

# AnalysisFarrie

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2023-11-13

Reading data with the googlesheets4 package

Delete extra variables

change column names to variables

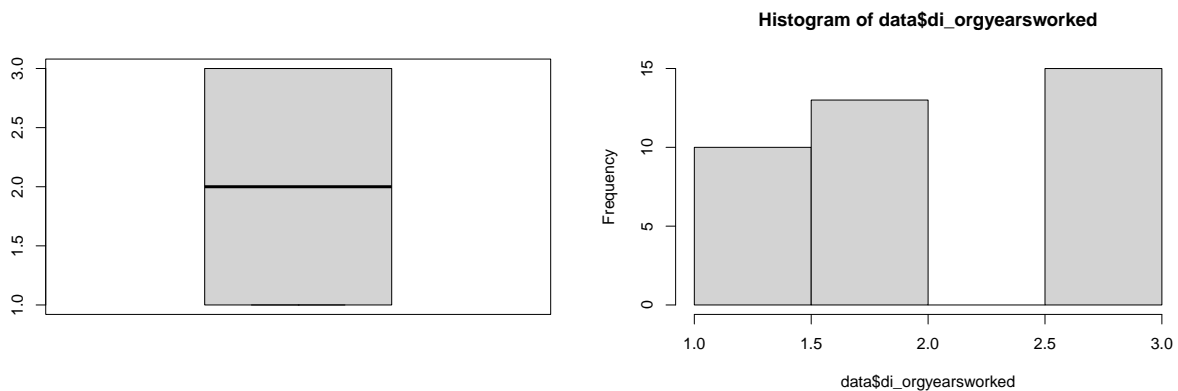
change multiple choice answer into numbers

split check all that apply responses into indicators

Start of Farrie Analysis

**Question: How long have you worked with this organization?**

Boxplot and Histogram of Years Worked



	Measure	Value
1	Mean	2.131579
2	Median	2.000000
3	Mode	3.000000

## Section 2: Demographic Information

### Response Analysis

Question: The following question pertains to minority leadership and service. For the purpose of this question, minority is defined as women, people of color, and immigrants. Which of the following best describes your organization? (please provide your best estimate).?

Percent of respondents stating, "our top executive position is held by a minority"

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	0	18	0	0.4736842
2	1	20	1	0.5263158

Percent of respondents stating, "More than 50% of our board is made up of minorities"

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	0	23	0	0.6052632
2	1	15	1	0.3947368

Percent of respondents stating, "More than 50% of program recipients are minorities"

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	0	17	0	0.4473684
2	1	21	1	0.5526316

