

Why do birch trees die in Berlin?

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Why this topic?

I like to walk...



...and observe





November 2020



February 2024



November 2020



February 2024

Question



Birch trees are
so typical here!



Range of birch tree (*Betula pendula*)





Impact of climate changes?

Weather parameters



Precipitation

(water from the sky ;)



Temperature

Case study object:

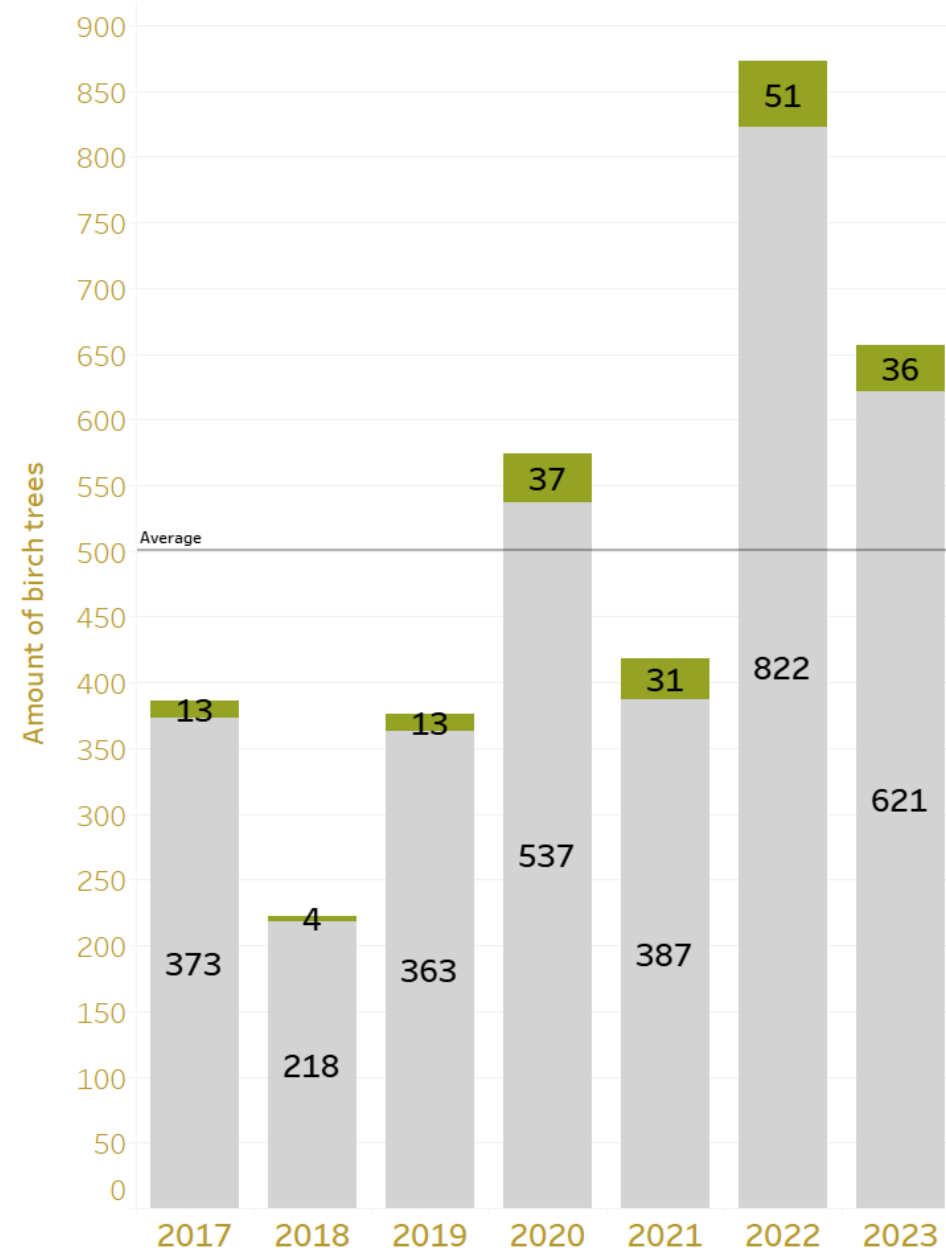
Berlin district

Friedrichshain-Kreuzberg

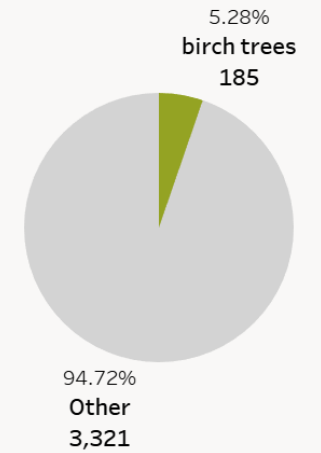


What about
birch trees?

