Data visualization by Hannah Osinga

State of Oregon Research Academy | December 8, 2022

Agenda



My story and process



5 tips for a great data visualization



Makeover exercise



Resources and questions

My story

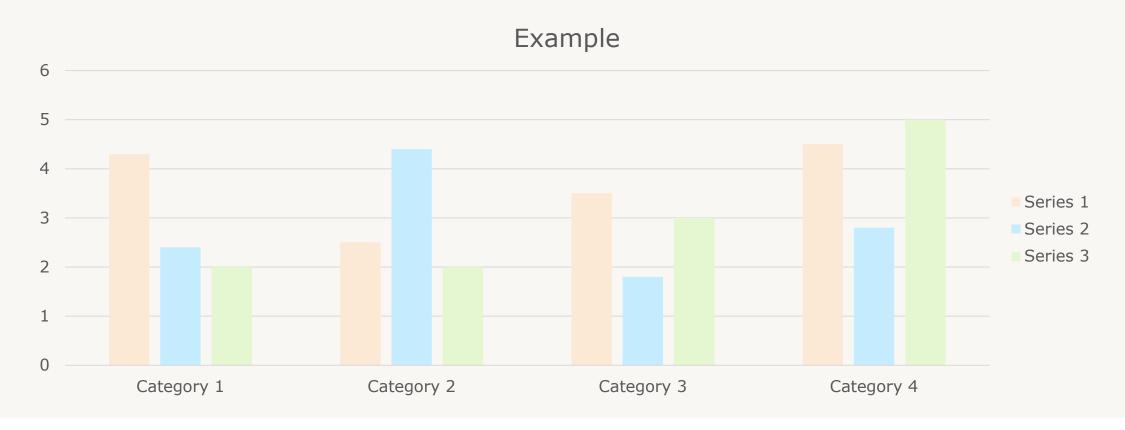
Today

Data visualization nerd!



My story

5 years ago: Data visualization novice!



(1) A data visualization is needed.

1 A data visualization is needed.

57% response rate

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A data visualization is needed.

57% response rate

Our 57% survey response rate is strong!



(1) A data visualization is needed.

2) We know the audience and what we'll be asking of them or informing them.

WARNING



Good data visualizations often take time to make.

Plan time for that into your schedule.

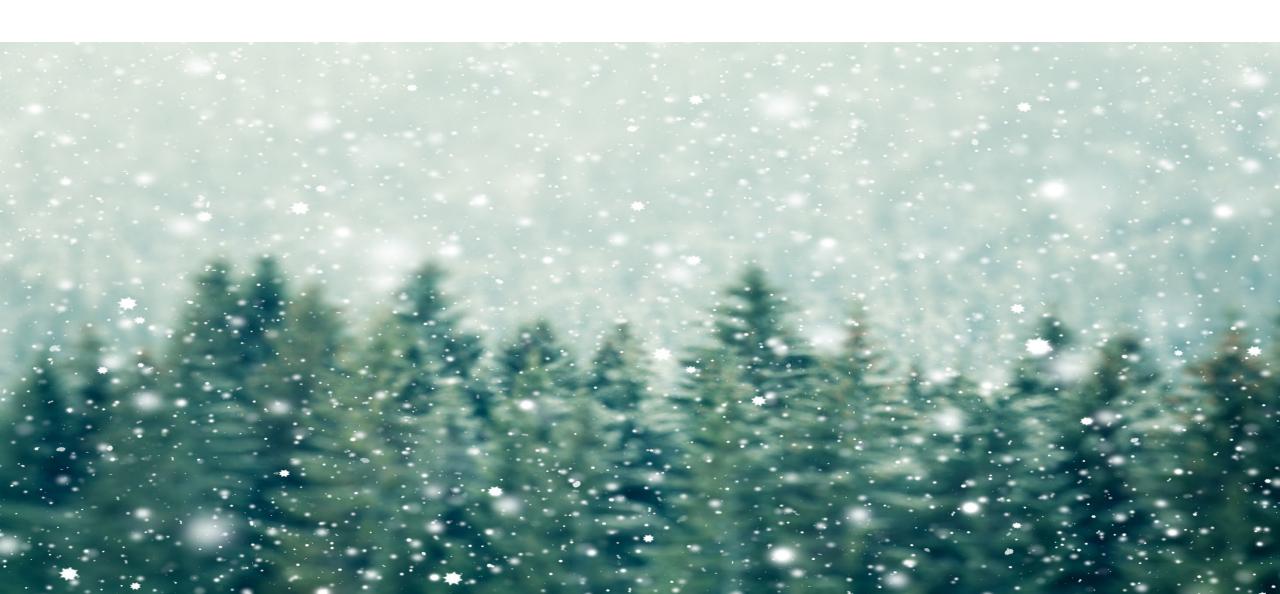
1 Use a takeaway title.

