Spring 2022 conditions in CMIP6 climate projections
Spring 2022 Conditions

Pacific Northwest - Mean Temperature
April-June 2022 Departure from 1981-2010 Normal

WestWide Drought Tracker - U Idaho/WRCC Data Source - PRISM (Prelim), created 16 JUL 2022
Spring 2022 Conditions

Pacific Northwest - Precipitation
April-June 2022 Percent of 1981-2010 Normal

WestWide Drought Tracker - U Idaho/WRCC Data Source - PRISM (Prelim), created 16 JUL 2022
Spring 2022 Conditions

COLD & WET

Will we experience this in the future?
If so, how often?
Future Conditions

Global Climate Models

photo source
Future Conditions

Total Radiative Forcing in GCM Scenarios

- SSP5-85
- RCP 8.5
- SSP4-60
- RCP 6.0
- SSP2-45
- RCP 4.5
- SSP1-26
- RCP 2.6
- SSP1-19
- OBS

Year

W/m²
Future Conditions

Projected change in average spring Temperature (°F) for the Pacific Northwest in the 2050s relative to 1950-1999

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<th>Projected Change in Temperature (°F)</th>
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Warming is projected for all scenarios. Differences among the scenarios are greatest at the end of the century, and the warming will be greatest during summer months.

GHG Scenario
- Very Low
- Low
- Medium
- High

Location
- Global
- Pacific Northwest
- West of the Cascades
- East of the Cascades

Year
- 2050s
- 2080s

Season
- Annual
- Winter
- Spring
- Summer
- Fall

Suggested Citation: Rogers, M., Mauger, G.S. 2021. Pacific Northwest Climate Projection Tool. University of Washington Climate Impacts Group.
Future Conditions

Projected change in average spring Temperature (°F) for the Pacific Northwest in the 2080s relative to 1950-1999

Warming is projected for all scenarios. Differences among the scenarios are greatest at the end of the century, and the warming will be greatest during summer months.

Suggested Citation: Rogers, M., Mauger, G.S. 2021. Pacific Northwest Climate Projection Tool. University of Washington Climate Impacts Group.
Precipitation Projections are mixed, with some models projecting wetter conditions and some projecting drier. However, a majority of models project increases in precipitation for winter, spring, and fall precipitation and decreases in summer precipitation.
Future Conditions

Projected change in total spring Precipitation (%) for the Pacific Northwest in the 2080s relative to 1950-1999

Precipitation Projections are mixed, with some models projecting wetter conditions and some projecting drier. However, a majority of models project increases in precipitation for winter, spring, and fall precipitation and decreases in summer precipitation.
Future Conditions

AMJ Temperature Anomalies

- ssp245 2080s
- historical (1991-2020)
Future Conditions

AMJ Temperature Anomalies

- ssp585 2080s
- historical (1991-2020)
Future Conditions

AMJ Total Precipitation % of Normal

- Green: ssp245 2080s
- Blue: historical (1991-2020)
Summary

COLD & WET

...only slightly, and includes uncertainty!