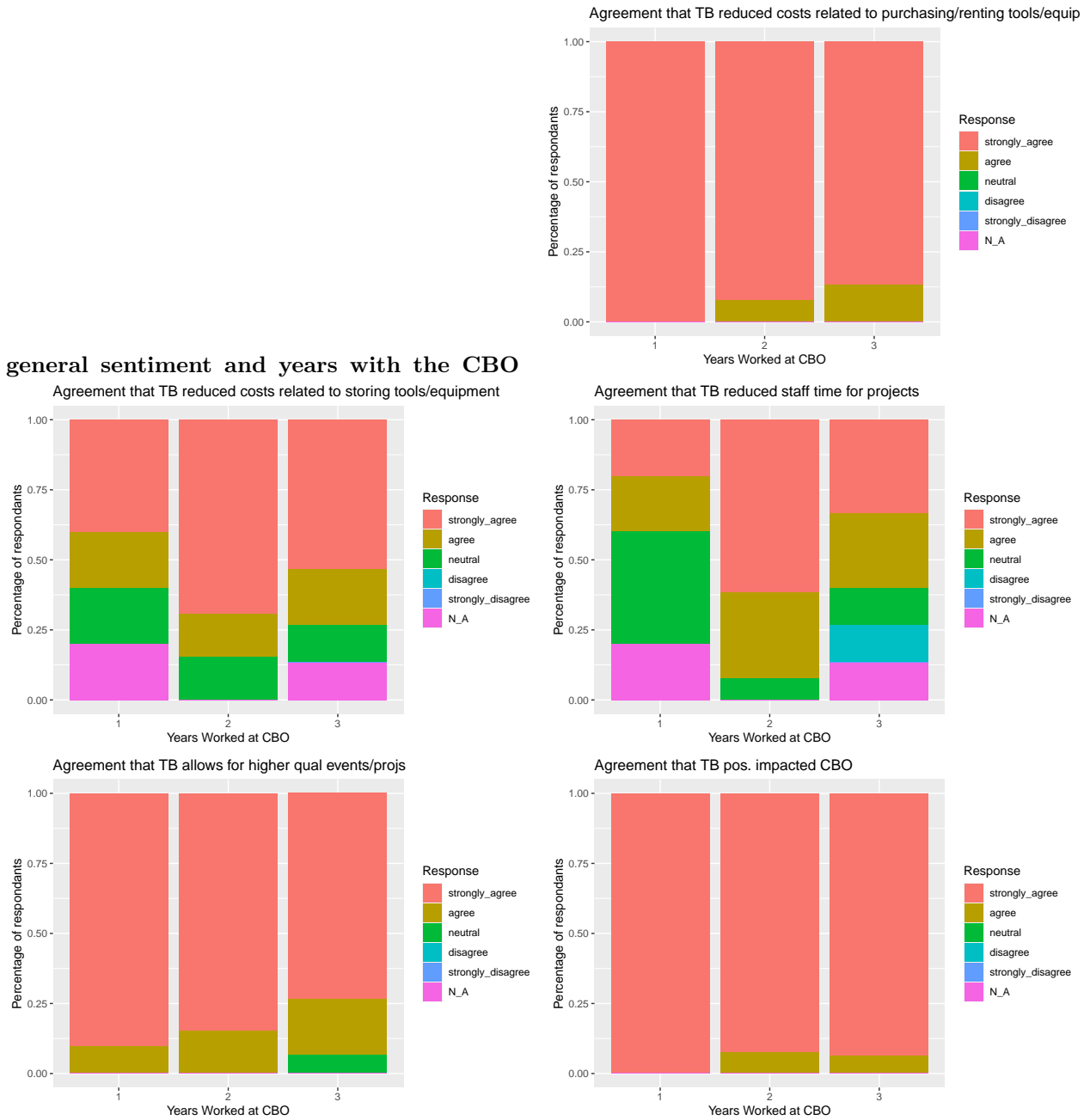
Percent of respondents stating, "None of the above"

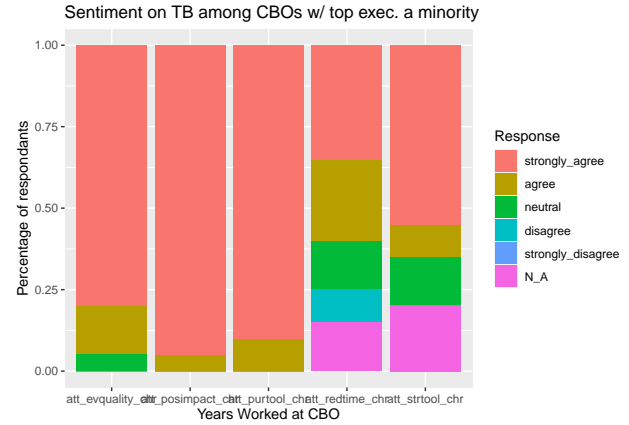
	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	0	33	0	0.8684211
2	1	5	1	0.1315789

Based on the metrics above, 86% of the survey respondents reported to at least of the minority service or leadership criteria.