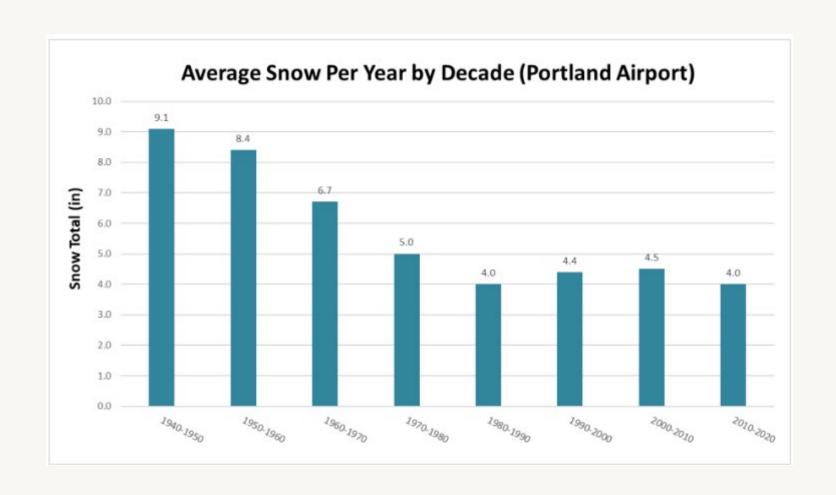
- 1 Use a takeaway title.
- 2 Label your data series directly.

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- 3 Label your axis.

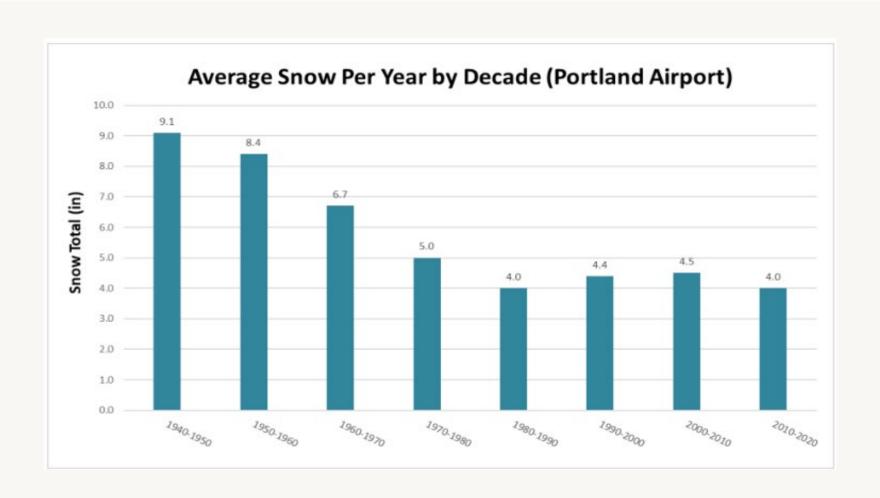
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- 3 Label your axis.
- 4 Use color to differentiate your data points.

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- **5** Look for opportunities to remove clutter.