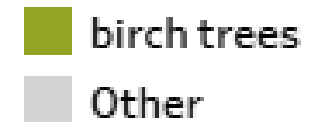
Amount of felled birch trees



All felled birch trees in the last 7 years



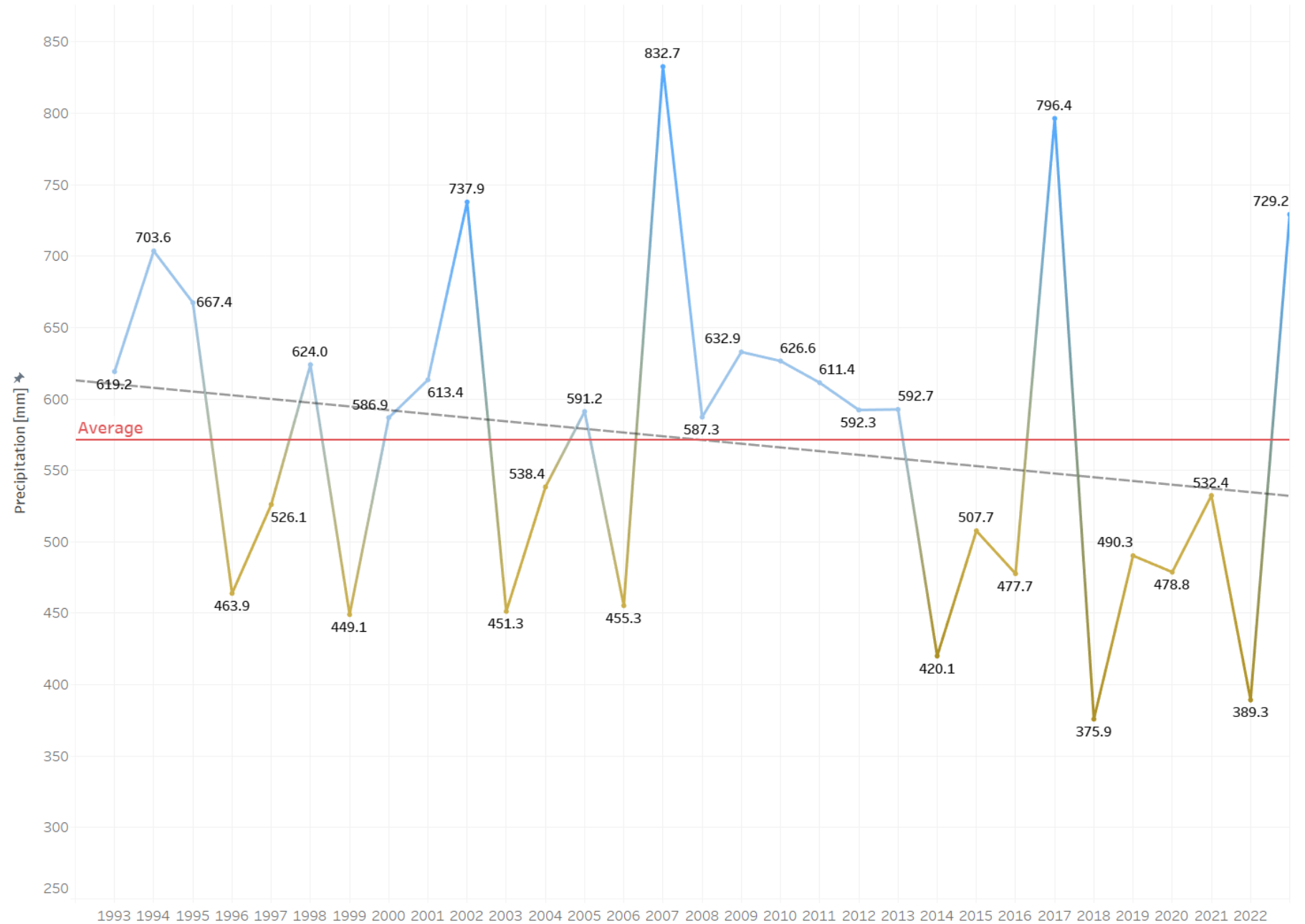
Birch trees vs Other trees





Water

Annual precipitation in the last 30 years

