8 for Items 1–7 and Item 18 for Items 9–17), were strongly related,  $r(362) = .92$ . Feistauer and Richter (2016) also reported strong correlations between global items in a large analysis of SET responses.

**Design**

This study took advantage of a natural experiment created when the university decided to administer all course evaluations online. We requested SET data for the fall semesters for 2 years

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preceding the change, when students completed paper-based SET forms for face-to-face courses and online SET forms for online courses, and data for the fall semester of the implementation year, when students completed online SET forms for all courses. We used a  $2 \times 3 \times 3$  factorial design in which course delivery method (face to face and online) and course level (beginning undergraduate, advanced undergraduate, and graduate) were between-subjects factors and evaluation year (Year 1: 2012, Year 2: 2013, and Year 3: 2014) was a repeated-measures factor. The dependent measures were the response rate (measured as a percentage of class enrollment) and the rating for Item 8 ("Overall assessment of instructor").

Data analysis was limited to scores on Item 8 because the institution agreed to release data on this one item only. Data for scores on Item 18 were made available for SET forms administered in Year 3 to address questions about variation in responses across items. The strong correlation between scores on Item 8 and scores on Item 18 suggested that Item 8 could be used as a surrogate for all the items. These two items were of particular interest because faculty, department chairs, and review committees frequently rely on these two items as stand-alone indicators of teaching quality for annual evaluations and tenure and promotion reviews.

**Results**

**Response Rates**

Response rates are presented in Table 1. The findings indicate that response rates for face-to-face courses were much higher than for online courses, but only when face-to-face course evaluations were administered in the classroom. In the Year 3 administration, when all course evaluations were administered online, response rates for face-to-face courses declined ( $M = 47.18\%$ ,  $SD = 20.11$ ), but were still slightly higher than for online courses ( $M = 41.60\%$ ,  $SD = 18.23$ ). These findings produced a statistically significant interaction between course delivery method and evaluation year,  $F(1.78, 716) =$

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101.34,  $MSE = 210.61$ ,  $p < .001$ .<sup>1</sup> The strength of the overall interaction effect was .22 ( $\eta_p^2$ ). Simple main-effects tests revealed statistically significant differences in the response rates for face-to-face courses and online courses for each of the 3 observation years.<sup>2</sup> The greatest differences occurred during Year 1 ( $p < .001$ ) and Year 2 ( $p < .001$ ), when evaluations were administered on paper in the classroom for all face-to-face courses and online for all online courses. Although the difference in response rate between face-to-face and online courses during the Year 3 administration was statistically reliable (when both face-to-face and online courses were evaluated with online surveys), the effect was small ( $\eta_p^2 = .02$ ). Thus, there was minimal difference in response rate between face-to-face and online courses when evaluations were administered online for all courses. No other factors or interactions included in the analysis were statistically reliable.

**Evaluation Ratings**

The same  $2 \times 3 \times 3$  analysis of variance model was used to evaluate mean SET ratings. This analysis produced two statistically significant main effects. The first main effect involved evaluation year,  $F(1.86, 716) = 3.44$ ,  $MSE = 0.18$ ,  $p = .03$  ( $\eta_p^2 = .01$ ; see Footnote 1). Evaluation ratings associated with the Year 3 administration ( $M = 3.26$ ,  $SD = 0.60$ ) were significantly lower than the evaluation ratings associated with both the Year 1 ( $M = 3.35$ ,  $SD = 0.53$ ) and Year 2 ( $M = 3.38$ ,  $SD = 0.54$ ) administrations. Thus, all courses received lower SET scores in Year 3, regardless of course delivery method and course level. However, the size of this effect was small (the largest difference in mean rating was 0.11 on a five-item scale).

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<sup>1</sup> A Greenhouse–Geisser adjustment of the degrees of freedom was performed in anticipation of a sphericity assumption violation.  
<sup>2</sup> A test of the homogeneity of variance assumption revealed no statistically significant difference in response rate variance between the two delivery modes for the 1st, 2nd, and 3rd years.

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**Stability of Ratings**

The scatterplot presented in Figure 1 illustrates the relation between SET scores and response rate. Although the correlation between SET scores and response rate was small and not statistically significant,  $r(362) = .07$ , visual inspection of the plot of SET scores suggests that SET ratings became less variable as response rate increased. We conducted Levene's test to evaluate the variability of SET scores above and below the 60% response rate, which several researchers have recommended as an acceptable threshold for response rates (Berk, 2012, 2013; Nulty, 2008). The variability of scores above and below the 60% threshold was not statistically reliable,  $F(1, 362) = 1.53$ ,  $p = .22$ .

