**Data Analysis Plan worksheet**

***Analyzing KSRE Program Impacts***

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| **Question or Item Number** | ***What did I hope to learn from this question?*** | ***What analysis technique would assist in that learning?*** | ***How could I present the data to convey what I learned?*** |
| E.g., #2 | If participants felt that they increased their knowledge of best management practices for a healthy yard.  | Count and percentage of respondents who reported “Agree” or “Strongly Agree” | Bar or pie graph that compares “Agree” and “Strongly Agree” responses to “Disagree,” “Strongly Disagree” and “Unsure” responses |
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**Helpful Data Analysis Techniques**

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| ***What do I want to learn from this question?*** | **Possible Analysis Technique** |
| The number of participants who selected a particular response (e.g., “Often,” “Agree”) | Count of responses for each question |
| The proportion of participants who selected a particular response | Percentage (of *N* total responses) |
| How the responses of one group compare to another | Cross-tabulation |
| The average response  | Mean |
| The differences in responses between a pre- and post-test | Differences in counts and/or percentages from pre- to post-test |
| The patterns or themes in responses to open-ended questions | Content analysis of participants’ comments |

**Effective Data Presentation Techniques**

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| ***What do I want to show from my results?*** | **Possible Presentation Technique** |
| A comparison of the number or proportion of participants who selected different responses | Bar graph, line graph, pie chart, frequency table |
| A comparison of the responses of one group to other groups | Bar graph, line graph, pie chart, frequency table |
| A comparison of the responses at one time (e.g., pre-test) to responses of another time (e.g., post-test) | Bar graph, line graph, frequency table |
| The range of participant responses | Frequency table |
| The patterns or themes in open-ended responses | Summary table with sample quotations |

*Example Frequency Table*

Number and percent of participants making recommended dairy nutrient improvements (n=160)

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| --- | --- | --- |
| ***Recommended practice*** | ***Pre-Program*** | ***Post Program*** |
| Balance ration | 75 (47%) |  98 (61%)  |
| Incorporate manure into soil | 30 (19%) | 65 (41%) |

*Example Bar Graph*