



Analyze the FWI focusing on both current trends and projections for the mid-century (2045-2054) to assess the potential increase in fire danger due to climate change in Beaverton, Oregon

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The Fire Weather Index (FWI) in Beaverton, Oregon, and the surrounding Pacific Northwest region is projected to increase significantly by mid-century due to climate change, indicating a higher potential for fire danger.

Current trends show an increasing frequency and intensity of wildfires in Oregon. From 1989 to 2016, Bend, Oregon onl per year with air quality that was unhealthy for s or worse due to wildfire smoke. However, from 2017 to 2022, this



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jumped to 9.7 days per year, a 24.2-fold increase ¹. Similar trends have been observed in other parts of Oregon, including Portland, which had not experienced any USG days from wildfire smoke before 2015 ¹.

Projections for mid-century (2041-2070) indicate a substantial increase in fire danger for the Pacific Northwest, including Beaverton:

1. Increased frequency of "very large fire weeks": The number of weeks with conditions favorable for very large fires is expected to increase up to sixfold in parts of the West, including Northern California and the Pacific Northwest ².
2. Extended fire seasons: The wildfire season is projected to start earlier and end later, with larger fires than in the past ¹.
3. Worsening fire danger conditions: Even under a 1.5°C global warming scenario, fire danger is predicted to be consistently worse than at present, with fuels transitioning to drier complexes more prone to forest fires ⁴.
4. Expansion of high-risk areas: Areas with high-to-extreme fire danger are expected to expand notably, even under the most conservative warming scenarios ⁴.

These projections suggest that Beaverton and the surrounding region will likely face increased fire danger by mid-century, with more frequent and intense wildfires, longer fire seasons, and potentially more days with poor air quality due to wildfire smoke.

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The Fire Weather Index (FWI) in Beaverton, Oregon, and the surrounding Pacific Northwest region is projected to increase significantly by mid-century, indicating a higher potential for fire danger due to climate change.

Current Trends

While the search results don't provide specific current FWI data for Beaverton, we can infer regional trends from the

1. Seasonal variations: The FWI values show across seasons, with summer generally having the highest values,



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Analyze the FWI focusing on both current trends and projections for the mid-century (2045-2054) to assess the potential increase in fire danger due to climate change in Beaverton, Oregon followed by autumn, spring, and winter.

2. Increasing fire danger: Many grid points in the dataset show an upward trend in FWI values from the historical period to the mid-century projections, particularly in summer and autumn.

Mid-Century Projections (2045-2054)

The data suggests several key changes in fire danger for the mid-century period:

1. Summer fire danger increase: Most data points show a substantial increase in summer FWI values. For example, R382C098 projects a 54.27% increase, while R438C055 shows a 2.68% increase ¹⁰.
2. Extended fire seasons: Autumn FWI values are projected to increase in many areas, suggesting a potential lengthening of the fire season. R438C055 shows a 22.96% increase in autumn FWI ¹⁰.
3. Spring fire danger: Many locations show significant increases in spring FWI values, with some areas experiencing over 50% increase (e.g., R438C055 shows a 62.37% increase) ¹⁰.
4. Spatial variability: The magnitude of change varies across different grid points, indicating that some areas may experience more dramatic increases in fire danger than others.

Implications for Beaverton, Oregon

While the data doesn't specifically isolate Beaverton, we can draw some conclusions based on the regional trends:

1. Increased fire risk: Beaverton is likely to experience increased fire danger, particularly during summer and potential autumn and spring.





2. **Longer fire seasons:** The fire season may start earlier and end later, with elevated fire danger persisting for more extended periods.
3. **More frequent extreme fire weather:** The projected increases in FWI values suggest that conditions conducive to large, intense fires may become more common.
4. **Increased wildfire smoke:** Higher fire danger in the region could lead to more frequent and intense wildfires, potentially increasing the number of days with poor air quality due to smoke in Beaverton.
5. **Need for adaptation:** The projected changes highlight the importance of implementing fire prevention strategies, improving forest management practices, and enhancing community preparedness for wildfires in Beaverton and surrounding areas.

In conclusion, the FWI projections indicate a significant increase in fire danger for Beaverton, Oregon, by mid-century due to climate change. This underscores the need for proactive measures to mitigate fire risk and adapt to changing environmental conditions.

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