



Data Analysis of Saskatchewan Crops



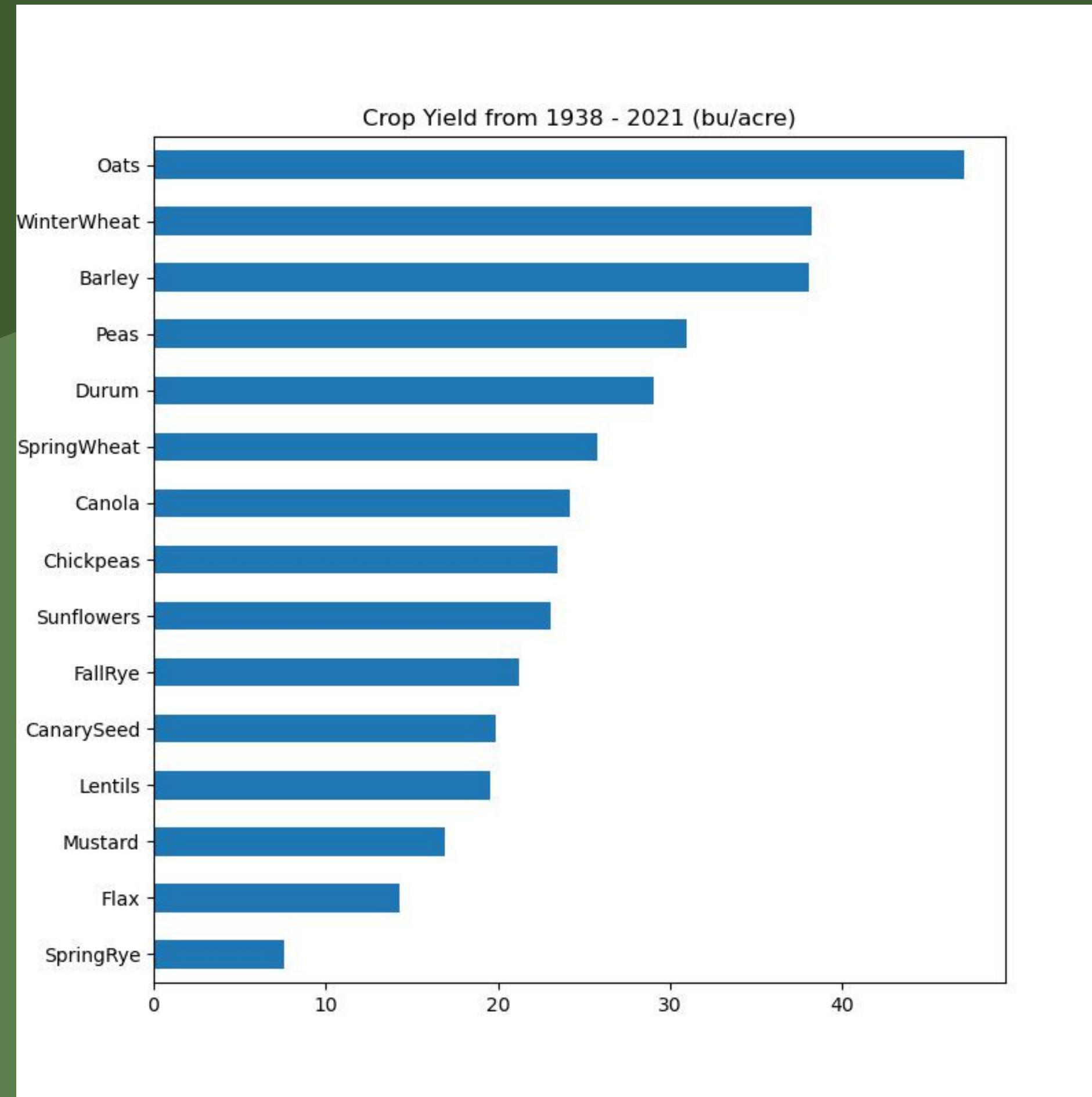
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Saskatchewan is the breadbasket of Canada. It is among the world's largest exporter of various field crops.

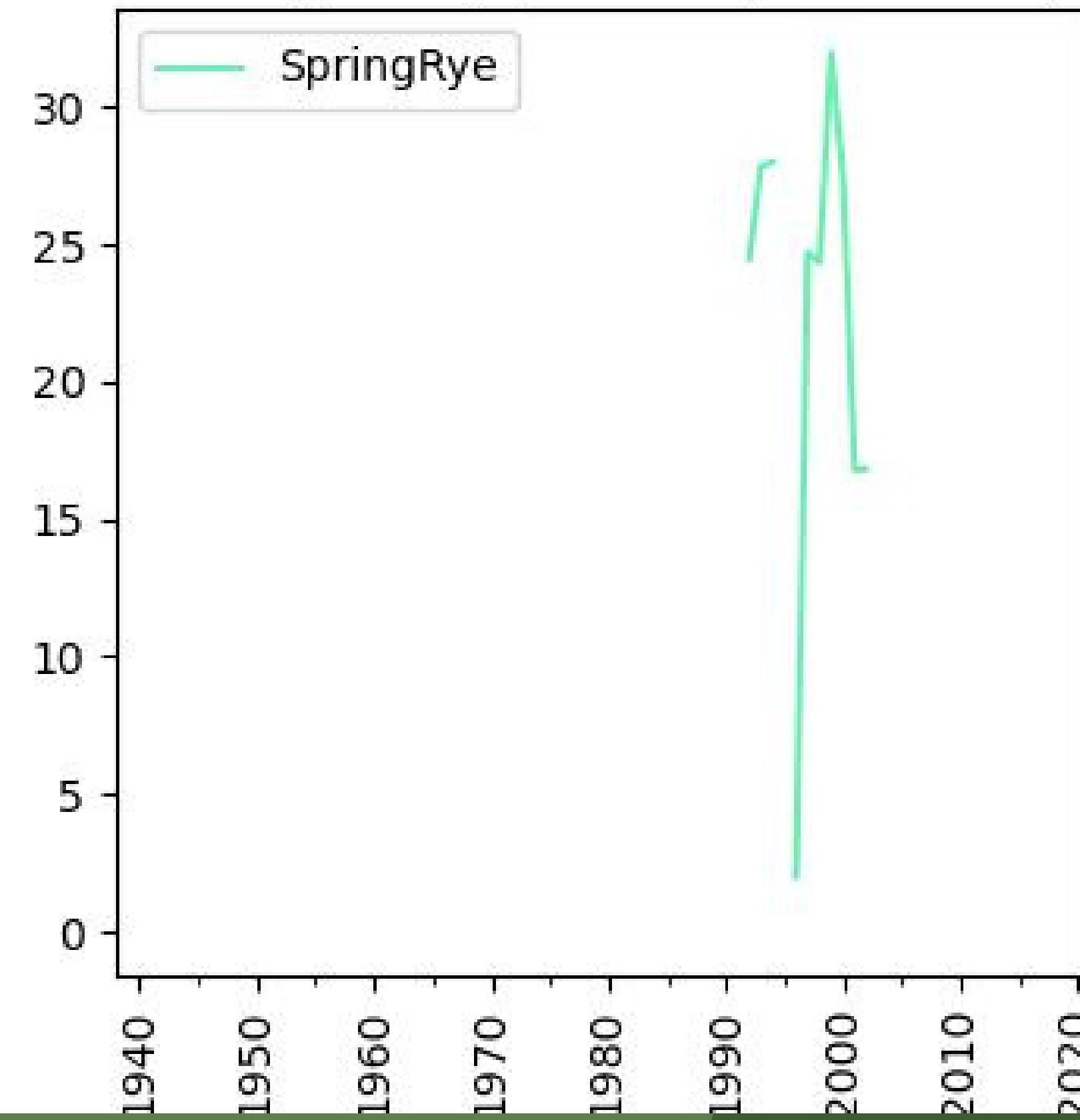
With crop yield analysis, farmers can make better decisions on resource management and increase yield. By increasing crop yield, we can maximize the use of land for agriculture.

Analysis of crop yield with regards to geographical location can give better understanding of trends and crop distribution.