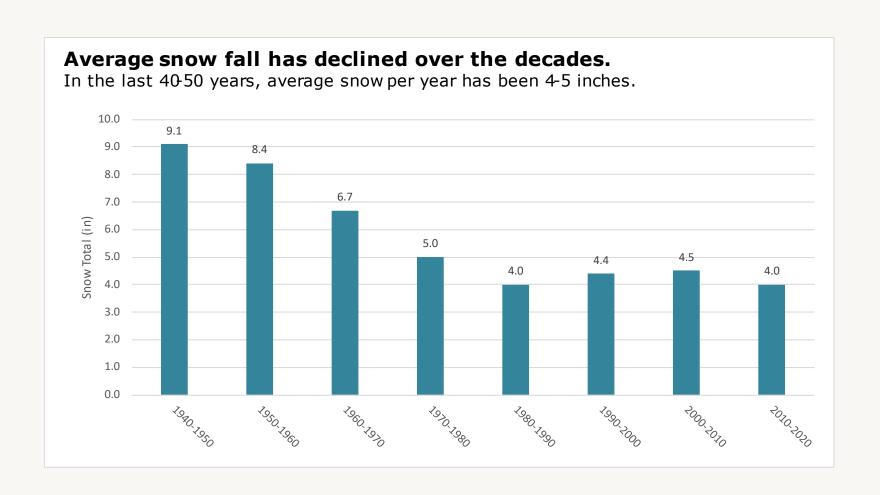


Source: https://www.koin.com/weather/portland-oregon-2022-2023-winter-outlook/



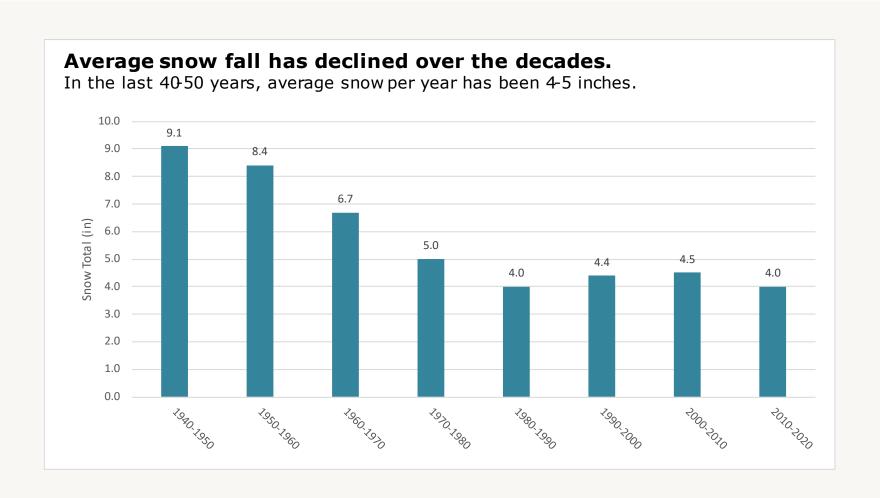
TIP 1

Use a takeaway title.



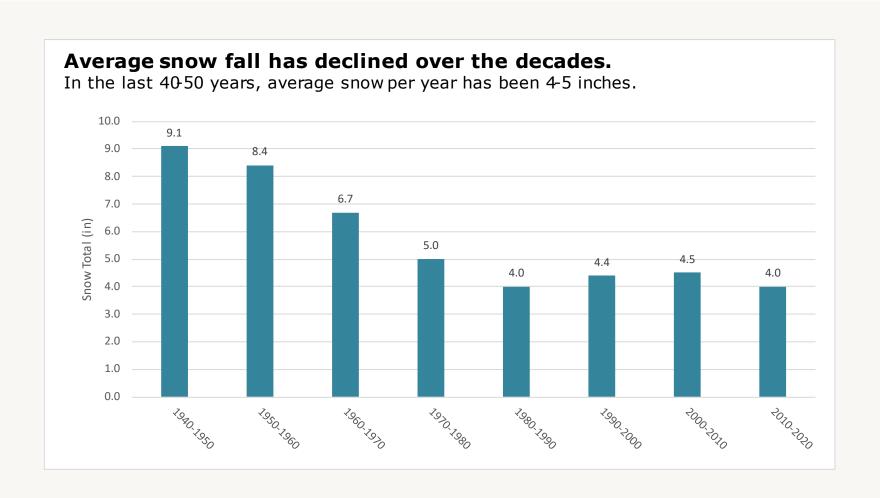
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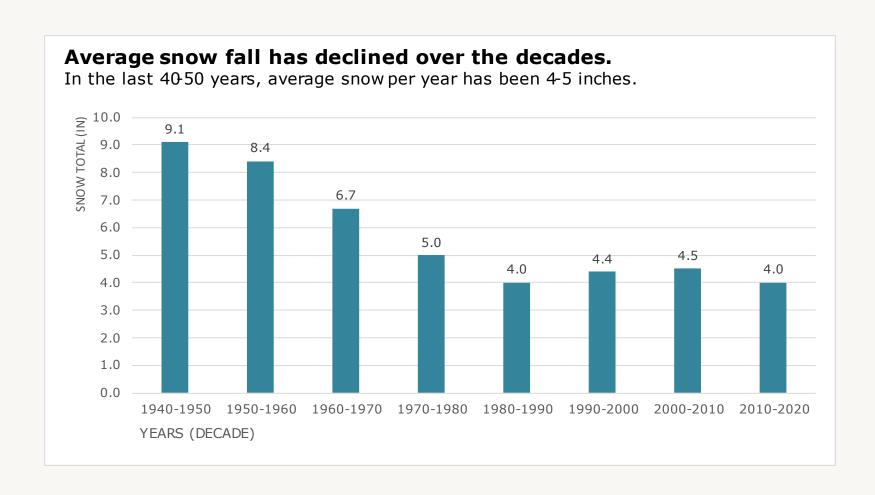
TIP ²

