



FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative



Results & Discussion

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Reflection Exercise

Pair up with one other person

Discuss the what statistical tests you might use for your research

Answer the following questions:

What type of data do you have?

Which test might you use for your data? Why?

Writing a Results Section

1. Identify important info
2. Organize it chronologically
3. Create graphs and figures
4. Describe other results in text
5. Summarize stats, use p-value
6. Number figures and tables
7. Create section headings
8. Accuracy, brevity, clarity



How to Write Results

Include the test statistic, degrees of freedom, and p-value for all tests:

“There was a significant difference between the treatment groups ($F_{4,28} = 33.58$, $p\text{-value} < 0.001$).”

When reporting regression coefficients, report the confidence interval along with the p-value:

“Total biomass had a positive effect on cattle body size ($\beta = 3.24$ [2.11 – 4.37], $p\text{-value} < 0.01$).”

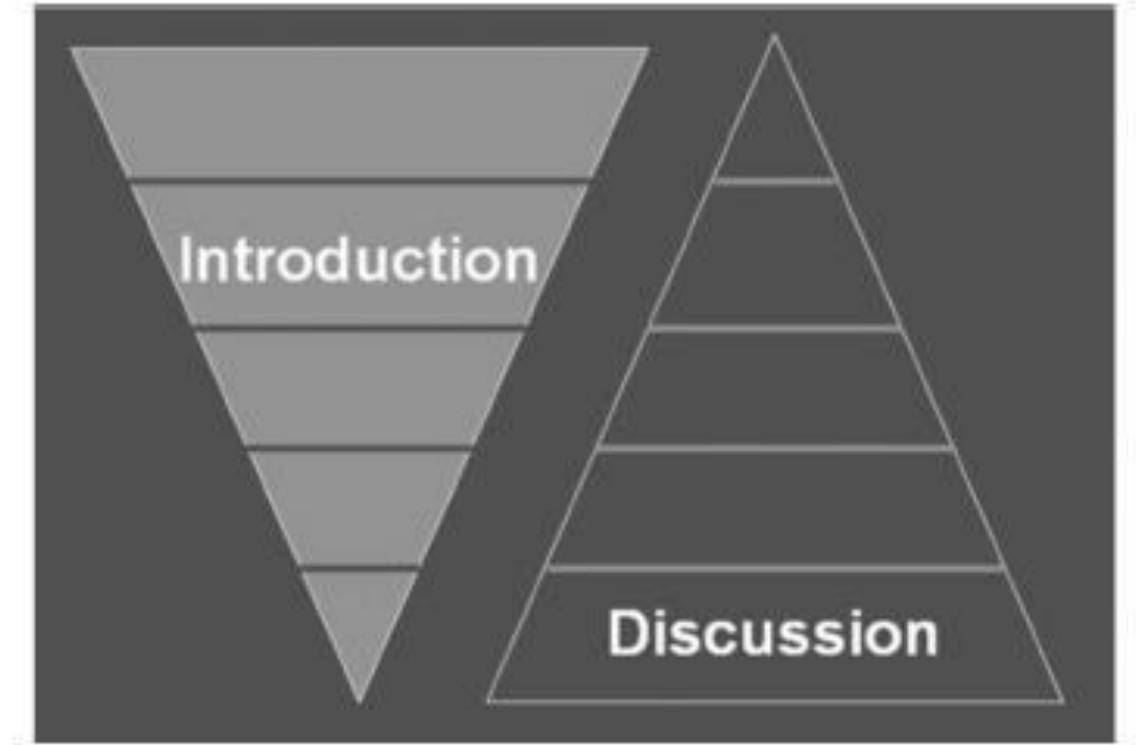
“Total biomass had a positive effect on cattle body size ($\beta = 3.24 \pm 1.13$, $p\text{-value} < 0.01$).”

Summarize results in text, and draw on the figures and tables to illustrate points

“There was a positive relationship between X and Y (Figure 1a), but a lack of relationship between Z and Y (Figure 1b)...”

Writing a Discussion Section

- From specific to general
- Use present tense, key terms
- Re-state hypothesis
- Describe major patterns
- Interpret why
- Connect to lit when needed
- Emphasize importance
- Provide recommendations
- Concise, brief, specific



Discussion Section

- Summary of findings: “our results demonstrate that...” “the findings confirm...”
- Comparison with prior studies: “Our case sheds a new light on...”
- Limitations of your work: “It presents some limitations due to...”
- Casual arguments: “It is notable that...” “This may improve aspects of...”
- Speculations: “It is unclear whether this is suitable for...”
- Deductive arguments: “This may be the reason why we did not find...”
- Future work: “To date, this remains unknown...”
- Conservation, management, social implications