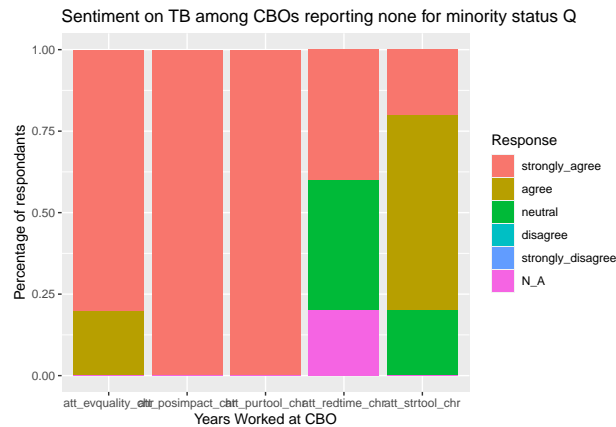
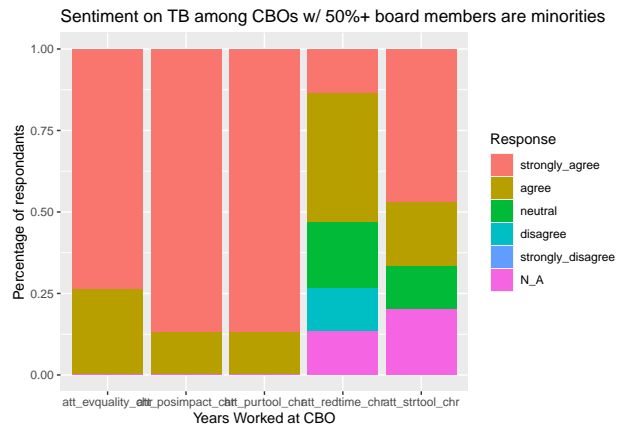
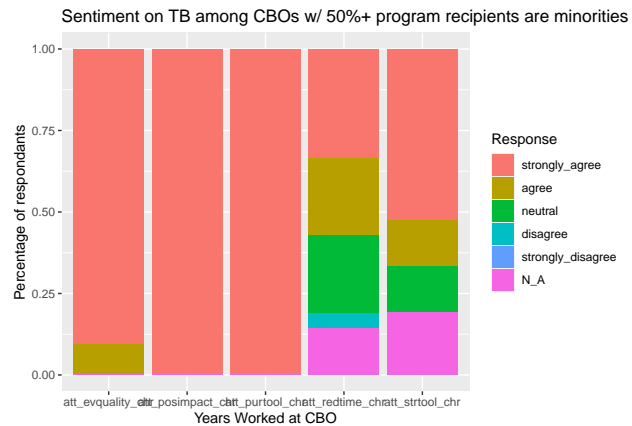
## Plots

### general sentiment and years with the CBO





## general sentiment and minority status



## Section 3: General Attitudes

### Response analysis

Percent of respondents that reported “Agreeing” or “Strongly Agreeing” that, “the ToolBank (TB) has positively impacted our CBO by reducing costs related to purchasing or renting tools and equipment”

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	1	35	1	0.92105263
2	2	3	2	0.07894737

Percent of respondents that reported “Agreeing” or “strongly Agreeing” that, "the TB has positively impacted our CBO by reducing costs related to storing tools and equipment

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	1	21	1	0.5526316
2	2	7	2	0.1842105
3	3	6	3	0.1578947
4	6	4	6	0.1052632

Percent of respondents that reported “Agreeing” or “strongly Agreeing” that, "the TB has positively impacted our CBO by reducing staff time to complete maintenance/projects

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	1	15	1	0.39473684
2	2	10	2	0.26315789
3	3	7	3	0.18421053
4	4	2	4	0.05263158
5	6	4	6	0.10526316

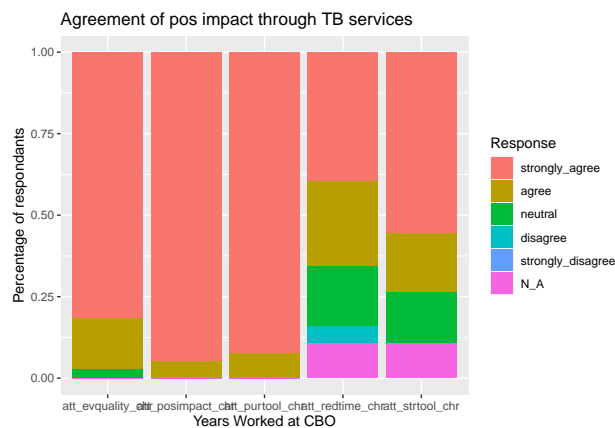
Percent of respondents that reported “Agreeing” or “strongly Agreeing” that, "the Tools made available through the TB allow our CBO to complete higher quality events/projects without additional funding

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	1	31	1	0.81578947
2	2	6	2	0.15789474
3	3	1	3	0.02631579

Question: TB has positively impacted our CBO

	count.Var1	count.Freq	Percentage.Var1	Percentage.Freq
1	1	36	1	0.94736842
2	2	2	2	0.05263158

