

Updated April 1 Snow Averages

Sean de Guzman
DWR Snow Surveys

Overview

- ▶ **Introduction** – Why are we updating?
- ▶ **Method** – How are the averages updated?
- ▶ **Results** – What are the new averages?
- ▶ **Discussion** – What do the results mean?
- ▶ **Conclusion** – What does this mean moving into the future?

Why are we updating?

- ▶ Last updated in 2000
 - ▶ Includes data from 1951-2000
- ▶ Try to update 50-year averages every five years
- ▶ Period of record for updated averages
 - ▶ 1961-2010



How are the averages updated?

- ▶ The fancy technical sounding way

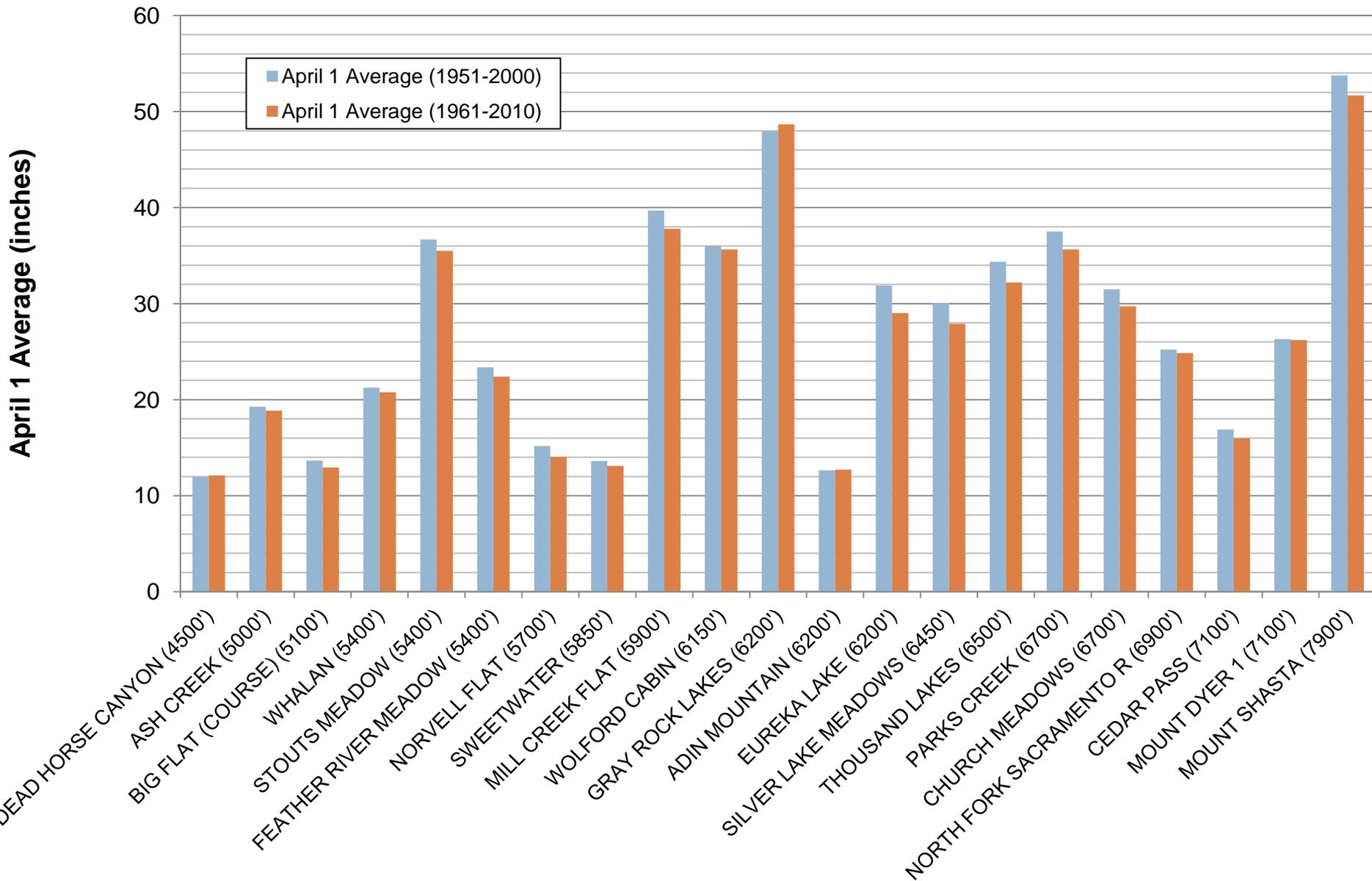
- ▶ Arithmetic Mean

$$\bar{x} = \frac{1}{N} \sum_{i=1}^N x_i$$

- ▶ What it sounds like to everyone else

- ▶ Average

Northern Region - Comparison of 50-year April 1 Averages



Introduction

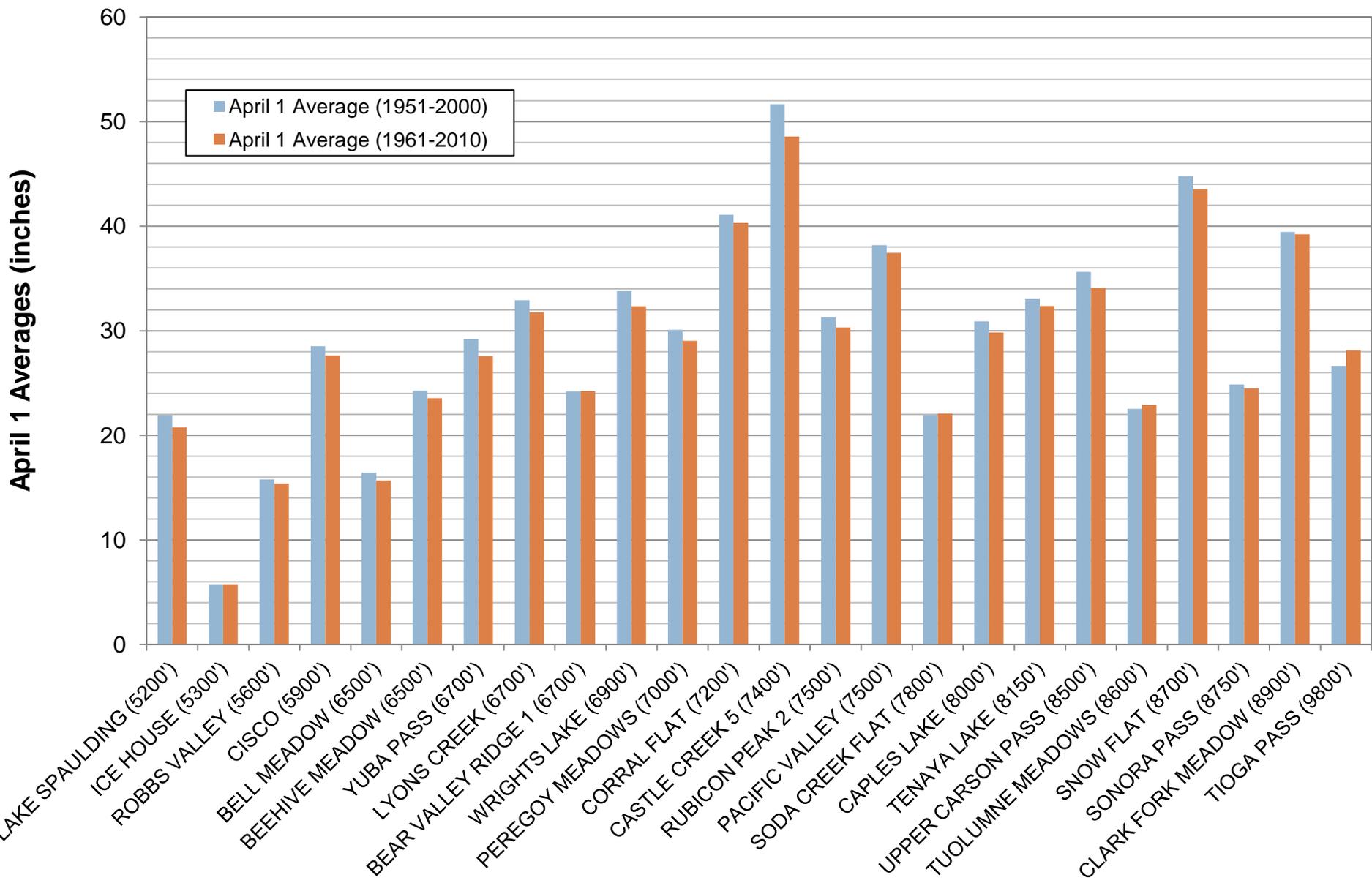
Method

Results

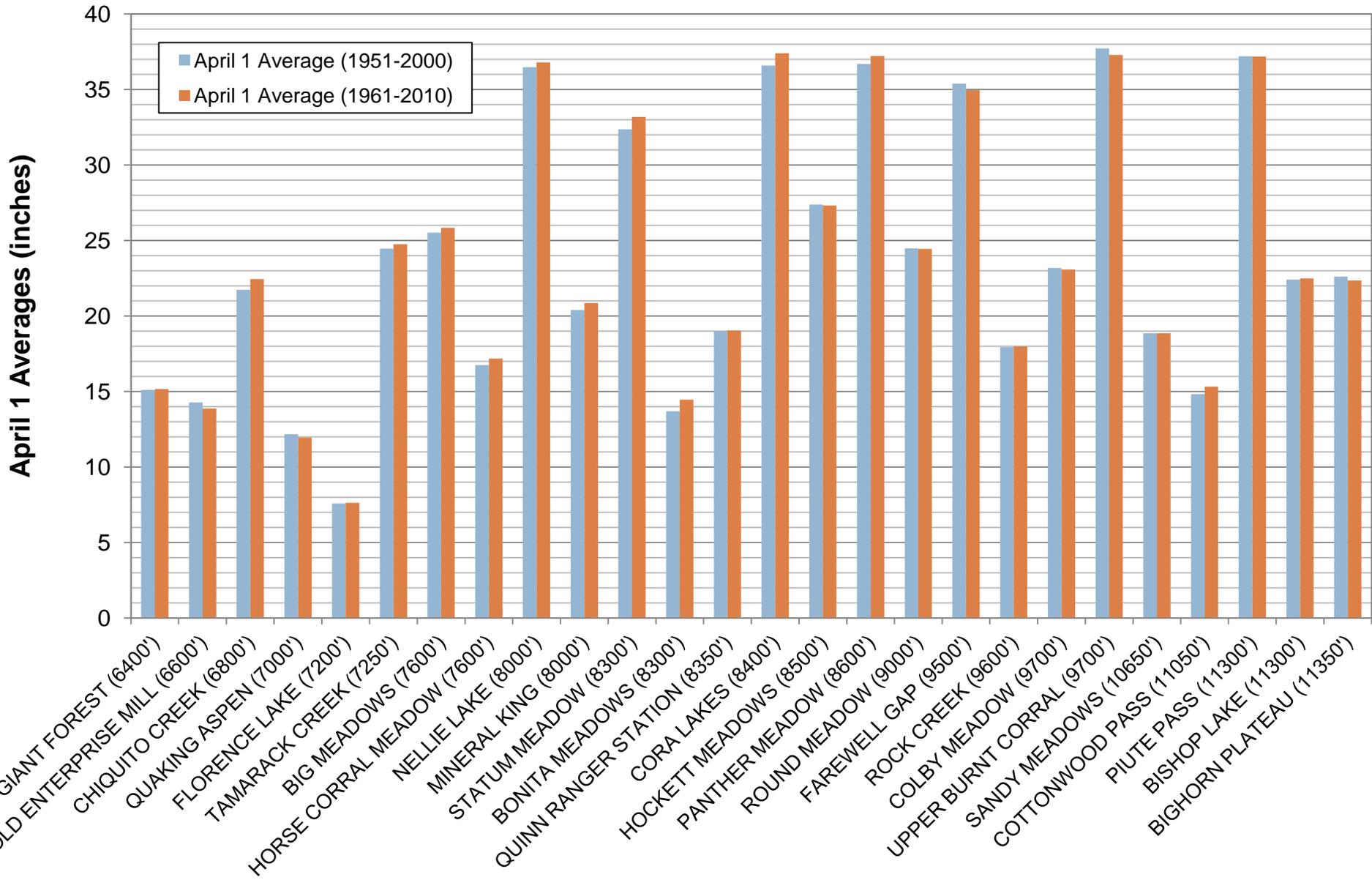
Discussion

Conclusion

Central Region - Comparison of 50-year April 1 Averages



Southern Region - Comparison of 50-year April 1 Averages



What do the results mean?

Region	Percent of April 1 Averages that decreased from 1951-2000 to 1961-2010
Northern	92%
Central	82%
Southern	43%

- ▶ Majority of April 1 Averages in Northern and Central Regions decreased
- ▶ One wet or dry year could skew the data
- ▶ 1951-1960 vs. 2001-2010

What does this mean moving into the future?

- ▶ Won't use new updated averages during WY2014
- ▶ 50-year precipitation averages still need to updated



Questions?