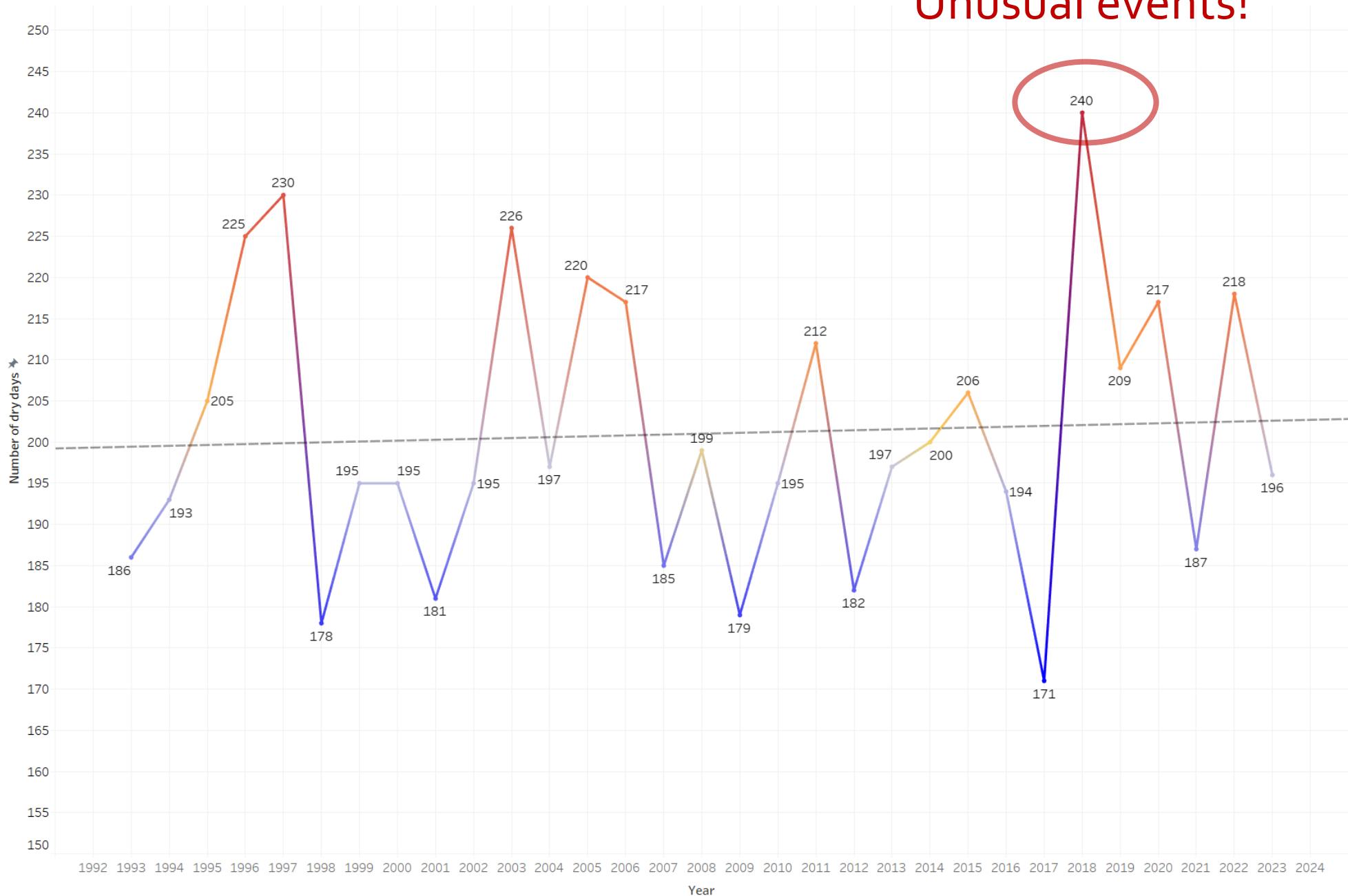




Water

Dry days (precipitation = 0 mm)

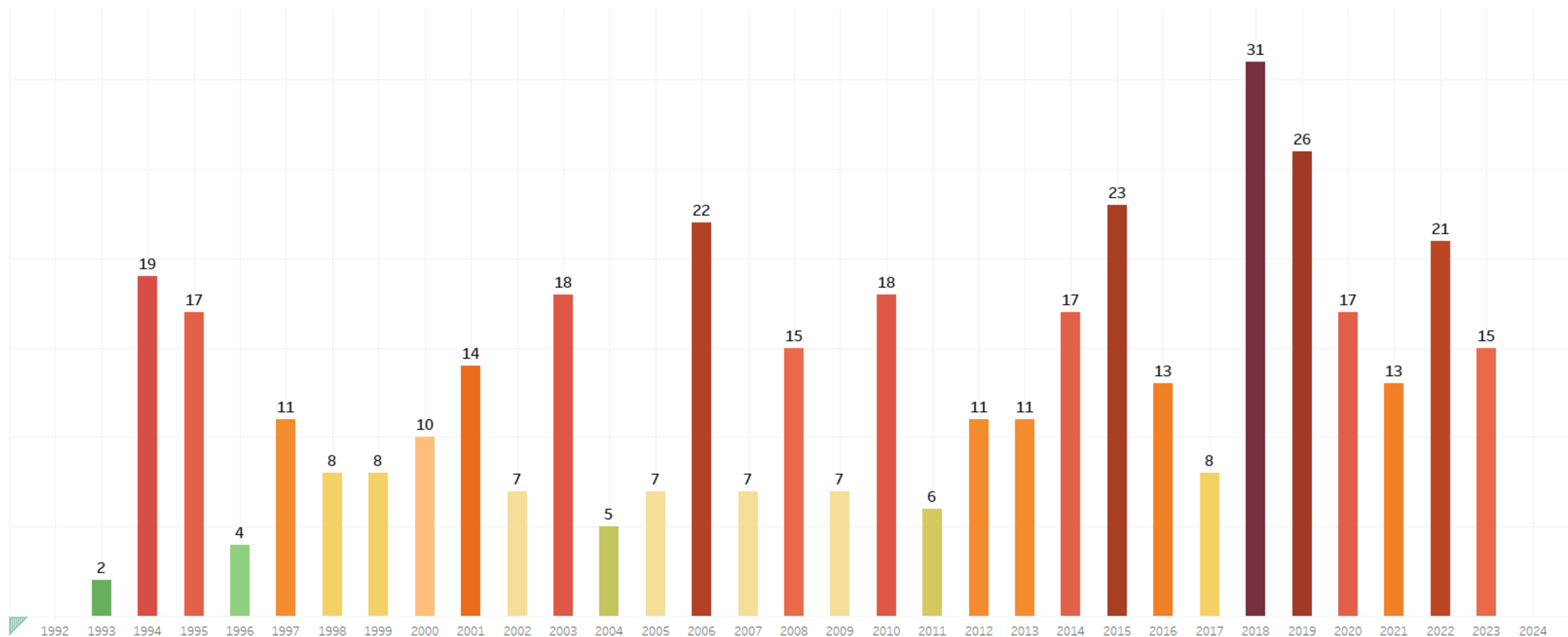
Unusual events!