**Discussion**

Online administration of SETs in this study was associated with lower response rates, yet it is curious that online courses experienced a 10% increase in response rate when all courses were evaluated with online forms in Year 3. Online courses had suffered from chronically low response rates in previous years, when face-to-face classes continued to use paper-based forms. The benefit to response rates observed for online courses when all SET forms were administered online might be attributed to increased communications that encouraged students to complete the online course evaluations. Despite this improvement, response rates for online courses continued to lag behind those for face-to-face courses. Differences in response rates for face-to-face and online courses might be

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Although the average SET rating was significantly lower in Year 3 than in the previous 2 years, the magnitude of the numeric difference was small (differences ranged from 0.08 to 0.11, based on a 0–4 Likert-like scale). This difference is similar to the differences Risquez et al. (2015) reported for SET scores after statistically adjusting for the influence of several potential confounding variables. A substantial literature has discussed the appropriate and inappropriate interpretation of SET ratings (Berk, 2013; Boysen, 2015a, 2015b; Boysen et al., 2014; Dewar, 2011; Stark & Freishtat, 2014).

Faculty have often raised concerns about the potential variability of SET scores due to low response rates and thus small sample sizes. However, our analysis indicated that classes with high response rates produced equally variable SET scores as did classes with low response rates. Reviewers should take extra care when they interpret SET scores. Decision makers often ignore questions about whether means derived from small samples accurately represent the population mean (Iversky & Kahneman, 1971). Reviewers frequently treat all numeric differences as if they were equally meaningful as measures of true differences and give them credibility even after receiving explicit warnings that these differences are not meaningful (Boysen, 2015a, 2015b).

Because low response rates produce small sample sizes, we expected that the SET scores based on smaller class samples (i.e., courses with low response rates) would be more variable than those based on larger class samples (i.e., courses with high response rates). Although researchers have recommended that response rates reach the criterion of 60%–80% when SET data will be used for high-stakes decisions (Berk, 2012, 2013; Nulty, 2008), our findings did not indicate a significant reduction in SET score variability with higher response rates.

**Implications for Practice**

**Improving SET Response Rates**

When decision makers use SET data to make high-stakes decisions (faculty hires, annual evaluations, tenure, promotions, teaching awards), institutions would be wise to take steps to ensure

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that SETs have acceptable response rates. Researchers have discussed effective strategies to improve response rates for SETs (Nulty, 2008; **see also** Berk, 2013; Dommeyer et al., 2004; Jaquett et al., 2016). These strategies include offering empirically validated incentives, creating high-quality technical systems with good human factors characteristics, and promoting an institutional culture that clearly supports the use of SET data and other information to improve the quality of teaching and learning. Programs and instructors must discuss why information from SETs is important for decision-making and provide students with tangible evidence of how SET information guides decisions about curriculum improvement. The institution should provide students with compelling evidence that the administration system protects the confidentiality of their responses.

**Evaluating SET Scores**

In addition to ensuring adequate response rates on SETs, decision makers should demand multiple sources of evidence about teaching quality (Buller, 2012). High-stakes decisions should never rely exclusively on numeric data from SETs. Reviewers often treat SET ratings as a surrogate for a measure of the impact an instructor has on student learning. However, a recent meta-analysis (Uttl et al., 2017) questioned whether SET scores have any relation to student learning. Reviewers need evidence in addition to SET ratings to evaluate teaching, such as evidence of the instructor’s disciplinary content expertise, skill with classroom management, ability to engage learners with lectures or other activities, impact on student learning, or success with efforts to modify and improve courses and teaching strategies (Berk, 2013; Stark & Freishtat, 2014). As with other forms of assessment, any one measure may be limited in terms of the quality of information it provides. Therefore, multiple measures are more informative than any single measure.

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samples of student work. Course syllabi can identify intended learning outcomes; describe instructional strategies that reflect the rigor of the course (required assignments and grading practices); and provide other information about course content, design, instructional strategies, and instructor interactions with students (Palmer et al., 2014; Stanny et al., 2015).

**Conclusion**

Psychology has a long history of devising creative strategies to measure the "unmeasurable," whether the targeted variable is a mental process, an attitude, or the quality of teaching (e.g., Webb et al., 1966). In addition, psychologists have documented various heuristics and biases that contribute to the misinterpretation of quantitative data (Gilovich et al., 2002), including SET scores (Boysen, 2015a, 2015b; Boysen et al., 2014). These skills enable psychologists to offer multiple solutions to the challenge posed by the need to objectively evaluate the quality of teaching and the impact of teaching on student learning.