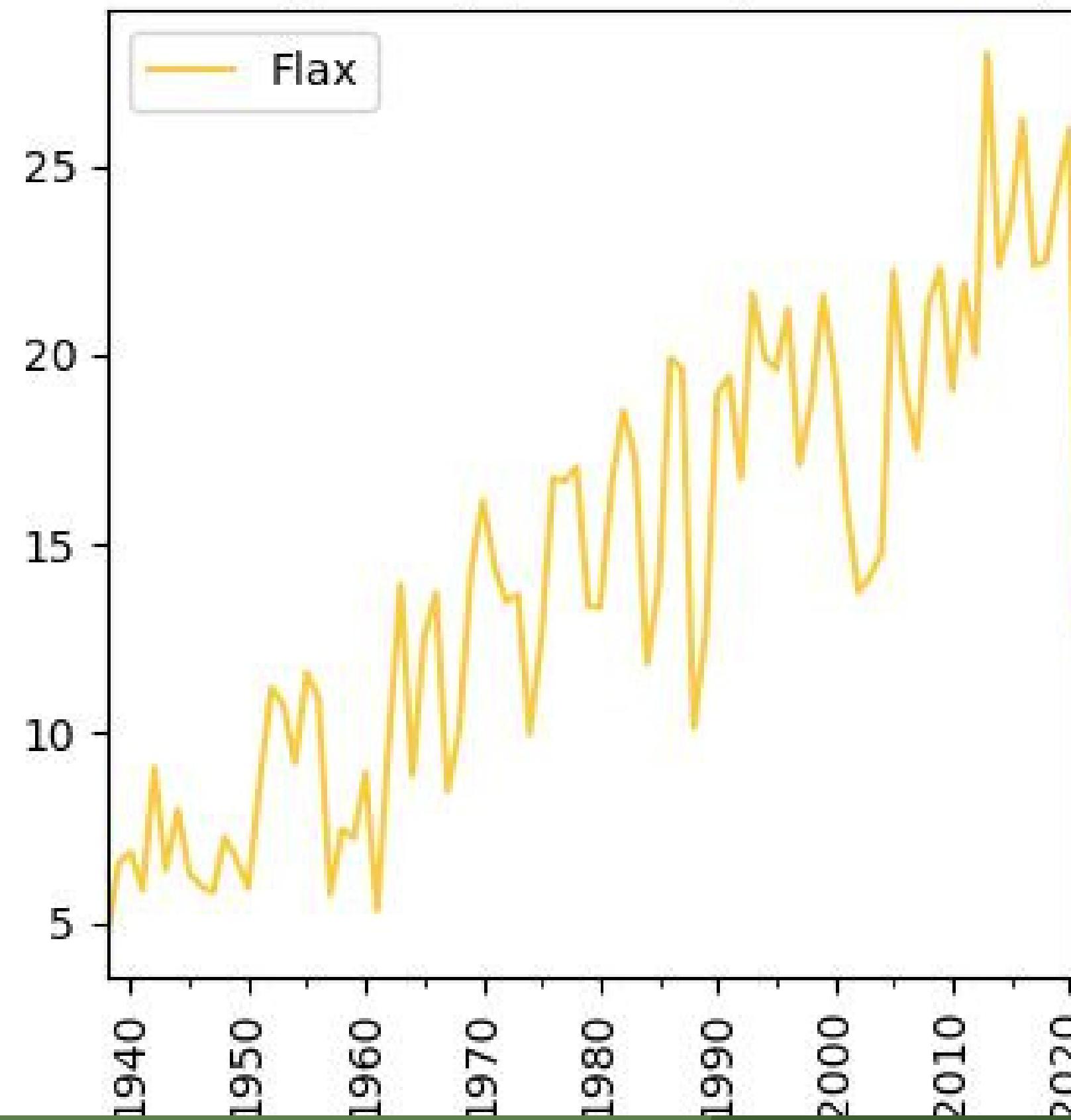


- Dataset is from 1938 to 2021

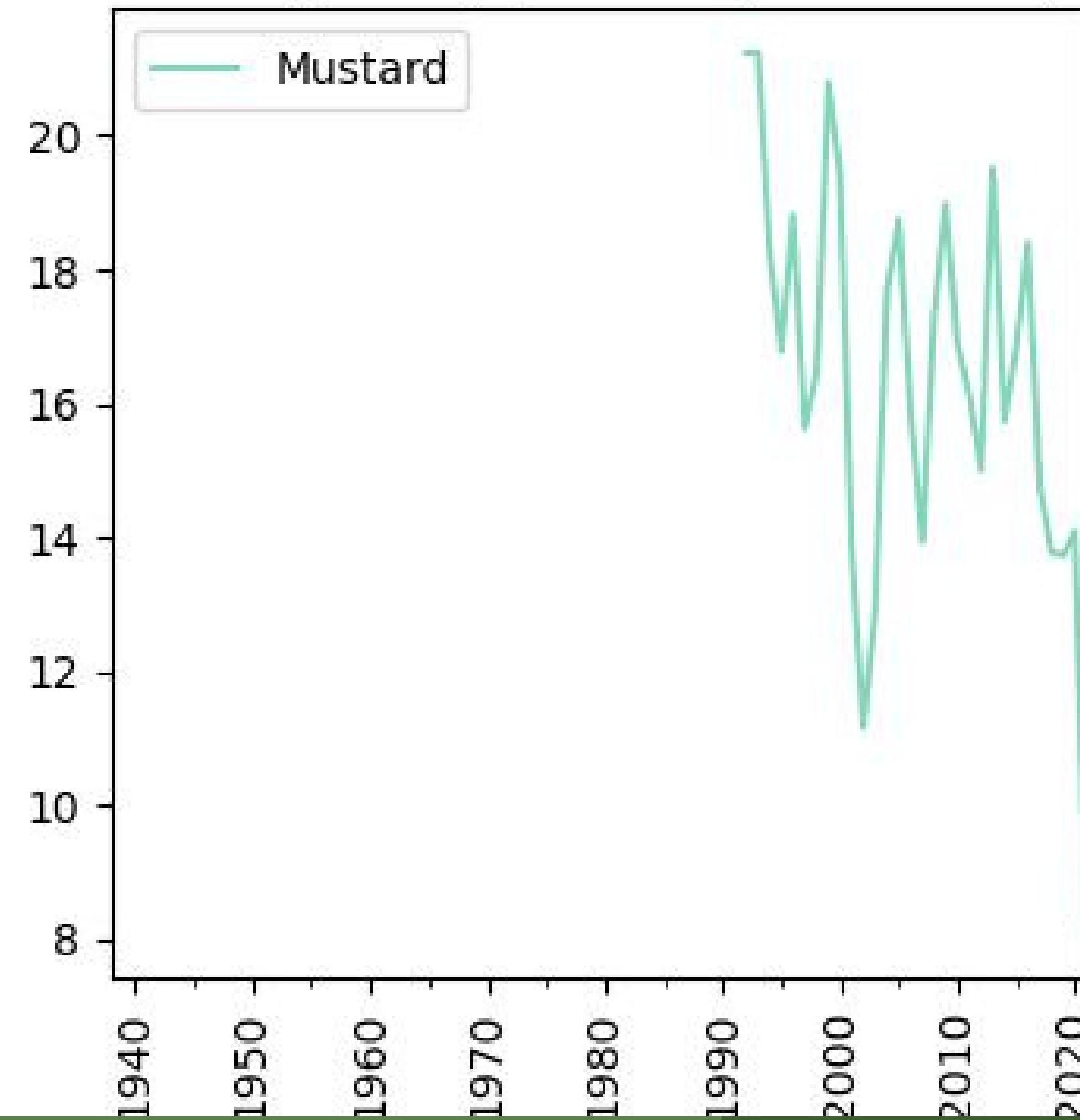
Average Crop per Year (1938-2021)

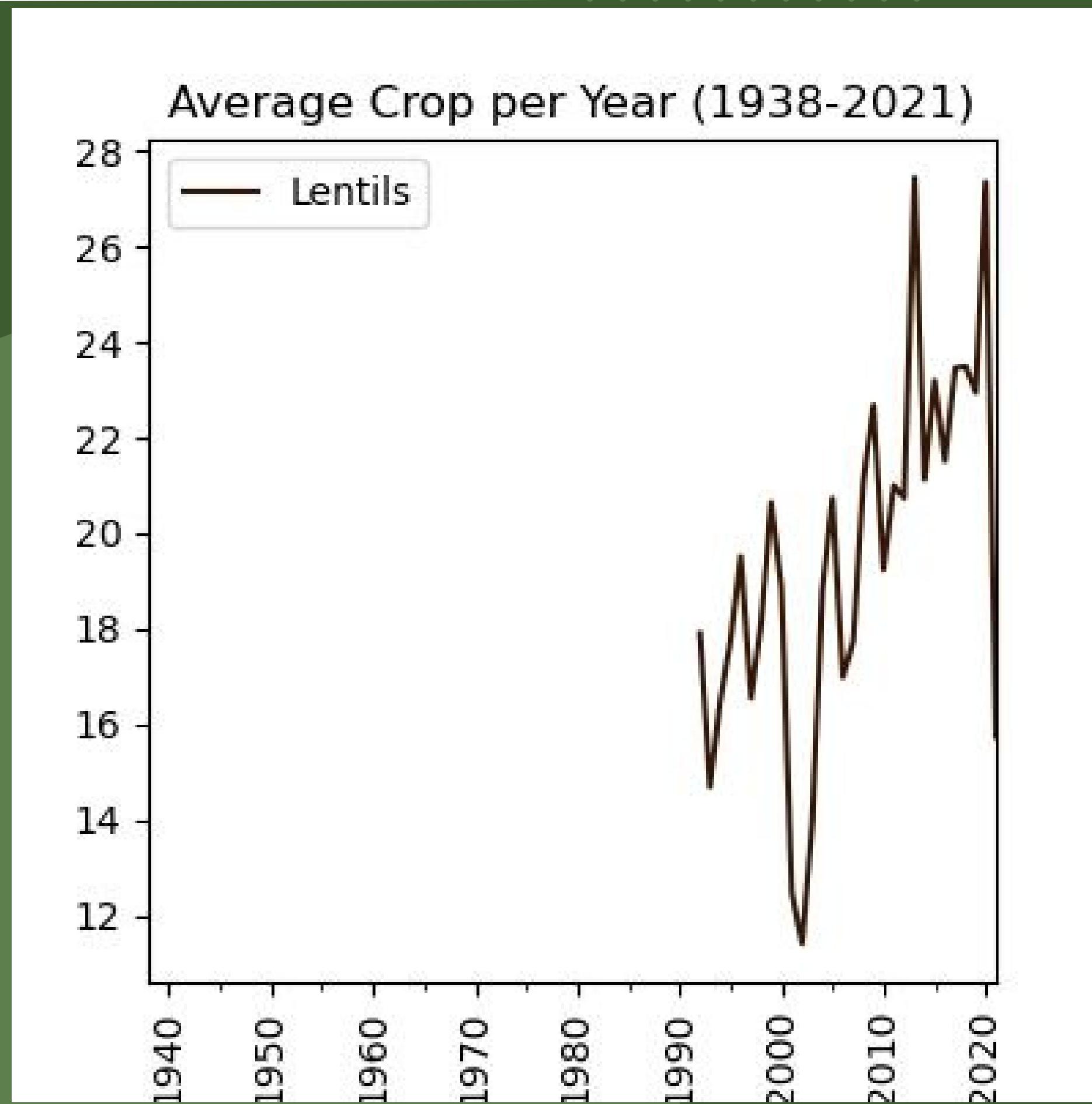


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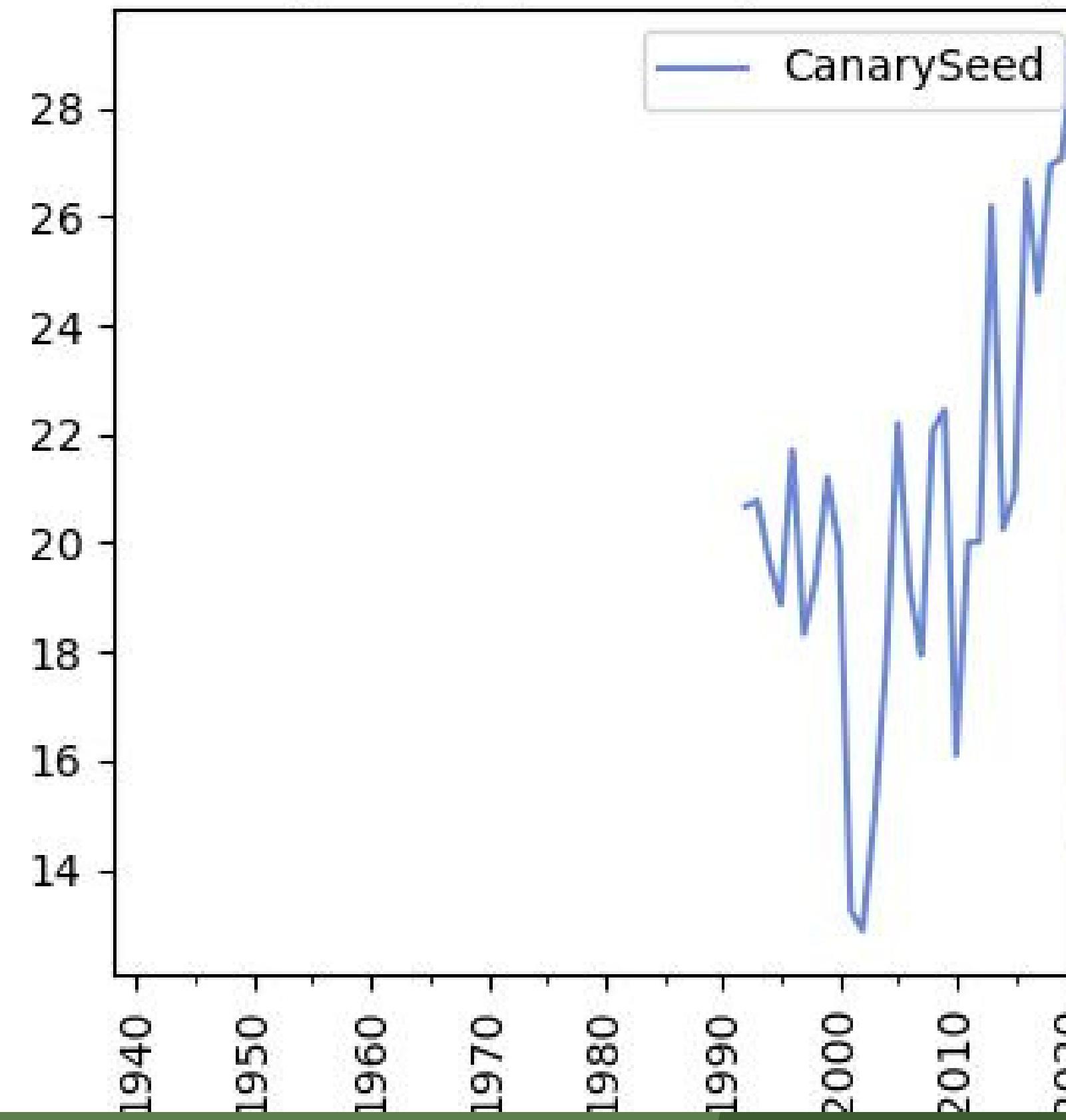