Temperature

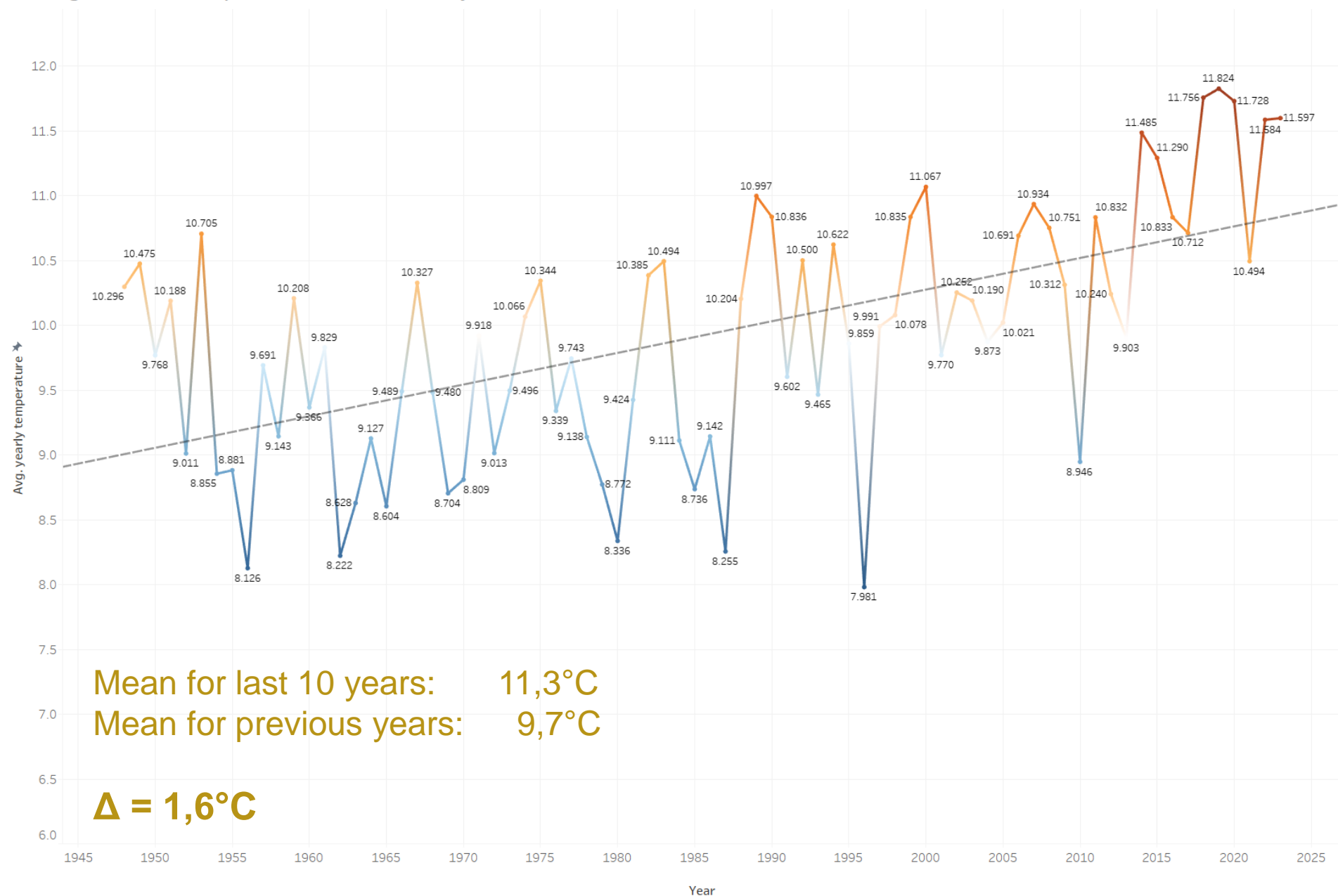
Amount of hot days per year (hot day > 30°C)