Online administration of SET forms presents multiple desirable features, including rapid feedback to instructors, economy, and support for environmental sustainability. However, institutions should adopt implementation procedures that do not undermine the usefulness of the data gathered. Moreover, institutions should be wary of emphasizing procedures that produce high response rates only to lull faculty into believing that SET data can be the primary (or only) metric used for high-stakes decisions about the quality of faculty teaching. Instead, decision makers should expect to use multiple measures to evaluate the quality of faculty teaching.

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**Sample Professional Paper** (continued)

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Sample Professional Paper (continued)

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**Table 1**  
*Means and Standard Deviations for Response Rates (Course Delivery Method by Evaluation Year)*

| Administration year | Face-to-face course |           | Online course |           |
|---------------------|---------------------|-----------|---------------|-----------|
|                     | <i>M</i>            | <i>SD</i> | <i>M</i>      | <i>SD</i> |
| Year 1: 2012        | 71.72               | 16.42     | 32.93         | 15.73     |
| Year 2: 2013        | 72.31               | 14.93     | 32.55         | 15.96     |
| Year 3: 2014        | 47.18               | 20.11     | 41.60         | 18.23     |

*Note.* Student evaluations of teaching (SETs) were administered in two modalities in Years 1 and 2: paper based for face-to-face courses and online for online courses. SETs were administered online for all courses in Year 3.

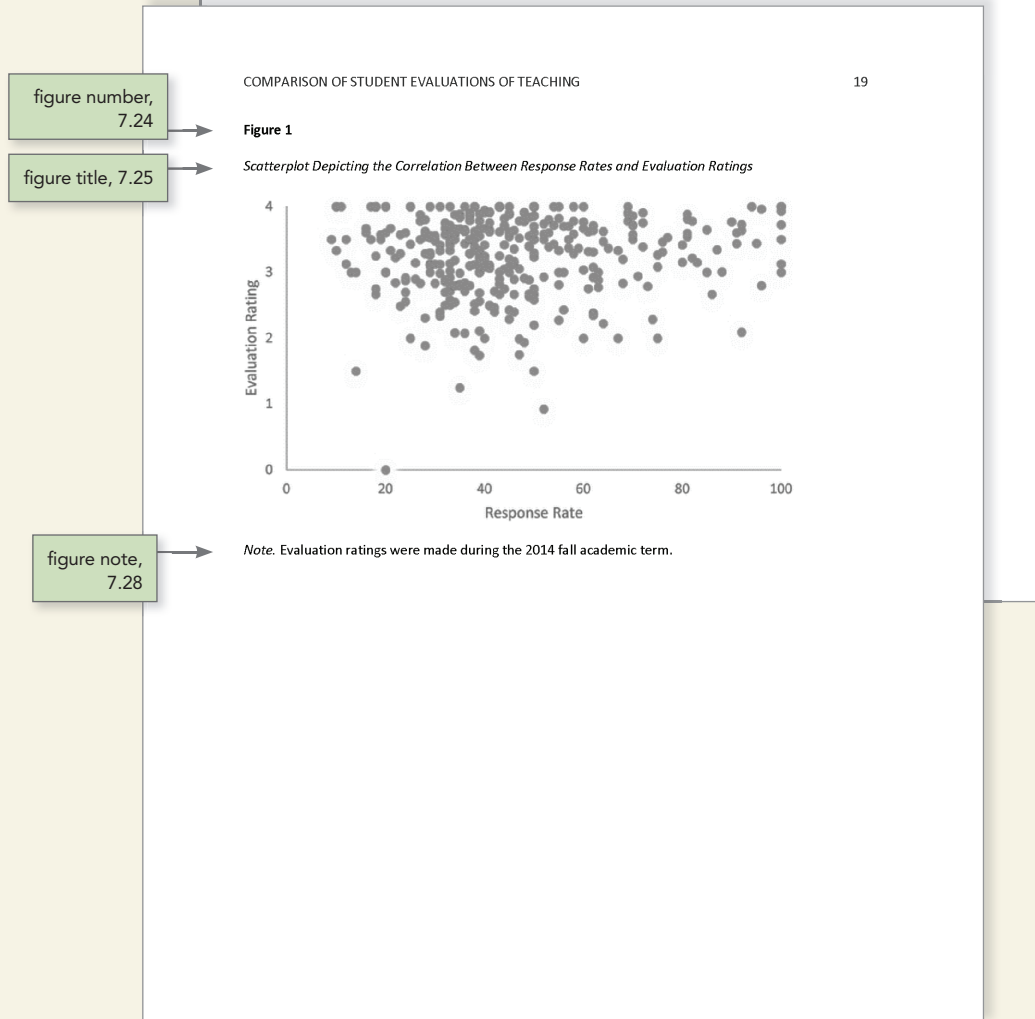


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