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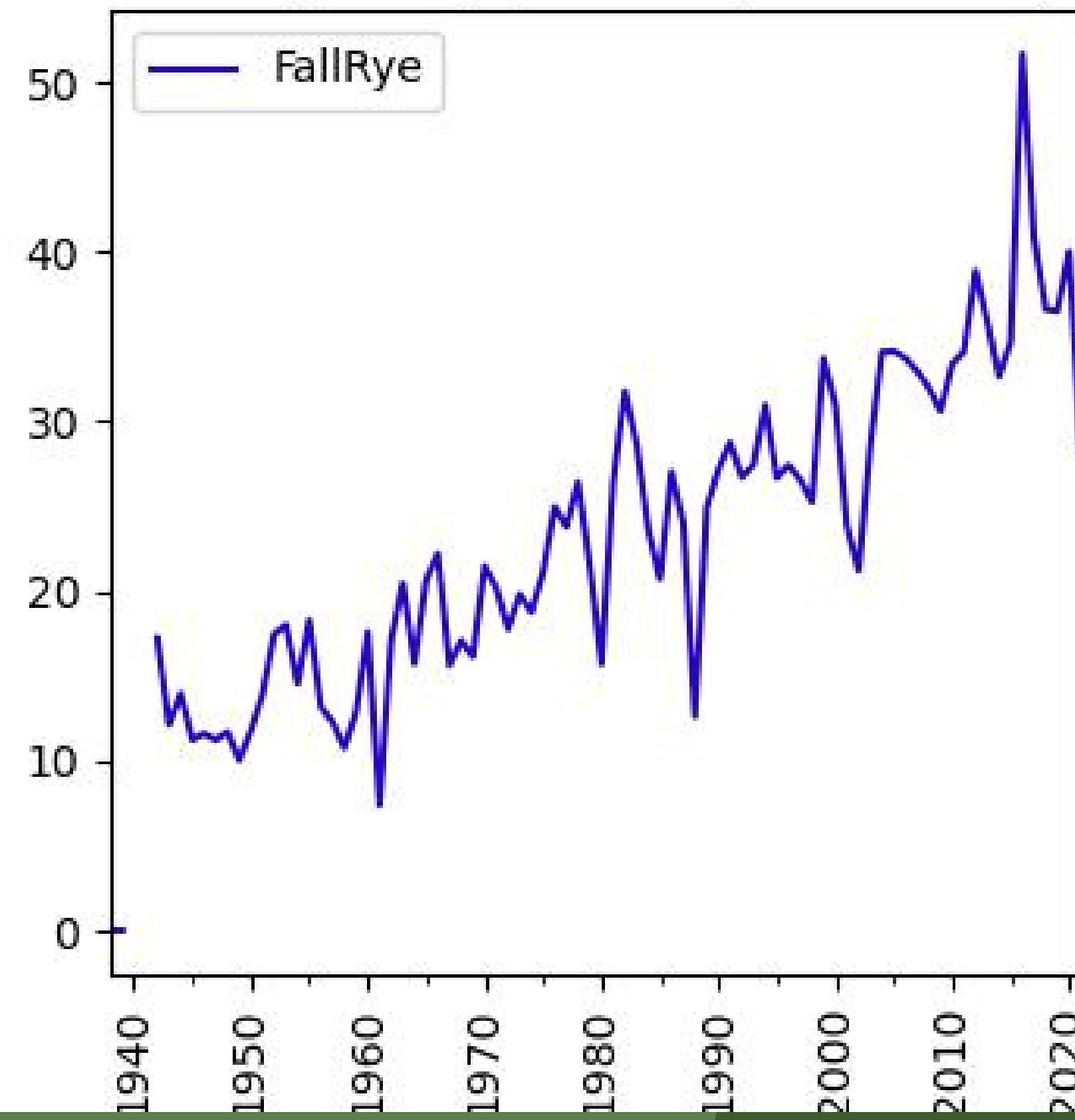




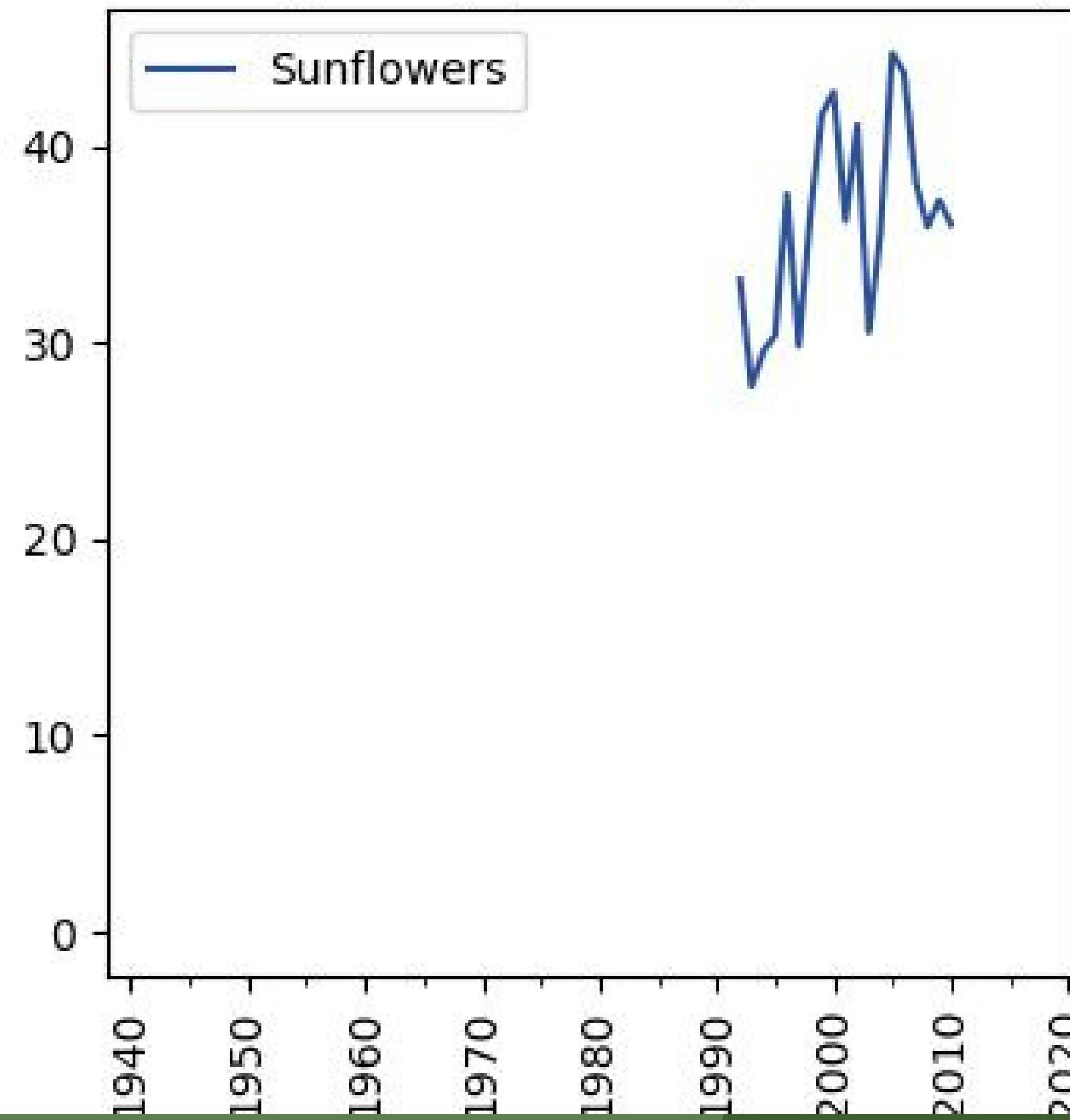
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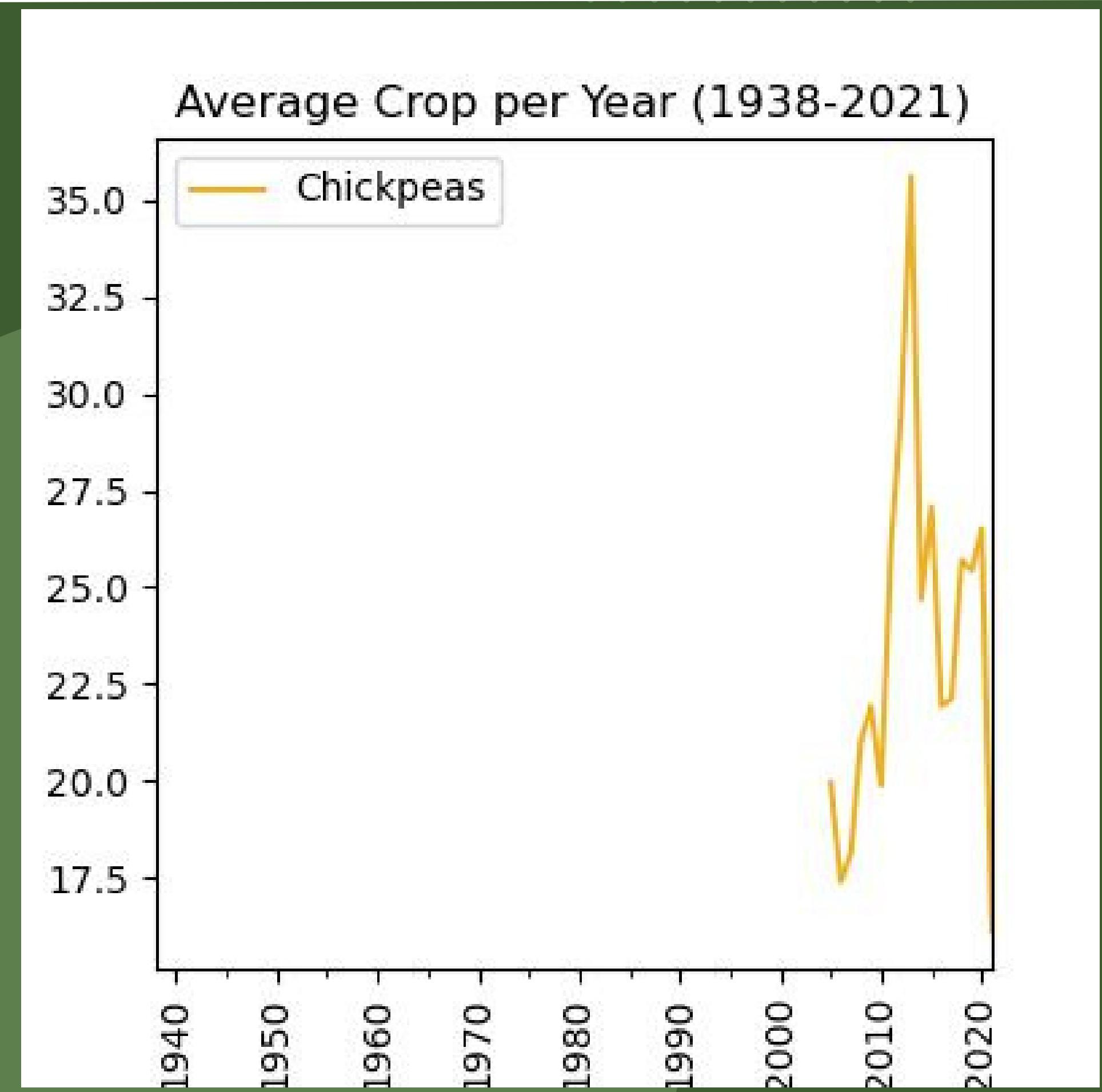


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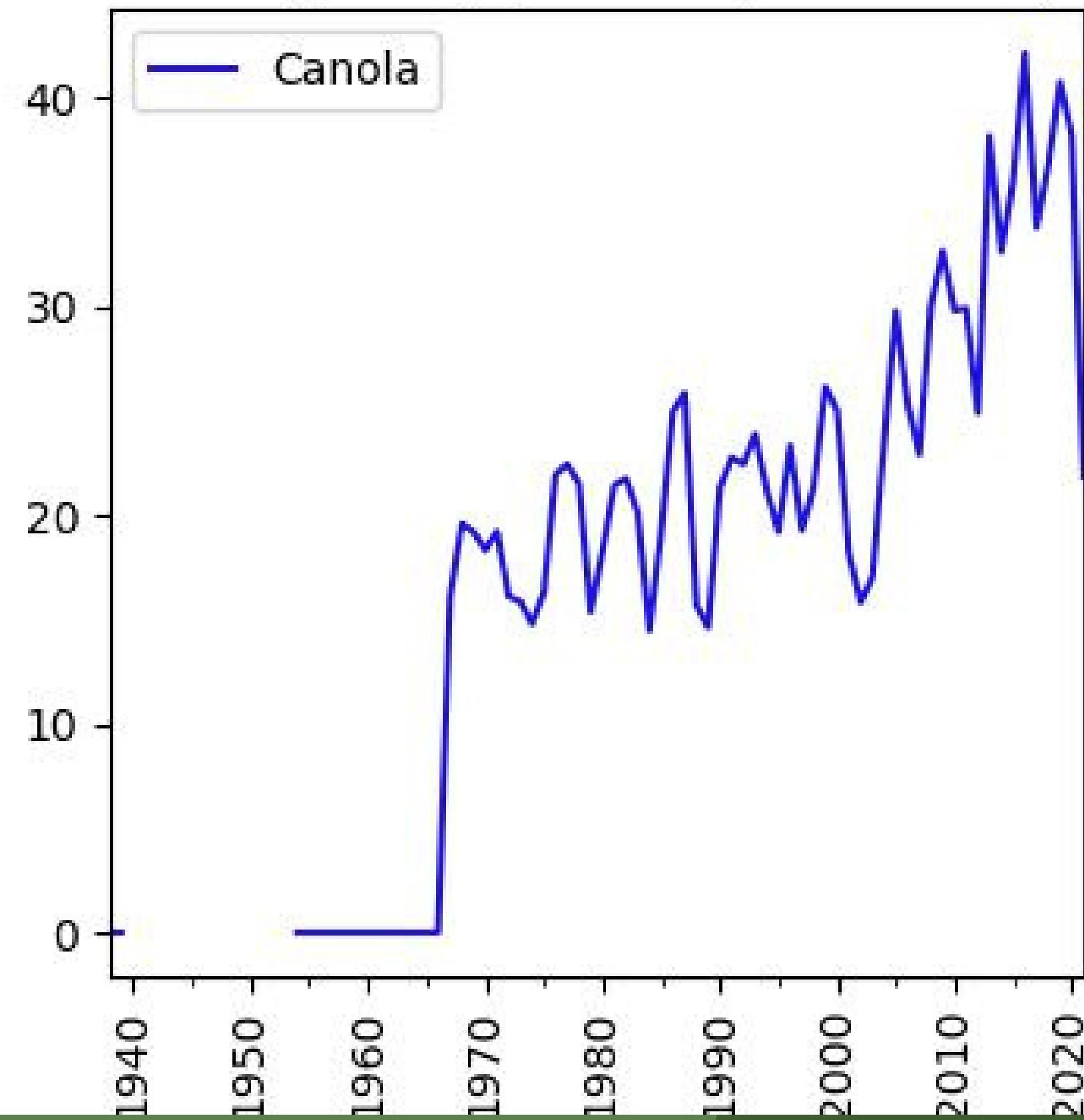


