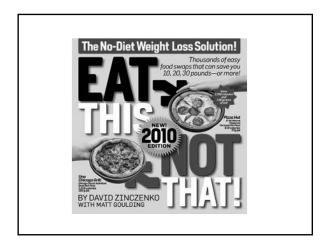
Statistics 101 Maureen Berner, Ph.D. School of Government	
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Why Statistics 101? Evaluating the record Reviewing evidence Examining the findings and conclusions reached	
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Why Statistics 101? Evaluating the record Reviewing evidence Examining the findings and conclusions reached	
Did the evidence support the decision? Statistics may be part of the story	

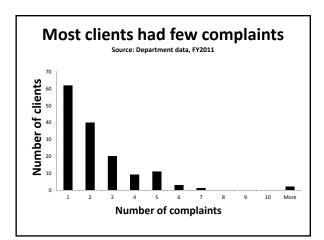
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Why Statistics 101?	
Example: Challenges to local WMOB preference	
Legality Evidence of Disparity Evidence of Disparity Local Data (number and types of qualified and available contractors vs. contractors used) Local government gathering such data and analyzing it appropriately	
Why Statistics 101?	
"The legal system in general, and judges in particular, become the audience for local government data gathering and analysis."	
Our Focus	
What are statisticsHow they are used/abusedWhat to watch (out) forWhere to go for help	

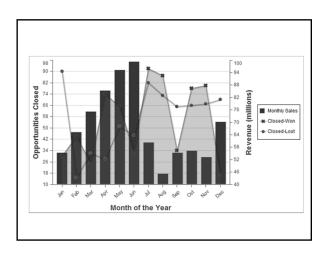
Statistics	
Just bits of information	
Just bits of information	
Meaningless without context	
How are they used?	
now are they asea:	
To describe – descriptive	
statistics	
T . 1. C C	
To infer - inferential statistics	
Two Main Types	
Two Main Types	
Descriptive	
Summarize a lot of information into a few key facts to paint a	
picture quickly and easily	

Two Main Types	
Inferential	
Infer something about the	
larger population from a smaller set of data; to infer a	
connection or relationship	
Descriptive – what is typical?	
Mean	
cu.	
Median	
<u>.</u>	
Mode	
	<u> </u>
Descriptive – Is there variation?	
A little or a lot?	
_	
Range	
Standard deviation	
	

Inferential – Is there a link?	
Correlation	
Causation (regression and	
friends)	
Inferential – Is this result]
important?	
Statistical Significance	
- Consideration Cigimical Consideration	
Material significance	
How are Statistics abused?	
Tiow are statistics abuseu:	
When they only give part of the picture	
·	
When they are used to imply or even claim representation or	
connections that aren't really there	







Summary

- Statistics are just Information
- Used for <u>description</u> or <u>infer</u>ence NOT proof,
- Look for specifics, lots of solid information from unbiased sources, and context
- SOG can help