Label your data series directly.



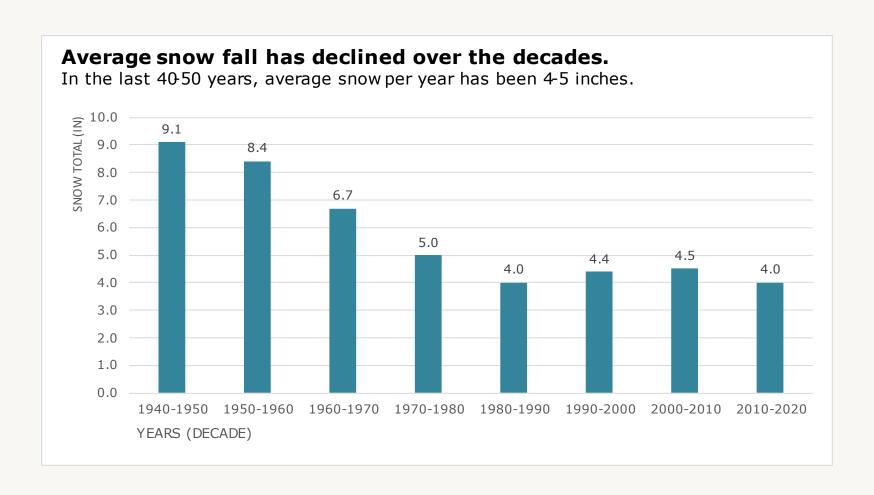
TIP (

Label your axis.



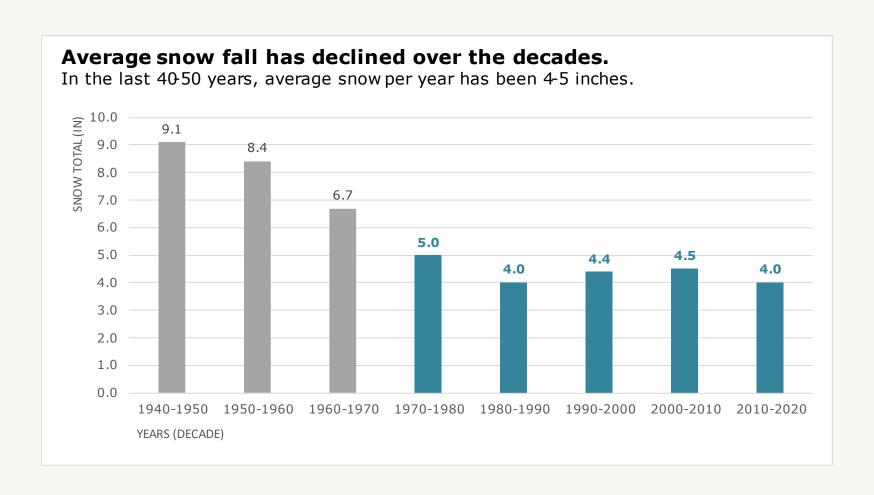
TIP 3

Label your axis.