## Plots

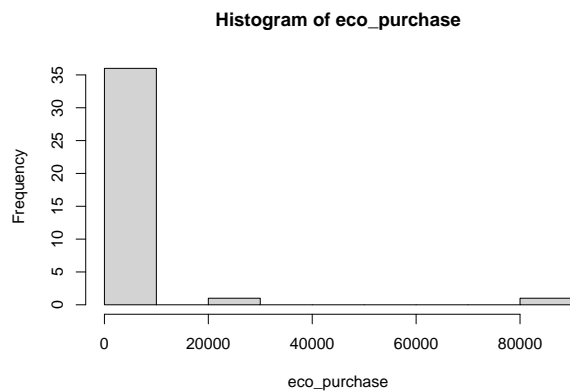


## Section 4: Economic Benefit

### Response analysis

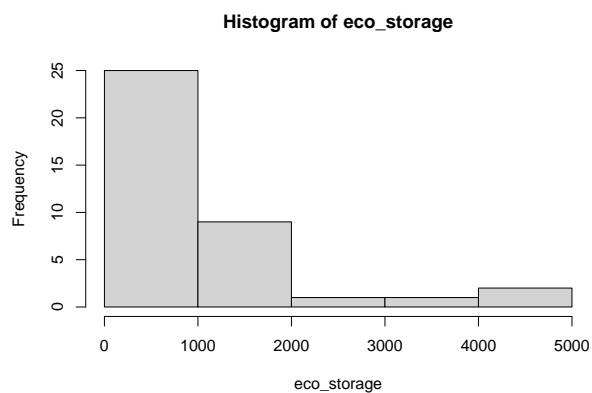
Question: How much would you have spent purchasing or renting tools and equipment had the TB not existed?

	Measure	Value
1	Mean	4955.263
2	Median	2000.000
3	Mode	2000.000



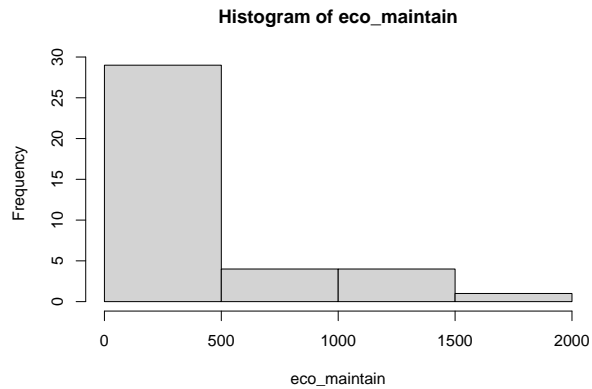
Question: How much would you have spent on storage of tools and equipment had the TB not existed ?

	Measure	Value
1	Mean	1009.211
2	Median	500.000
3	Mode	0.000



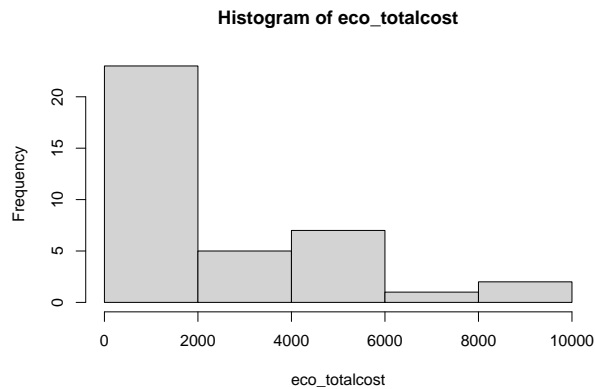
Question: How much would you have spent on maintenance of tools and equipment had the TB not existed?

	Measure	Value
1	Mean	495.2632
2	Median	500.0000
3	Mode	500.0000



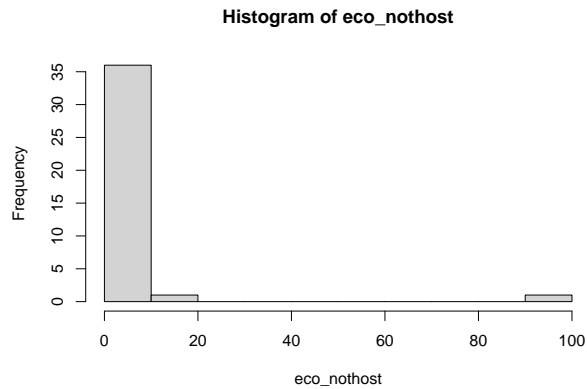
Question: Reflecting on your events in the past year: If the TB did not exist, how much funding would your organization allocate to buying, storing, tracking and maintaining your own inventory of tools and equipment?

