Neya Global Journal of Non-Profit Studies

2025

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DOI: 10.64357/neya-gjnps-tr-ev-imp-as-05

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Abstract

Data collection is the cornerstone of program evaluation, shaping the reliability, validity, and usefulness of findings. Without rigorous data collection methods, evaluations risk generating incomplete or misleading conclusions. This article analyzes the role of qualitative, quantitative, and mixed-methods approaches in nonprofit and development evaluations, emphasizing their application in resource-limited settings. Qualitative methods —including interviews, focus groups, and case studies—capture lived experiences and contextual dynamics, while quantitative methods such as surveys, statistical data, and structured observation provide measurable, generalizable evidence. Mixed-methods approaches integrate both dimensions, offering comprehensive insights that bridge depth and breadth. Strategies for ensuring accuracy, reliability, and validity are explored, with particular attention to challenges in low-resource contexts, such as language barriers, low literacy levels, and financial constraints. Practical examples from literacy, vocational training, health, and microfinance programs demonstrate the benefits of contextually adapted data collection strategies. The article concludes that evaluation quality depends not only on methodological rigor but also on adaptability, cultural sensitivity, and ongoing quality control. By adopting robust and context-appropriate methods, organizations can ensure credible evidence to guide decision-making, strengthen accountability, and improve program outcomes.

Keywords

data collection; program evaluation; qualitative methods; quantitative methods; mixed-methods; validity; nonprofit accountability

1. Introduction

Evaluation findings are only as strong as the data on which they are based. Selecting appropriate data collection methods is therefore central to producing credible, actionable insights. The choice of method depends on the evaluation's objectives, available resources, and the social and cultural context of the program. For nonprofit organizations, particularly those operating in resource-constrained environments, balancing rigor with feasibility is essential.

2. Qualitative Approaches

2.1 Interviews

Interviews enable evaluators to capture rich, detailed perspectives from participants. Structured, semi-structured, or unstructured formats allow for flexibility depending on the depth of inquiry required. In vocational training programs, interviews often reveal hidden barriers to skill development that quantitative tools might overlook.

2.2 Focus Groups

Focus groups encourage dialogue among participants, providing collective insights into program effectiveness and community perceptions. Small group sizes (6–10 participants) and culturally sensitive facilitation are critical for encouraging open exchange. For instance, community health programs often use focus groups to assess accessibility and trust in services.

2.3 Case Studies

Case studies provide in-depth analysis of specific program experiences, capturing contextual and process-related dynamics. A microfinance initiative might develop case studies of successful clients to identify factors contributing to financial sustainability and broader community impact.

3. Quantitative Approaches

3.1 Surveys and Questionnaires

Surveys enable standardized data collection from large samples, making them highly effective for measuring outcomes such as knowledge acquisition, behavior change, or satisfaction. Ensuring clear question design and language accessibility is particularly important in low-literacy populations.

3.2 Statistical Data

Secondary data from government records, program reports, and public databases provides cost-effective quantitative evidence. For example, health interventions may be evaluated using epidemiological data to assess changes in disease incidence.

3.3 Observation

Structured observation uses predefined criteria to record behaviors and events directly, reducing reliance on self-reporting. In education settings, classroom observations can measure teaching effectiveness and student engagement. Proper training of observers is essential for ensuring consistency.

4. Mixed-Methods Approaches

Mixed-methods designs combine qualitative depth with quantitative breadth, enhancing validity and interpretive power. Three commonly used designs include:

- **Sequential Explanatory**: Collecting quantitative data first, then using qualitative methods to interpret findings (e.g., surveys followed by interviews).
- **Sequential Exploratory**: Beginning with qualitative exploration to identify issues, then quantifying them through surveys.
- **Concurrent Triangulation**: Collecting both data types simultaneously to validate results and provide comprehensive insights.

For example, a community development program may conduct household surveys to measure income change while running focus groups to explore perceptions of well-being.

5. Ensuring Data Quality

High-quality data requires attention to three dimensions:

- **Accuracy**: Using precise tools, pilot testing instruments, and providing clear guidance to participants.
- **Reliability**: Maintaining consistency across evaluators and contexts, supported by standardized protocols and inter-rater checks.
- **Validity**: Ensuring methods measure what they claim to measure, strengthened by triangulation across multiple sources and methods.

6. Challenges in Resource-Limited Settings

Constraints such as limited funding, language barriers, and low literacy can compromise data collection. Strategies to address these include:

- Using mobile or digital survey tools for cost efficiency.
- Translating instruments into local languages and employing culturally relevant terminology.
- Incorporating visual or oral methods to enhance accessibility.
- Conducting interviews and focus groups in familiar, community-based settings to increase comfort and trust.

7. Best Practices

Effective data collection in nonprofit evaluations should prioritize:

- Clear, accessible instruments tailored to the population.
- Rigorous training for data collectors.
- Pilot testing to identify methodological issues early.
- Integration of multiple methods for triangulation and validity.
- Ongoing monitoring to ensure quality control throughout the process.

8. Conclusion

The credibility and utility of evaluation findings depend heavily on the quality of data collected. By selecting context-appropriate qualitative, quantitative, and mixed-methods approaches, nonprofits can generate evidence that is both rigorous and relevant. In resource-constrained contexts, flexibility, cultural sensitivity, and creative adaptation of tools are vital. For practitioners, strong data collection practices underpin accountability and resource optimization. For academics, advancing research on cost-effective, culturally adaptive methodologies remains a critical priority. Robust data collection ultimately strengthens the link between evidence and action, ensuring that programs achieve sustainable and measurable impact.

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