Temperature

Average annual temperature over last 75 years





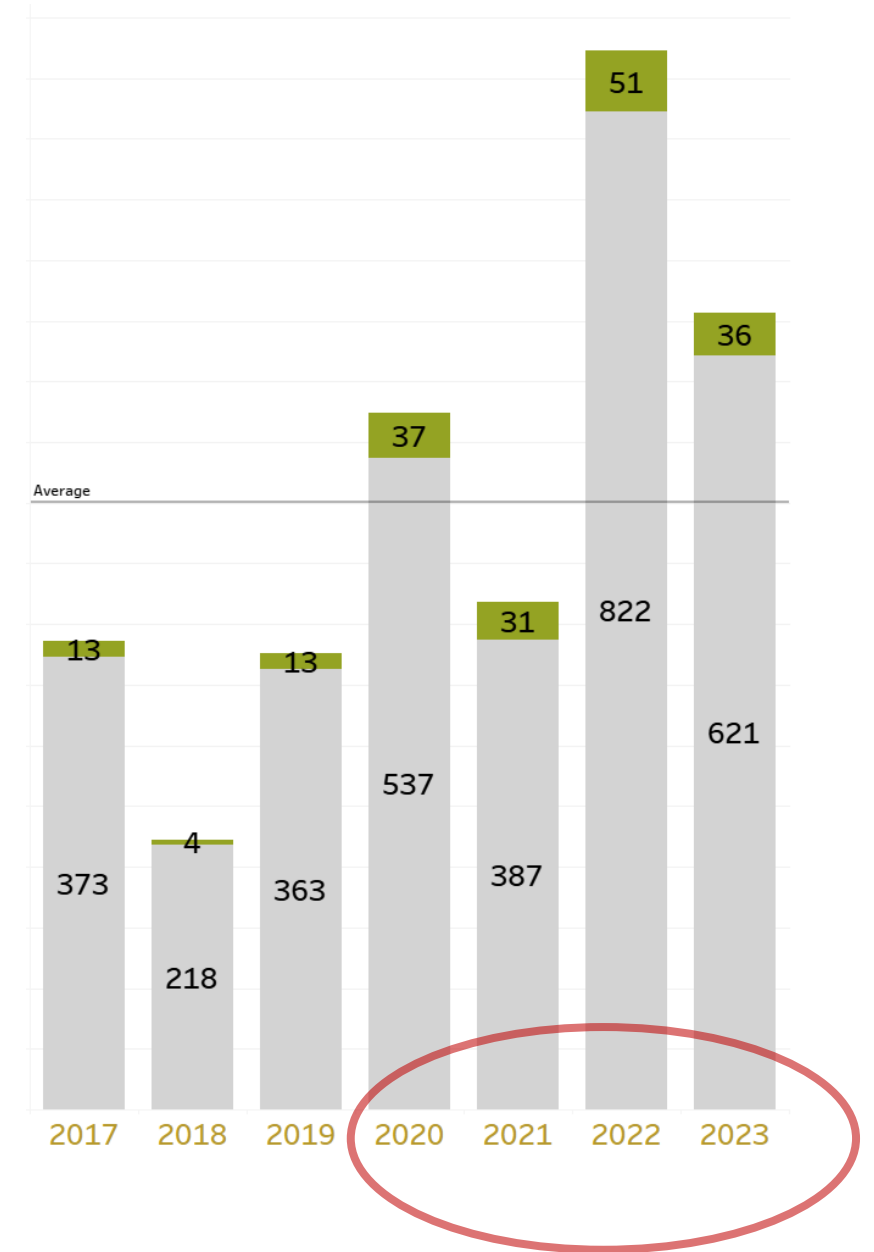
Conclusions



- **Higher temperature**
- **More hot days**



- **Less water**
- **More often no rain**



Thank you
for your attention!