Measure	Value
1 Mean	2626.842
2 Median	2000.000
3 Mode	5000.000



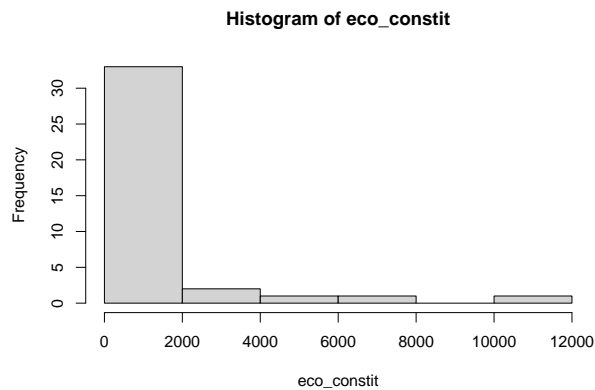
Question: If there were no TB, how many of your events in the past year would you not have been hosted for any reason?

Measure	Value
1 Mean	5.552632
2 Median	2.000000
3 Mode	0.000000



Questions: If there were no TB, how many of your constituents, including volunteers, members, and event attendees, would have been negatively impacted in the past year?

Measure	Value
1 Max	12000.000
2 Min	0.000
3 Range	12000.000
4 Mean	1051.053
5 Median	137.500
6 Mode	100.000



Calculated:

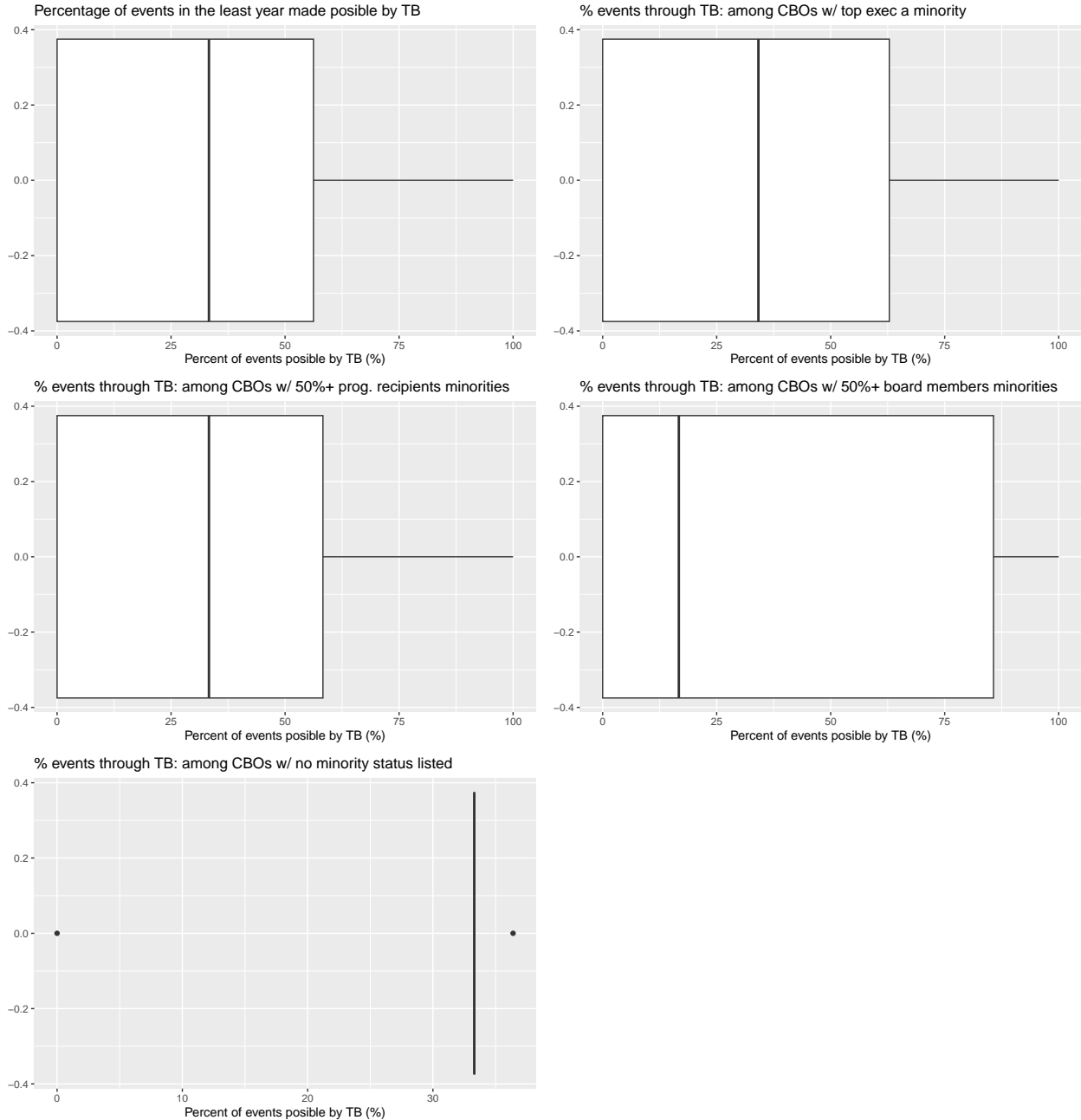
Reflecting on your events in the past year, how many events did your organization host?