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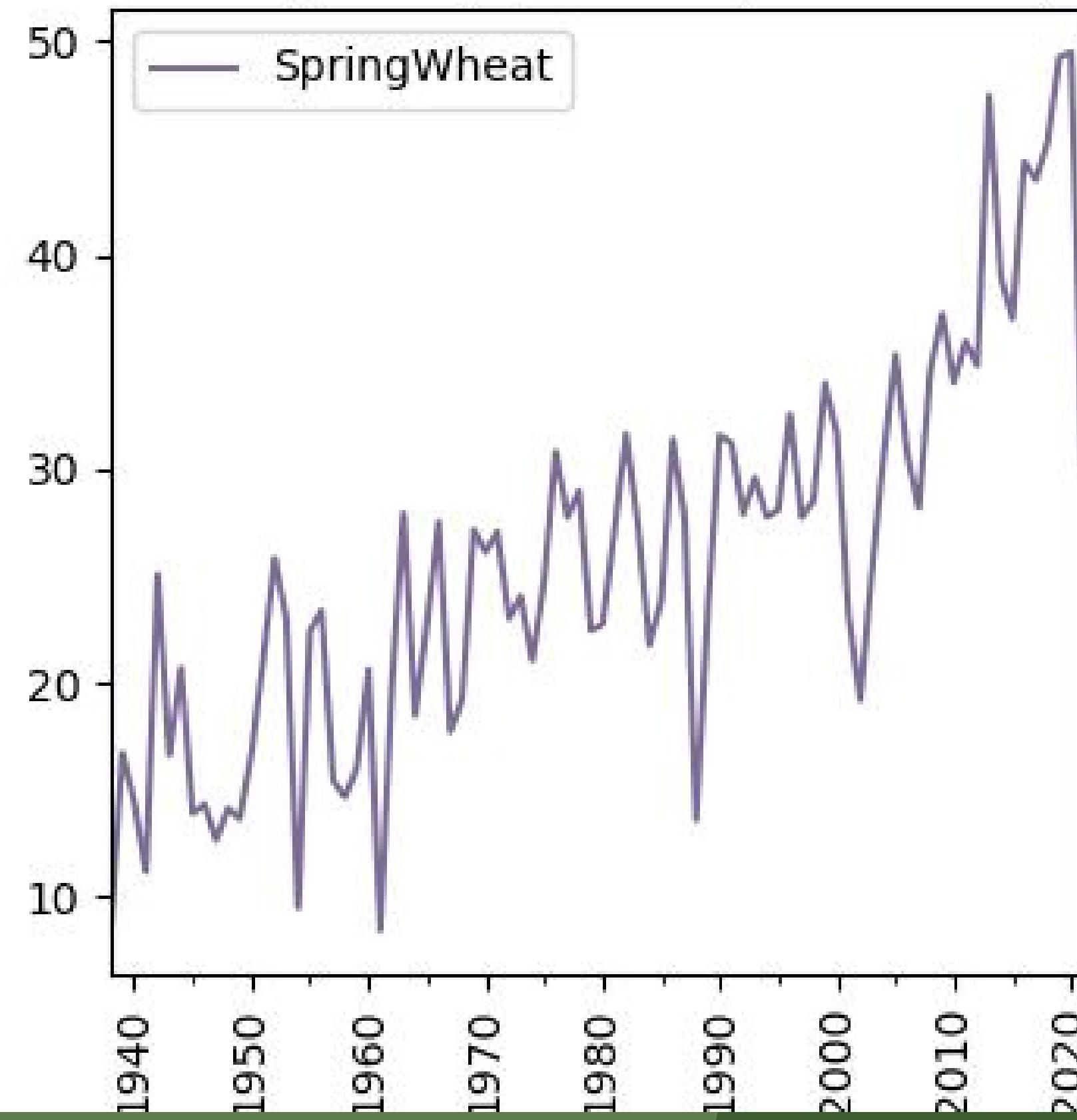


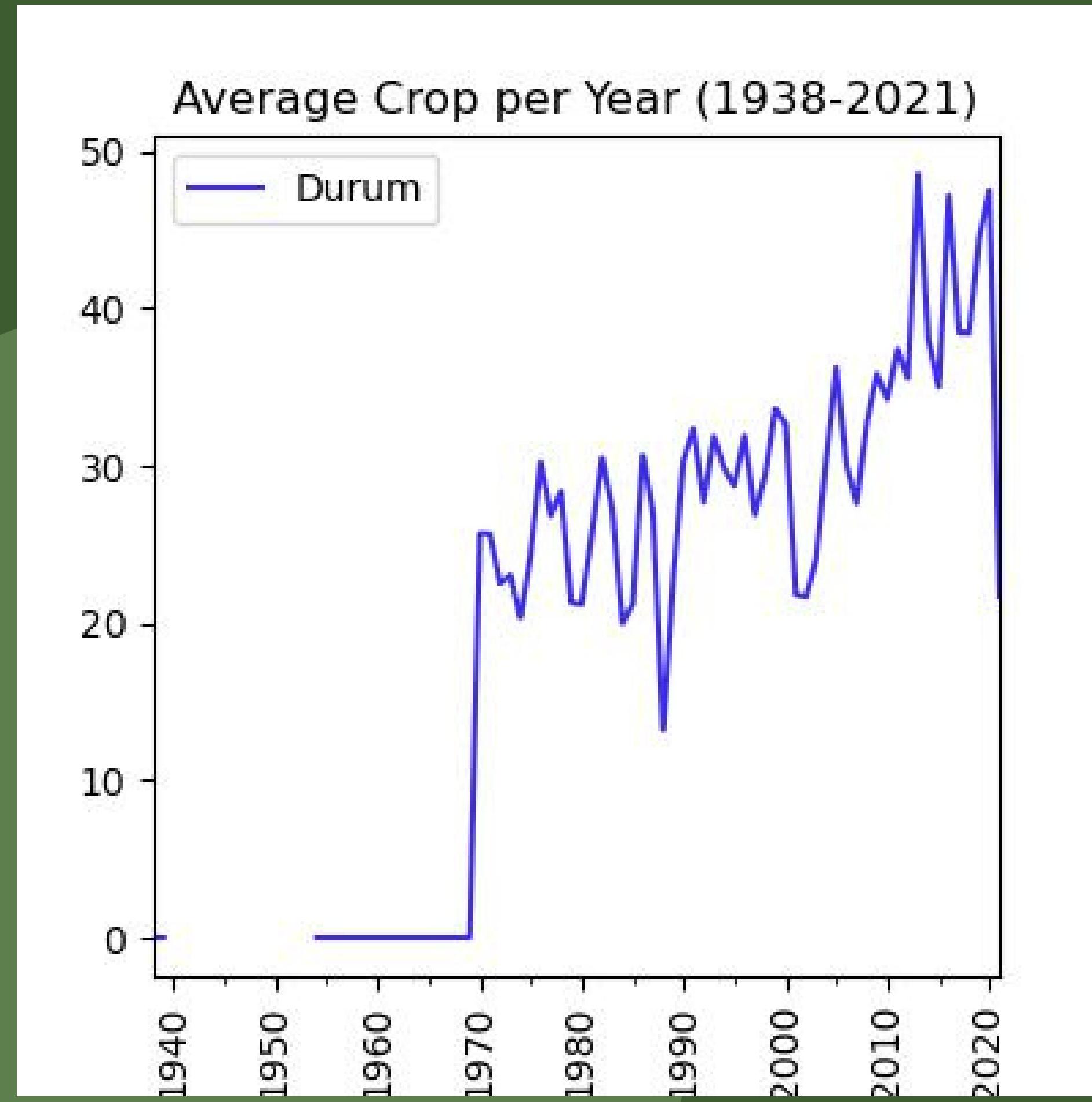


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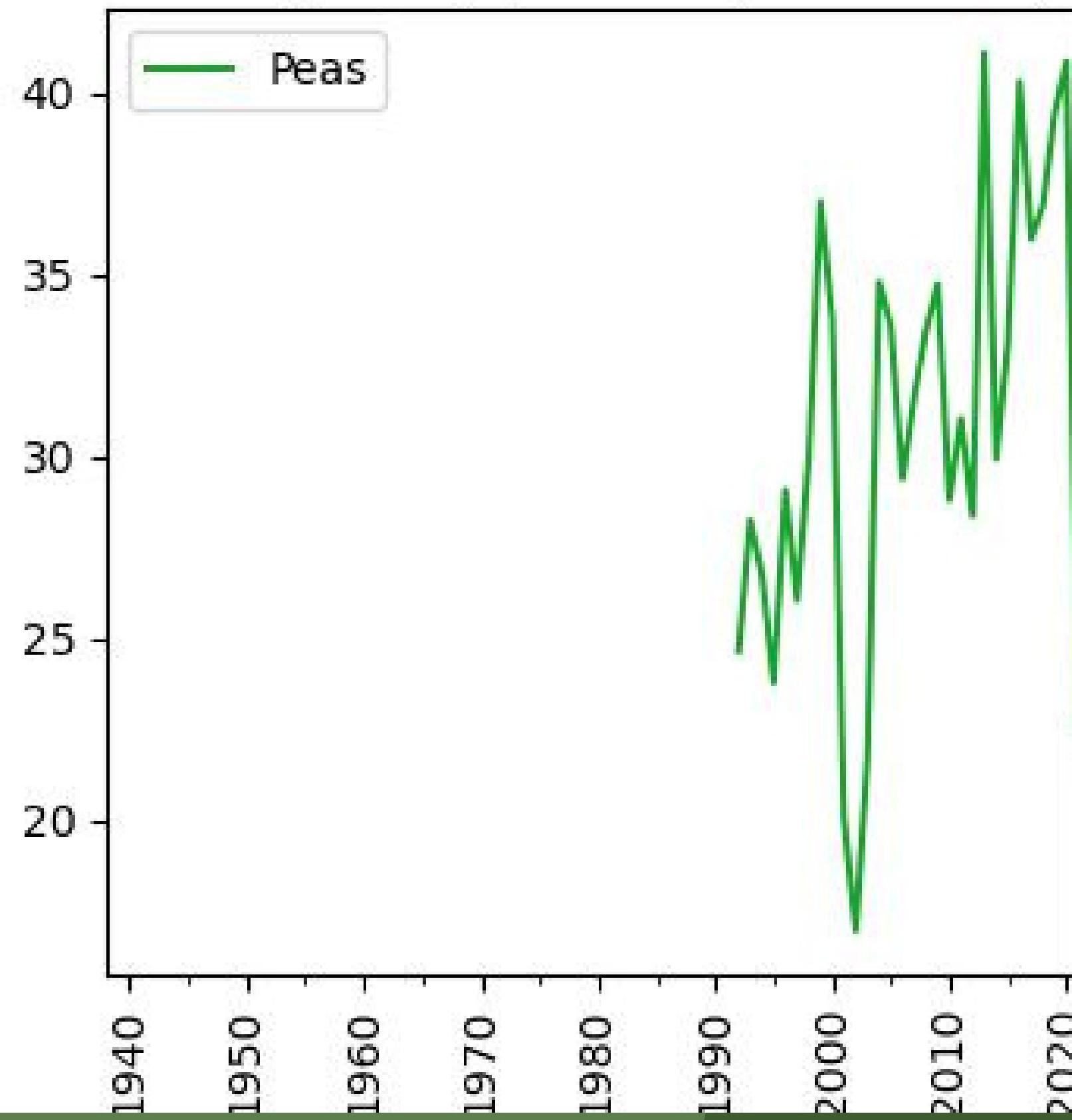


