## A Summertime Guide to Descriptive Statistics

## What are descriptive statistics?

## Characteristics of a set of information

- Example: If we looked at the characteristics of a population
- LCCMR Members
- What kinds of information might we want to know?
- Height
- Age
- Favorite ice cream flavor


## Or

## How to talk about members' scores of LCCMR proposals

## RANGE

MINIMUM


No Points

## MAXIMUM



All the points!

# CENTRAL TENDENCY-or what makes everyone (mostly) happy 

## MEAN

- AKA-the average of a set of numbers
- Sensitive to extremes
- The sum of a set of values/the number of a set of values
member scores added together for each project the number LCCMR members


## MEAN

Using actual scores from a project:
$(92+60+100+0+1+80+100+98+0+40+10+81+5+100+0+100+15)$
17
=
52

## MEDIAN

- The middle value of a set of numbers
- Less sensitive to extremes (resistant)
- To find the median of member scores, line up all 17 scores by highest to lowest, find the value in the middle spot


## MEDIAN

$92,60,100,0,1,80,100,98,0,40,10,81,5,100,0,100,15$
$100,100,100,100,98,92,81,80,60,40,15,10,5,1,0,0,0$
Median: 60

## CENTRAL SUMMARY

- Both mean and median are valid statistical techniques
- Mean is swayed by extremes
- Median is more resistant to extremes


## LCCMR SCORES DATA TRENDS

- Lots of variation in the scores
- Nearly every project had a minimum of 0 or 1 and a maximum of 100
- There was a lot of variation within each individual members' scores
- Lots of different interests and ideas for caring for Minnesota's environment and natural resources