If there were no TB, how many of your events in the past year would you not have been able to host?

What percentage of the events hosted last year did the TB help make possible? ### Plots

```
# A tibble: 1 x 1
  'Average % of a CBO's events possible through TB in past year'
  <dbl>
1 34.7
```





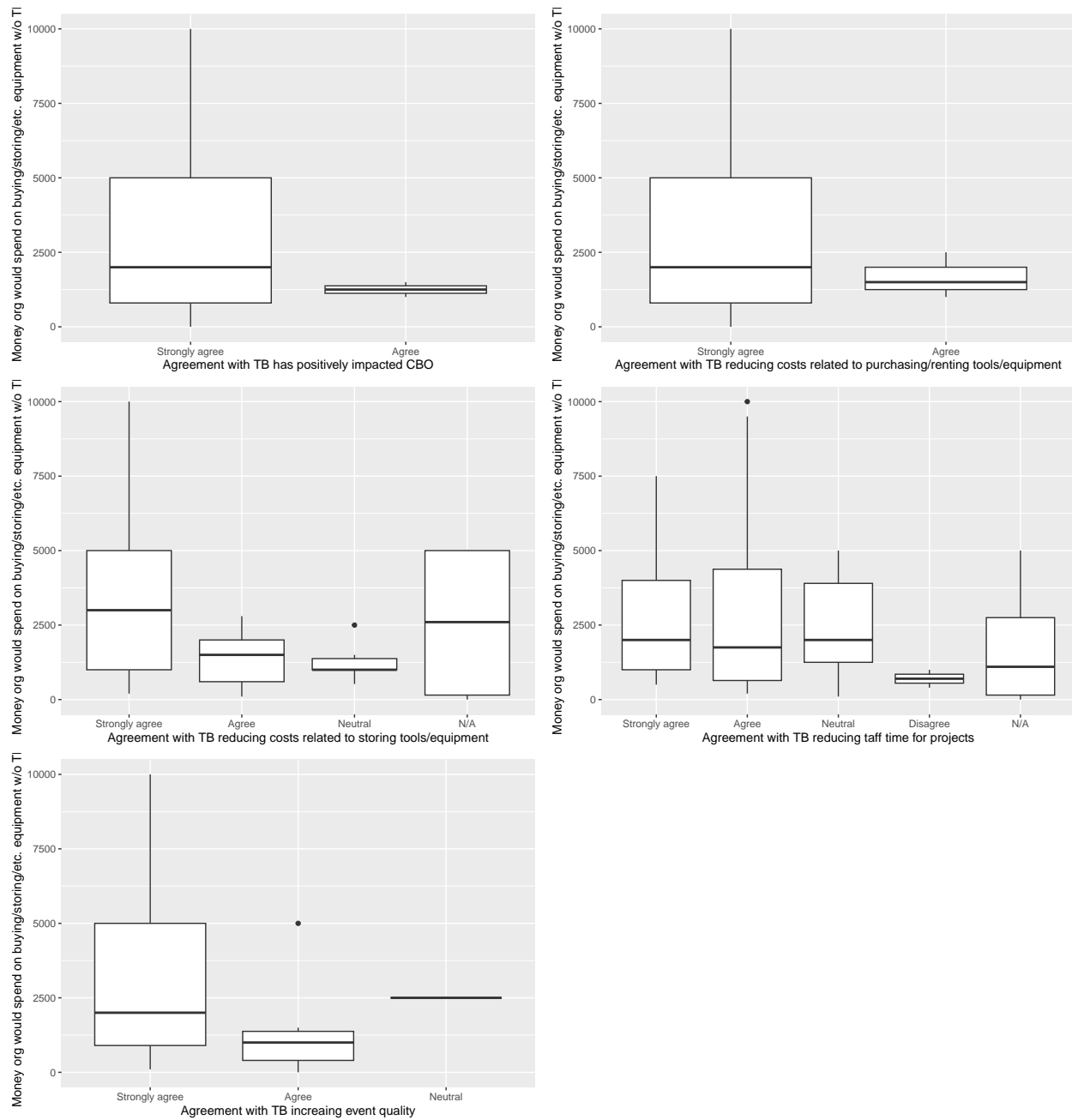
## Section 5: Community Impact

Question: With the money that you have saved on purchasing, storing, and maintaining tools and equipment, what have you been able to accomplish?

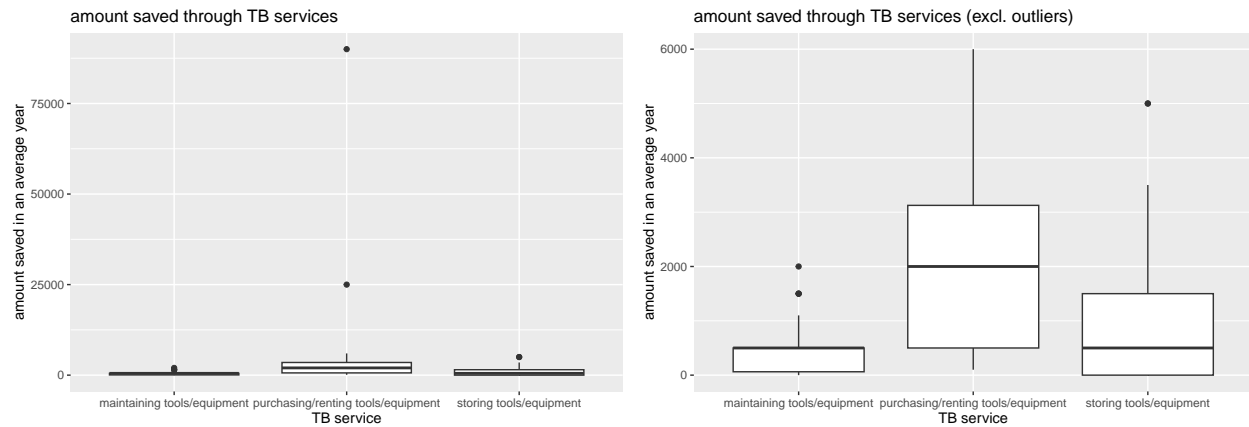
Question: Without the TB, what would you no longer be able to fund?

## Analysis surrounding questions

Question: do organizations with higher savings through toolbank report more of a positive impact?



Question: How do savings vary by different toolbank offerings?



Question: What is the relationship like between minority-led CBOs and the toolbank compared to non-minority led CBOs?

Question: where within the organization does the Toolbank impact most?

Histogram, faceted by responded staff versus responded projects– can incorporate “Other” if consistent across organizations X = number (of staff or projects) Facet: Without the TB, what would you no longer be able to fund? (code note: will also have to manipulate data a bit to get this)

Question: In what ways has the community benefited through the toolbank? What are the most prominent types of events (or organization types) the toolbank supports?

2 bar chart X1 = ways of impact; X2 = event types Y = % respondent Can incorporate other if there is consistency across respondents