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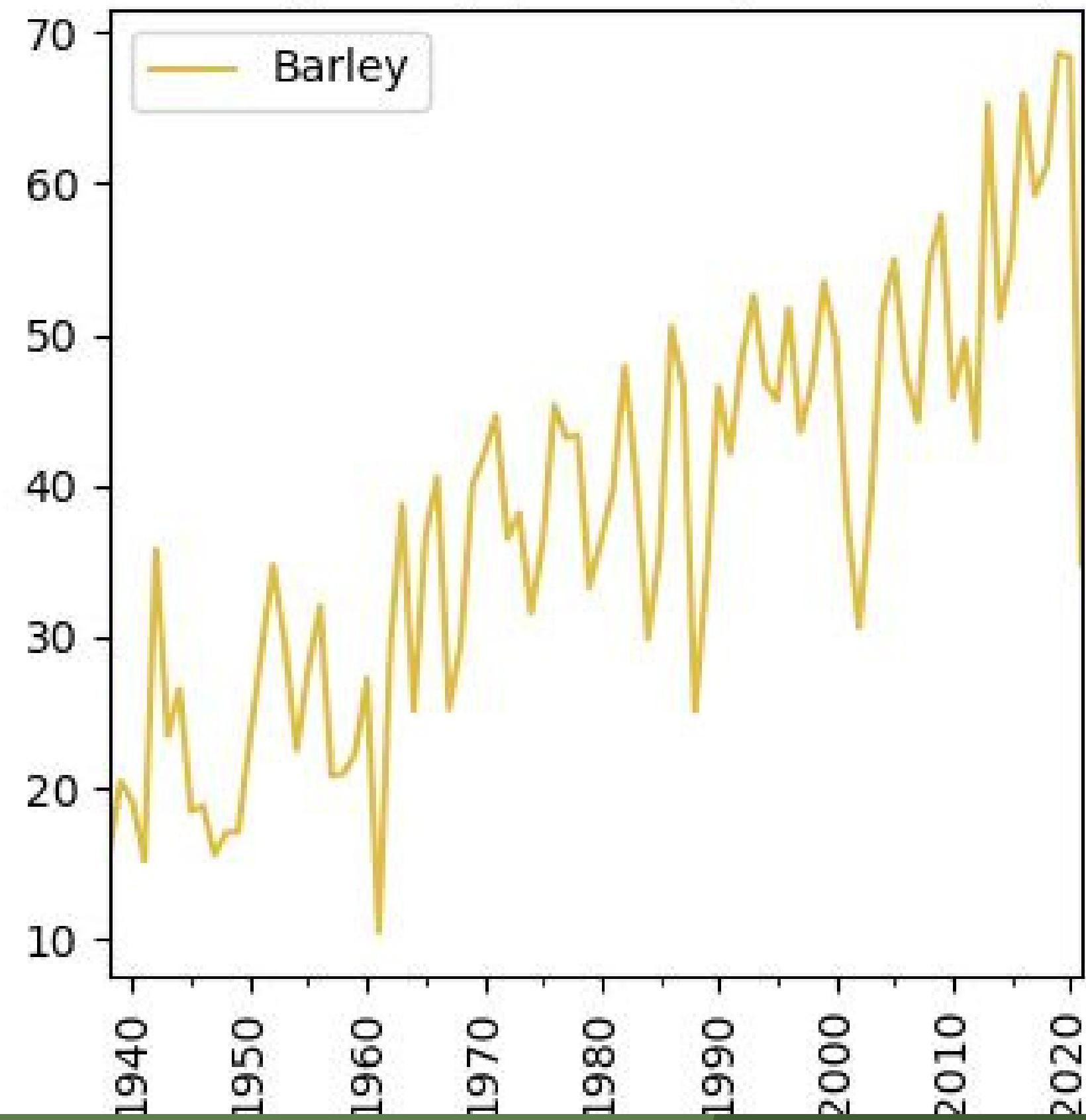




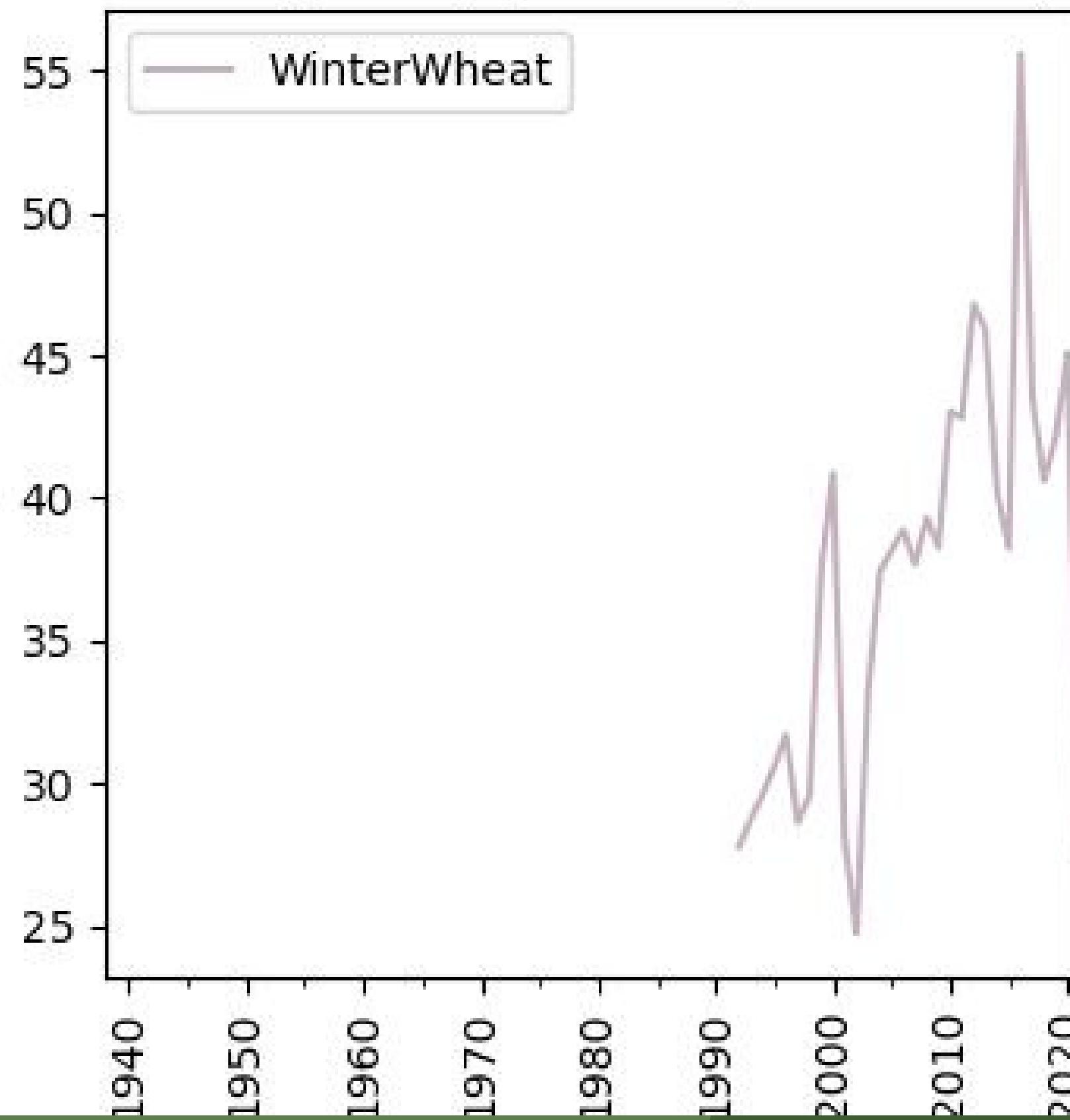
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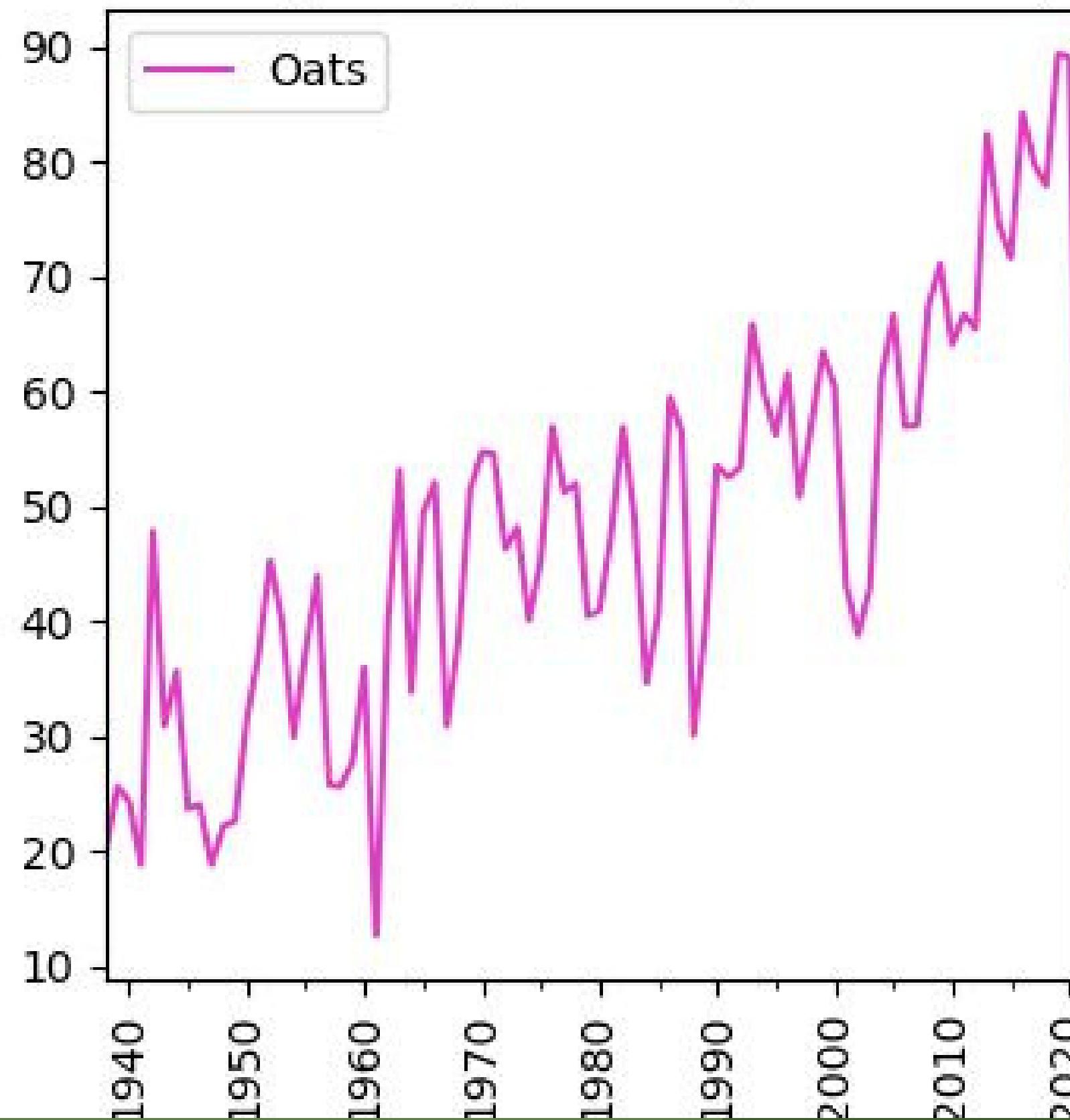
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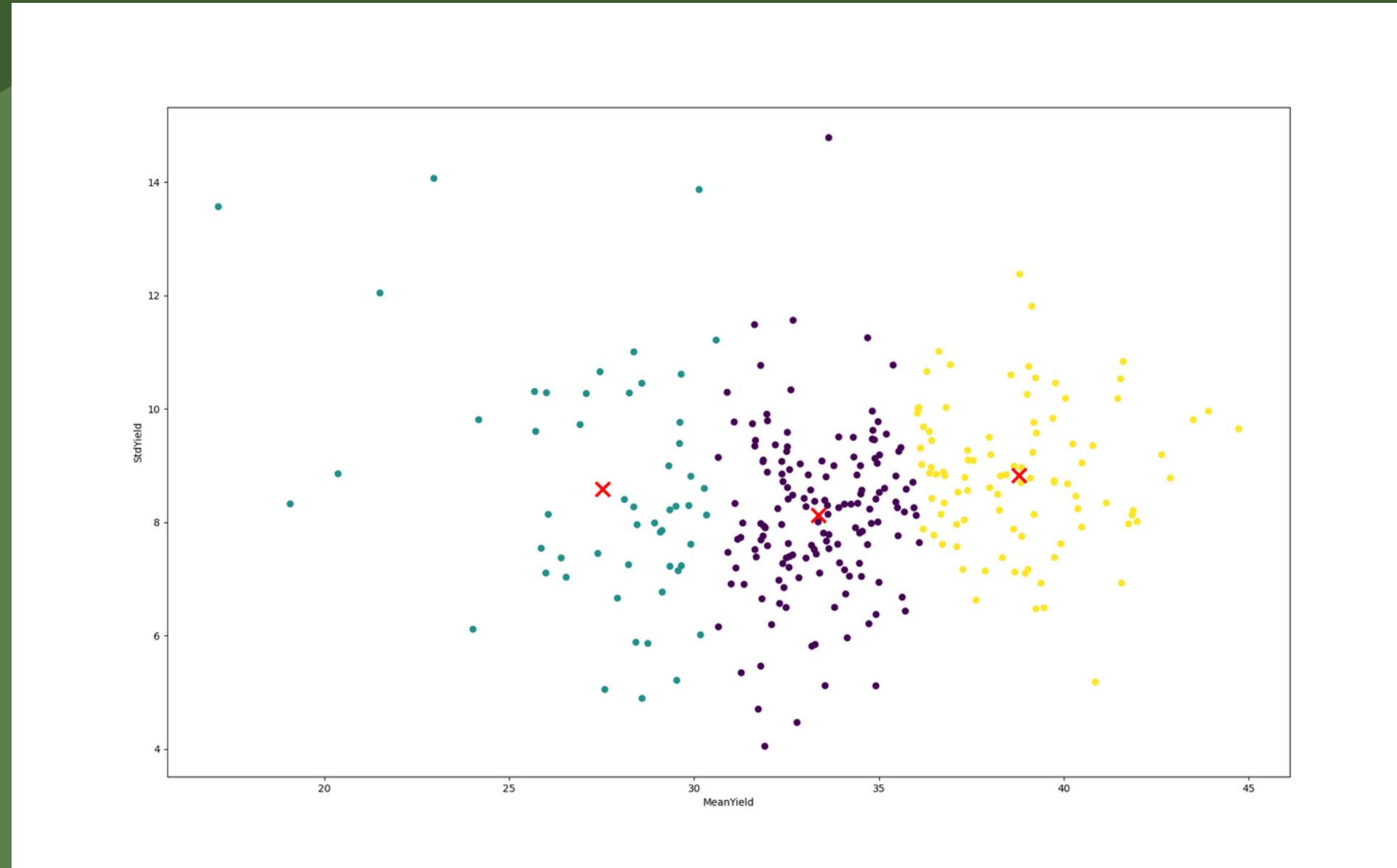
Average Crop per Year (1938-2021)