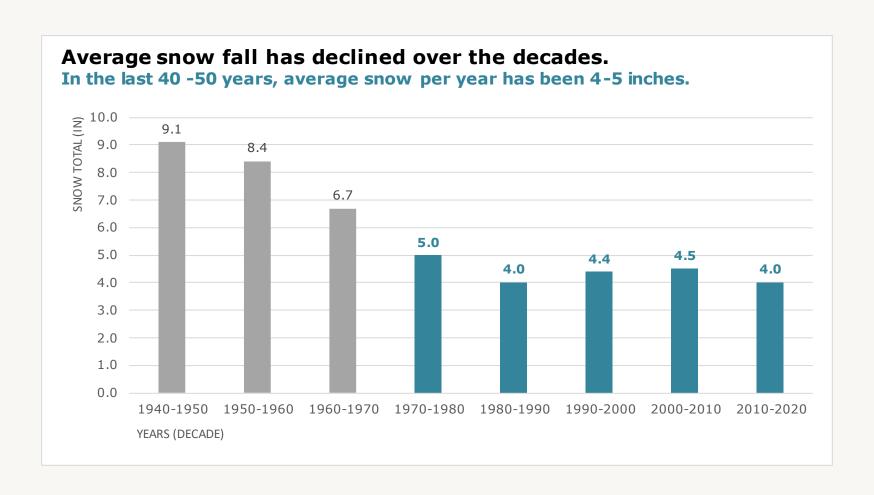
TIP 4

Use color to differentiate your data points.



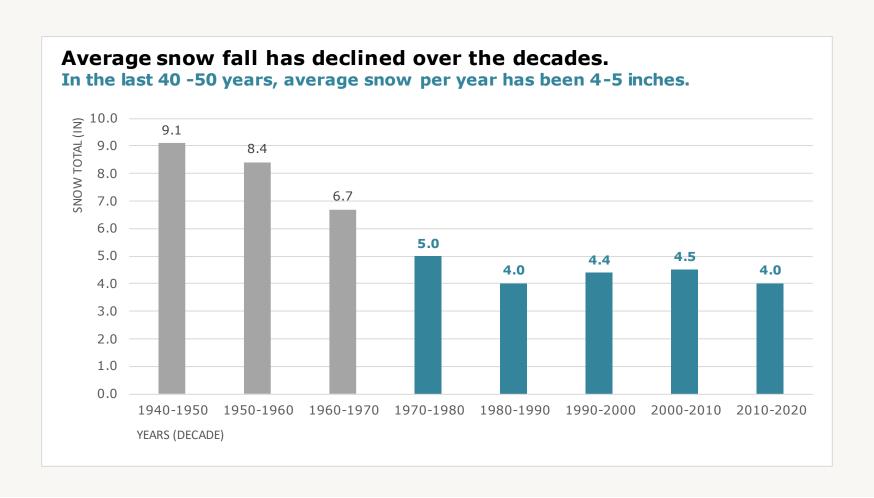
TIP 4

Use color to differentiate your data points.