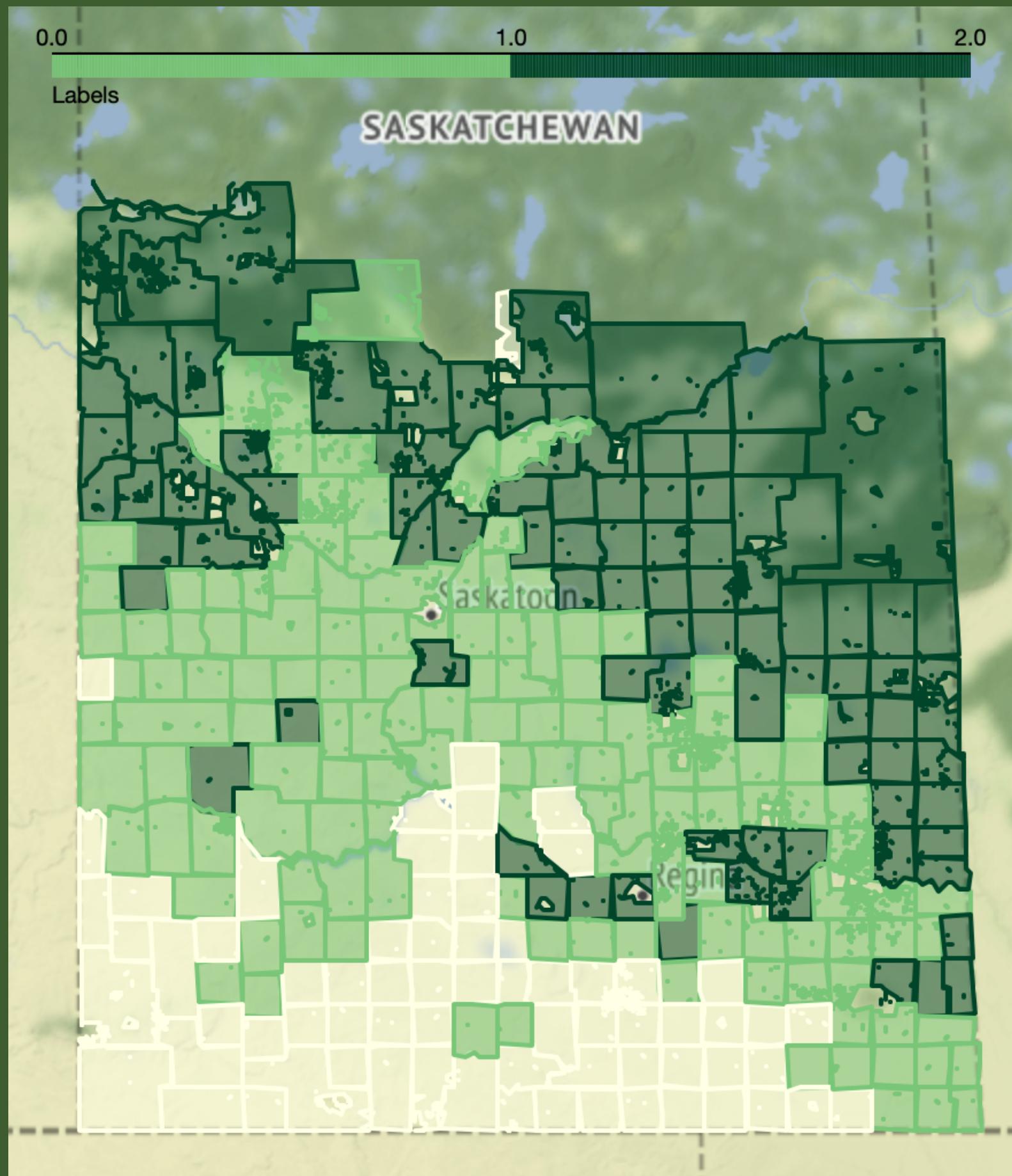
Average Crop per Year (1938-2021)



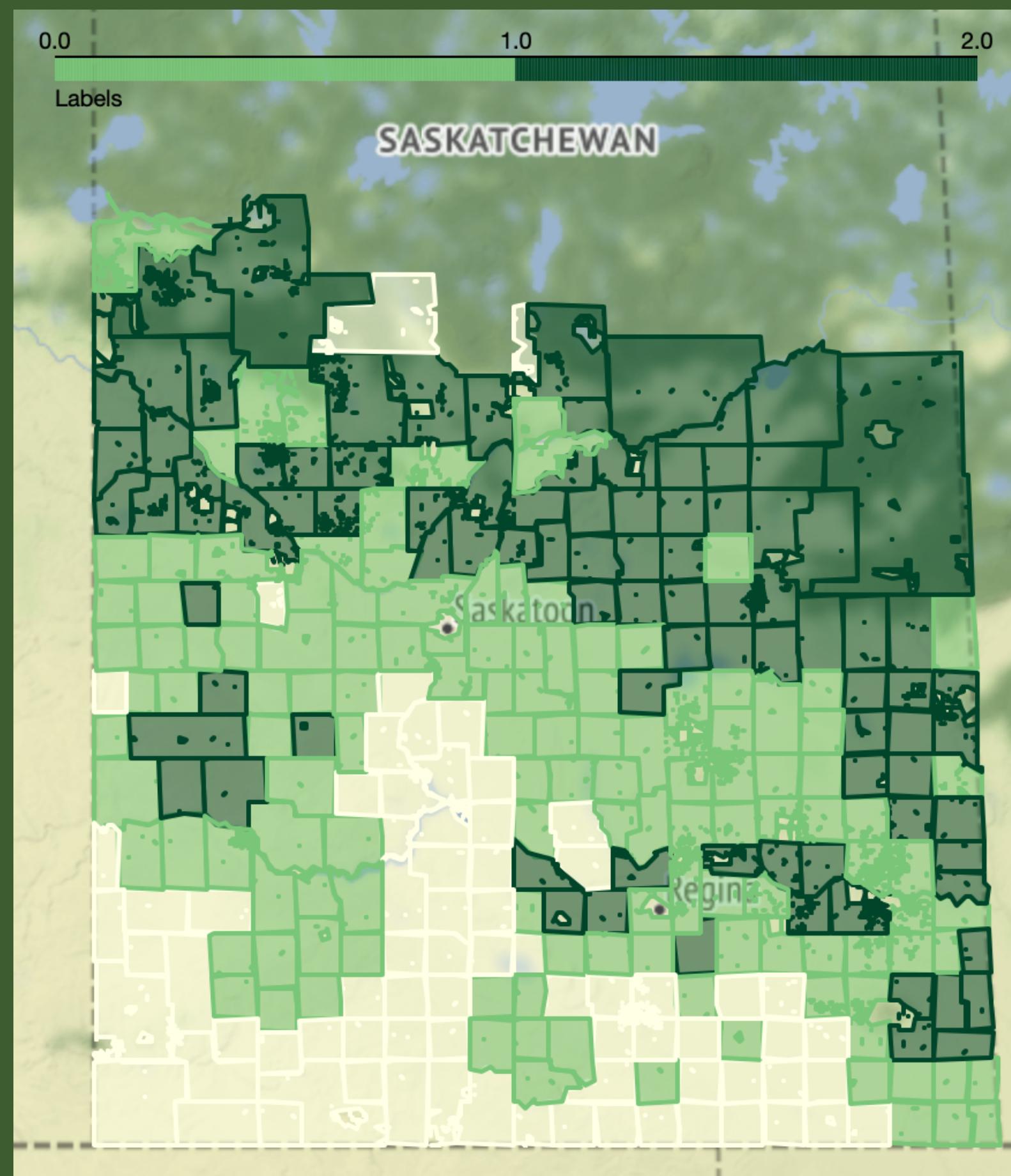
K-MEANS CLUSTERING



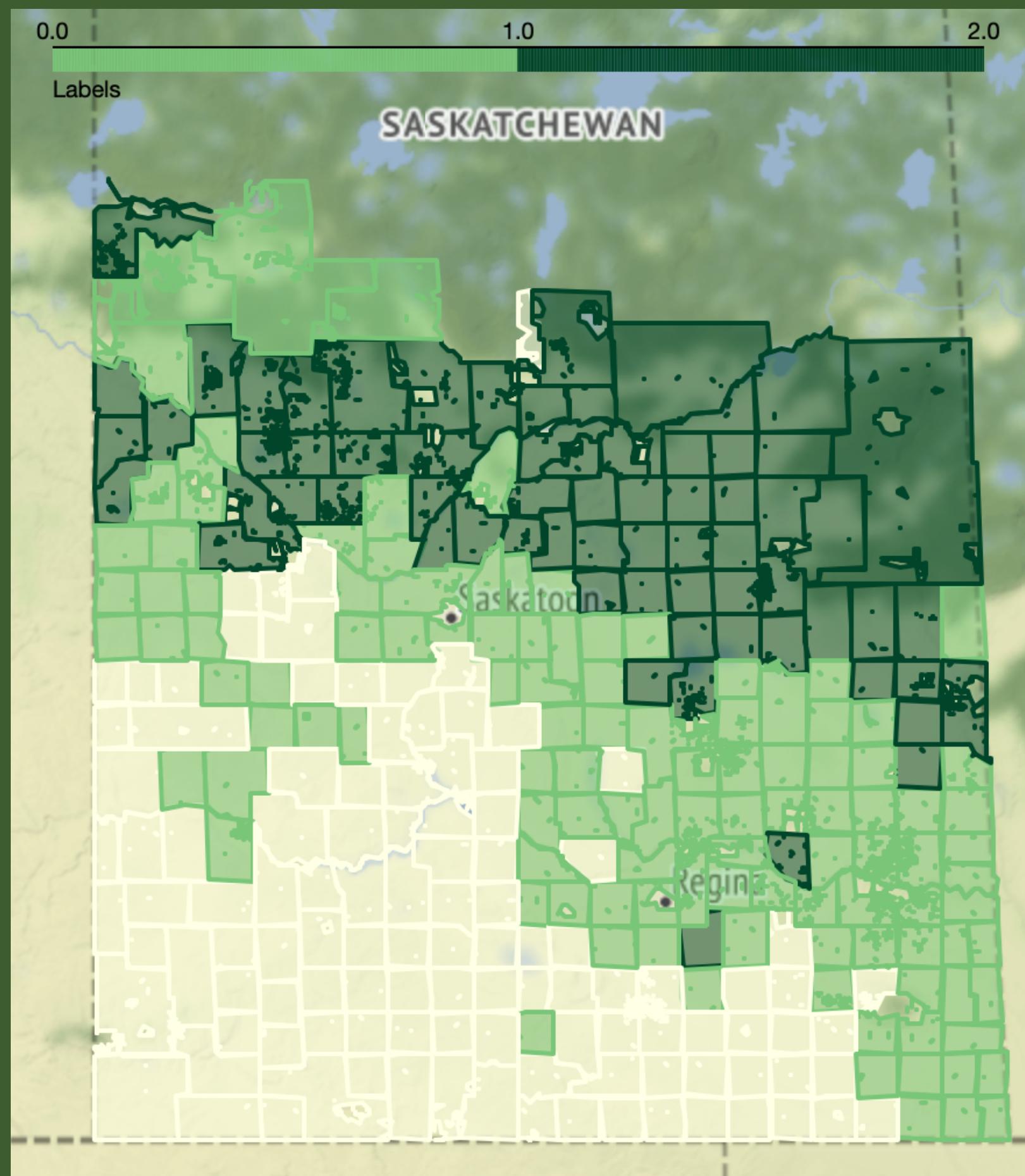
The algorithm tries to find similarity between the items and group them into clusters.