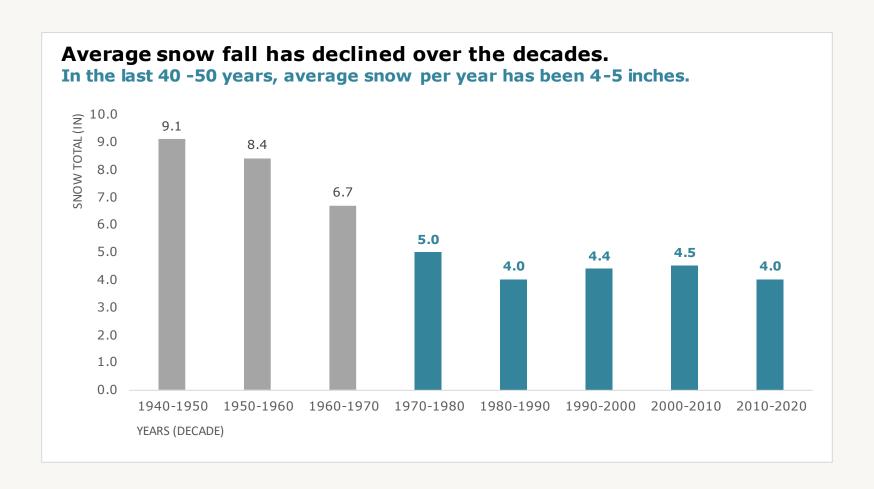


TIP (

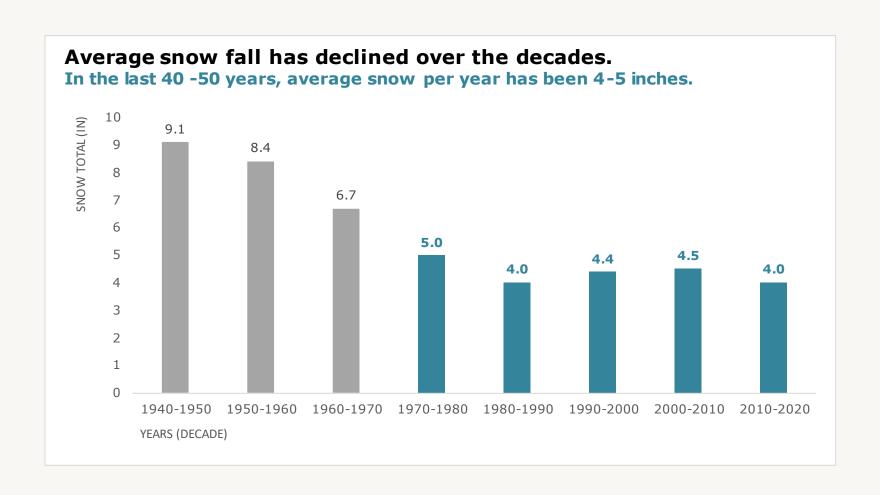
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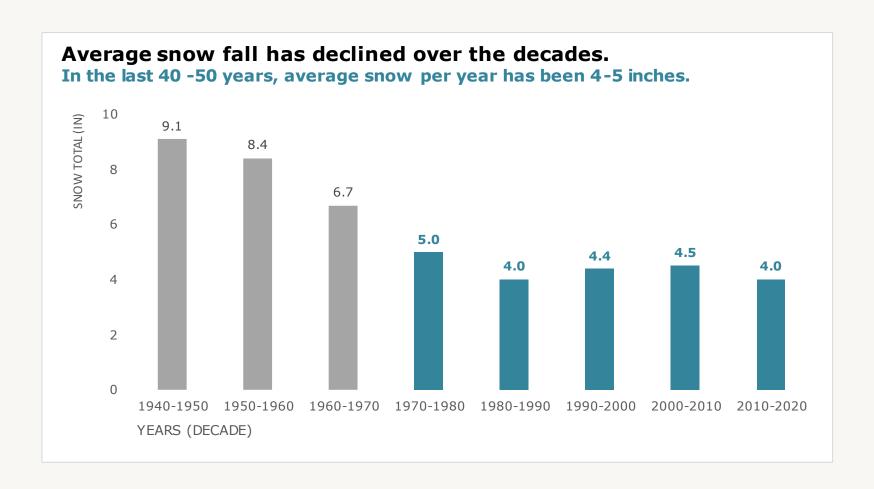
TIP 5



TIP 5

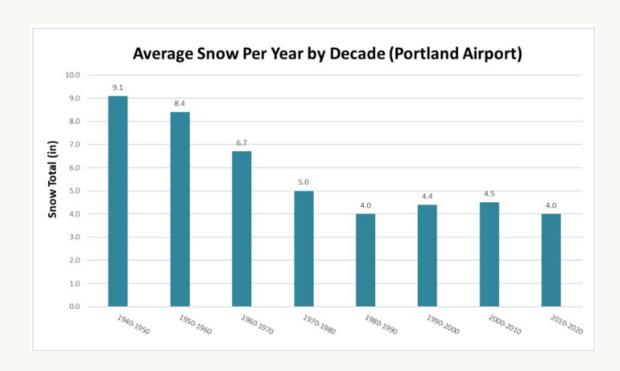


TIP 5

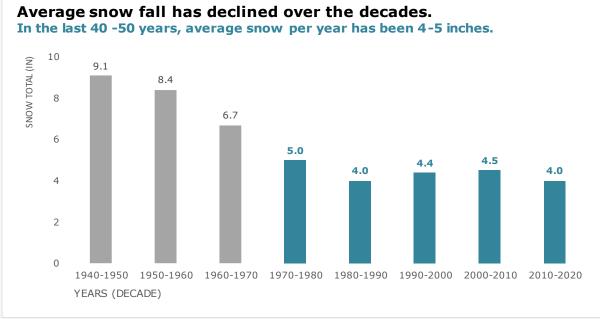


TIP 5

BEFORE



AFTER



Resources

Storytelling with data by Cole Nussbaumer Knaflic

Blog (https://www.storytellingwithdata.com/) and books

- Storytelling with Data: A Data visualization Guide for Business Professionals
- Storytelling with Data: Let's Practice
- Storytelling with You

EvergreenData by Stephanie Evergreen

Blog (https://stephanieevergreen.com/) and books

- Presenting Data Effectively
- Effective Data Visualization

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