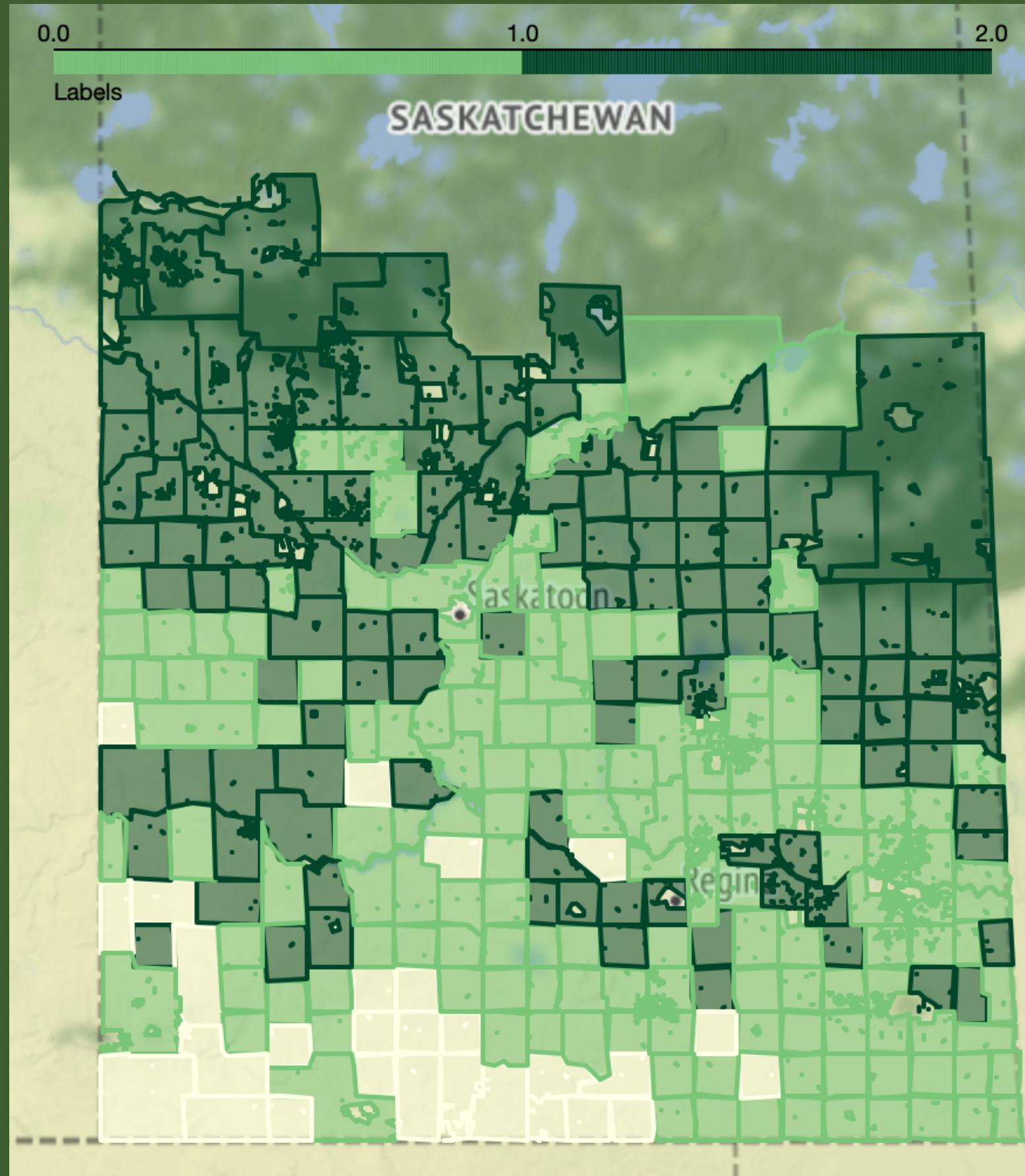
Clustering Spring Wheat



Clustering Barley

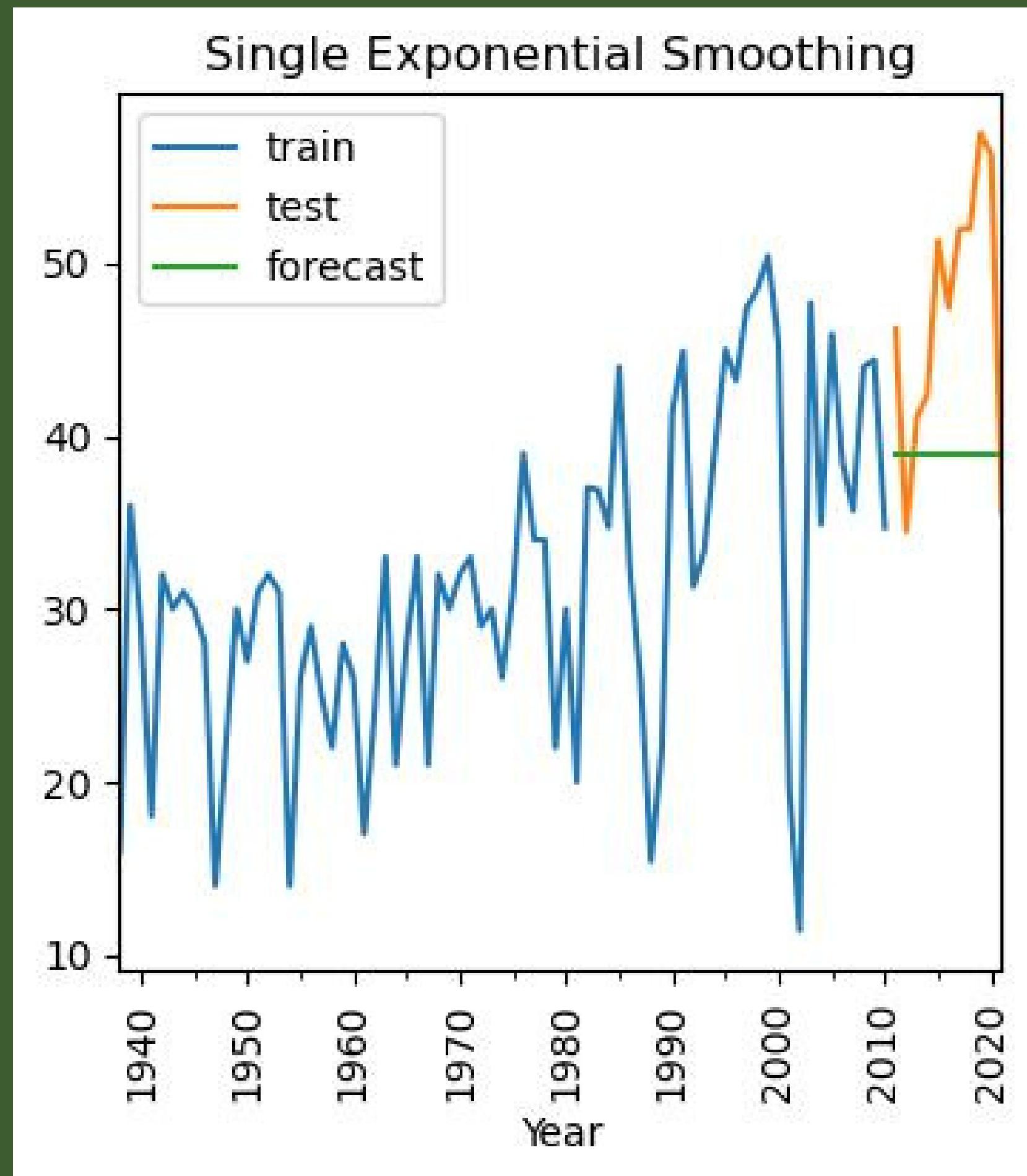


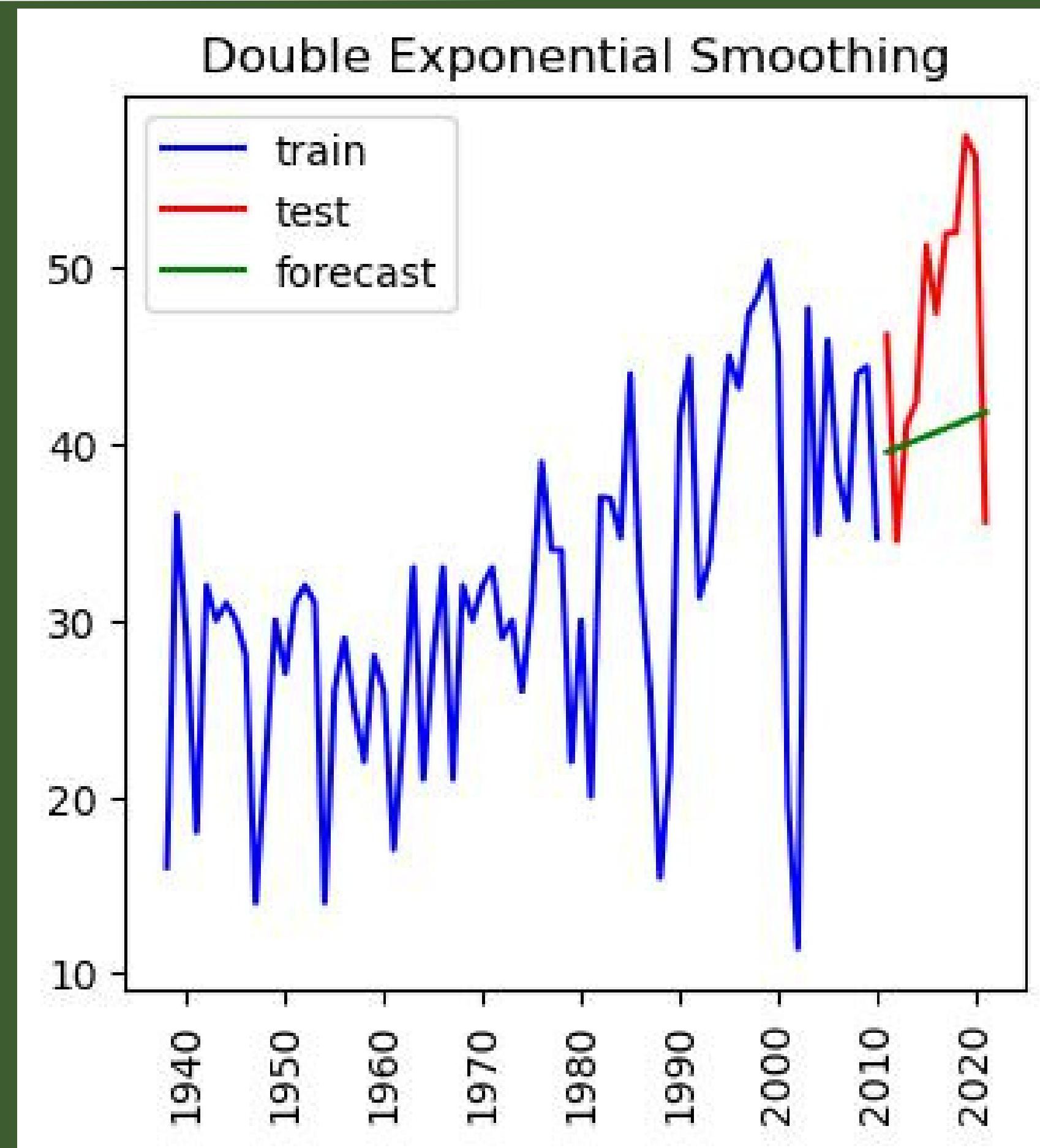
Clustering Oats

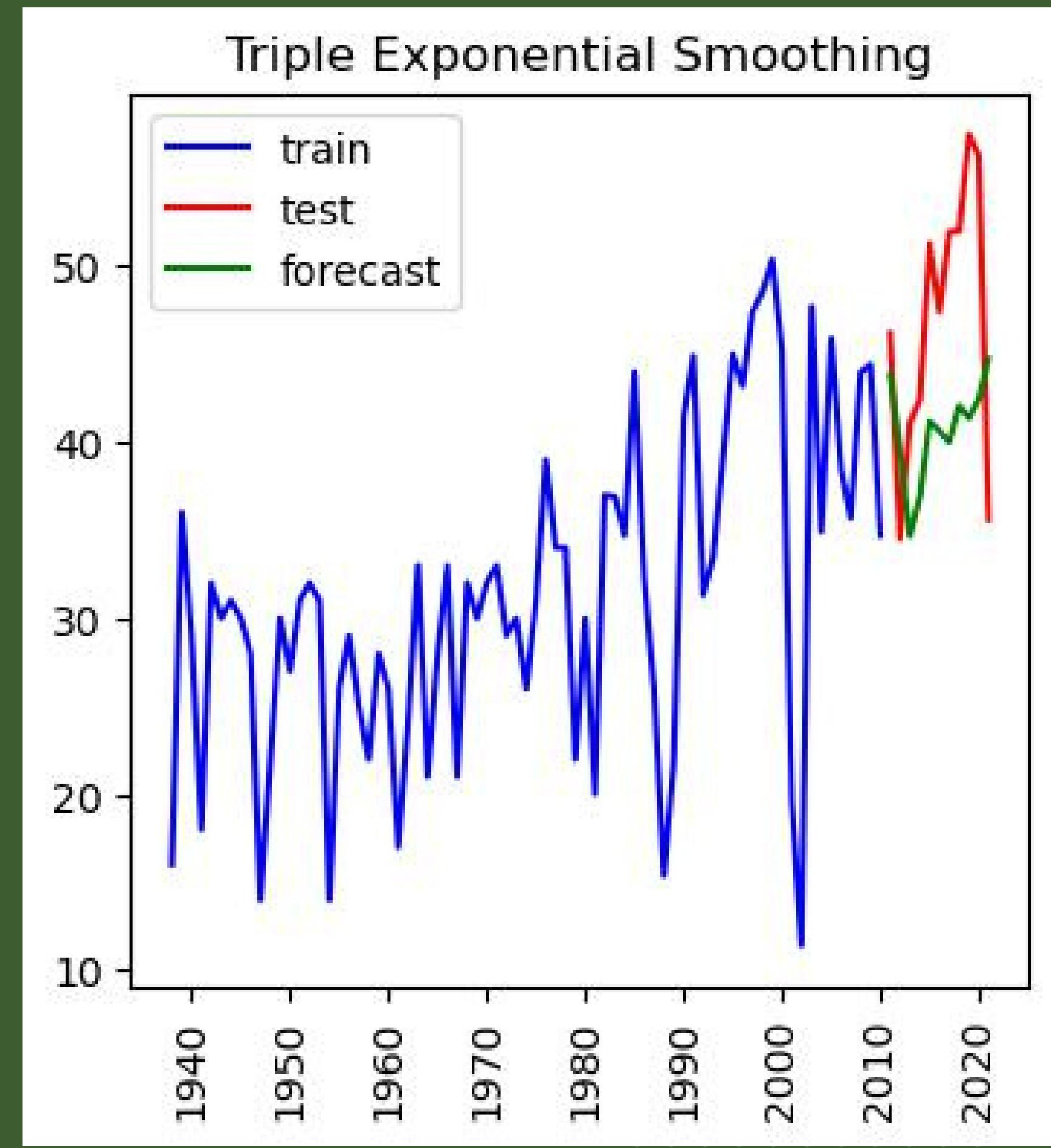


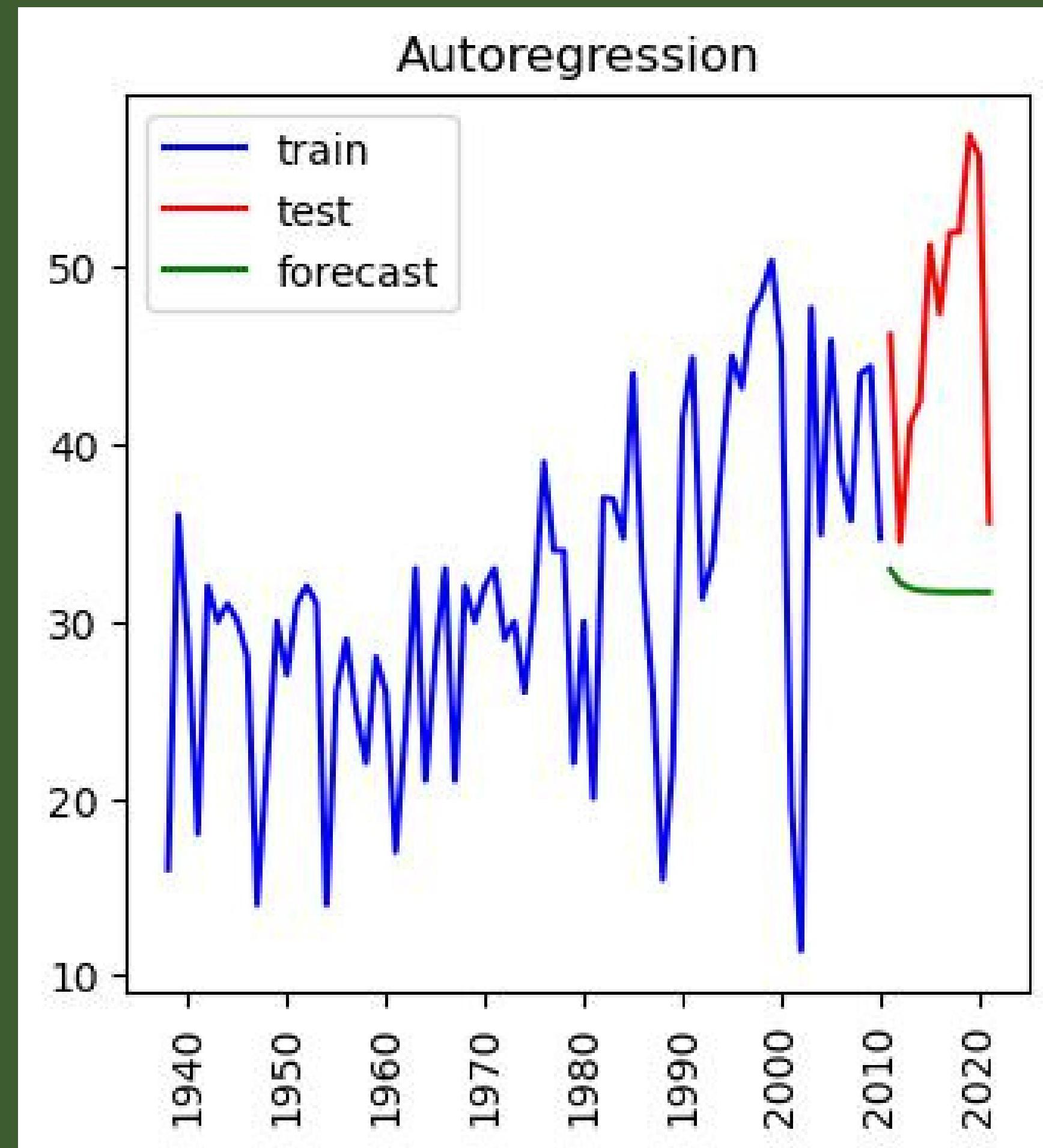
Clustering Canola

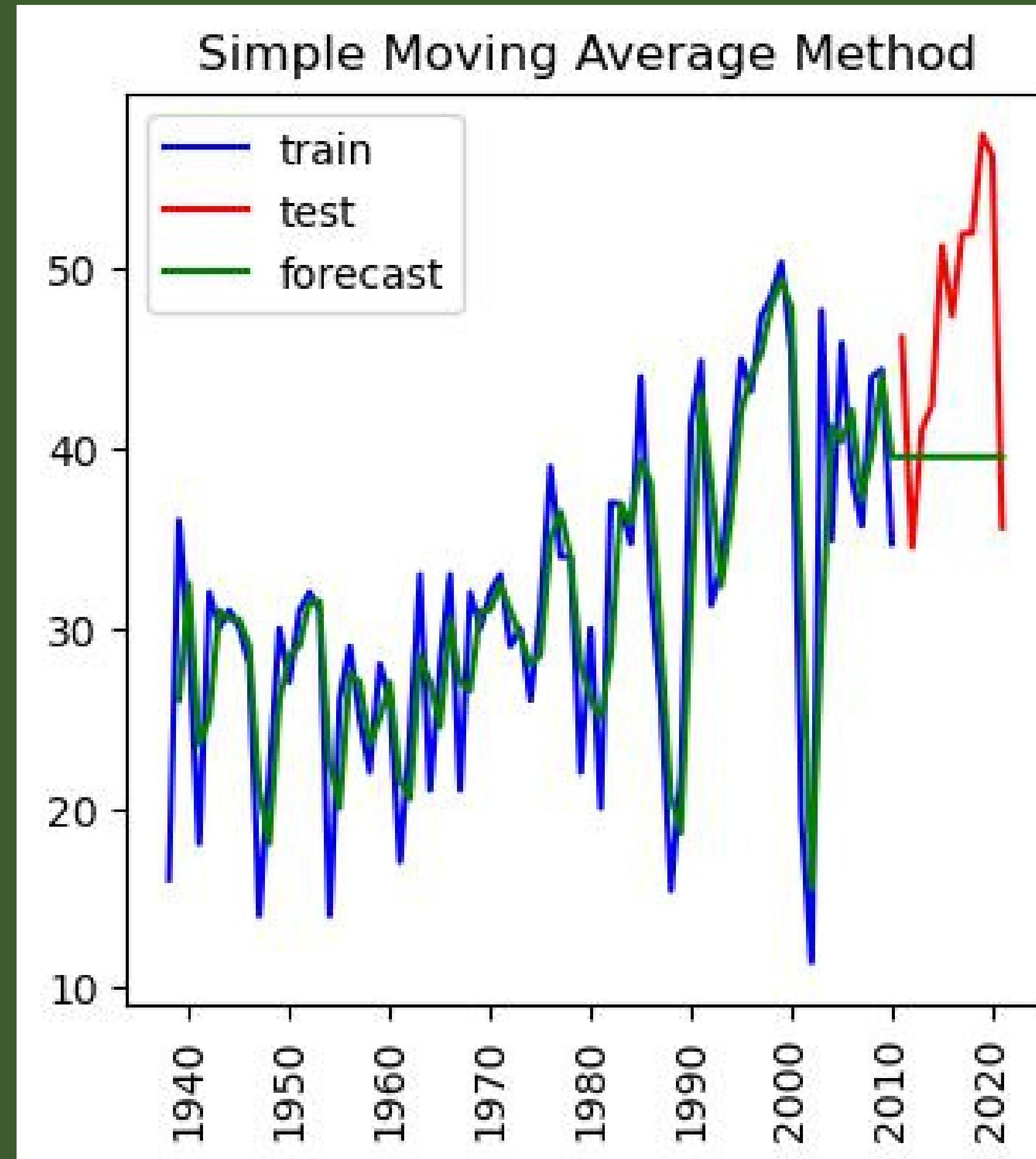
TIME SERIES FORECASTING



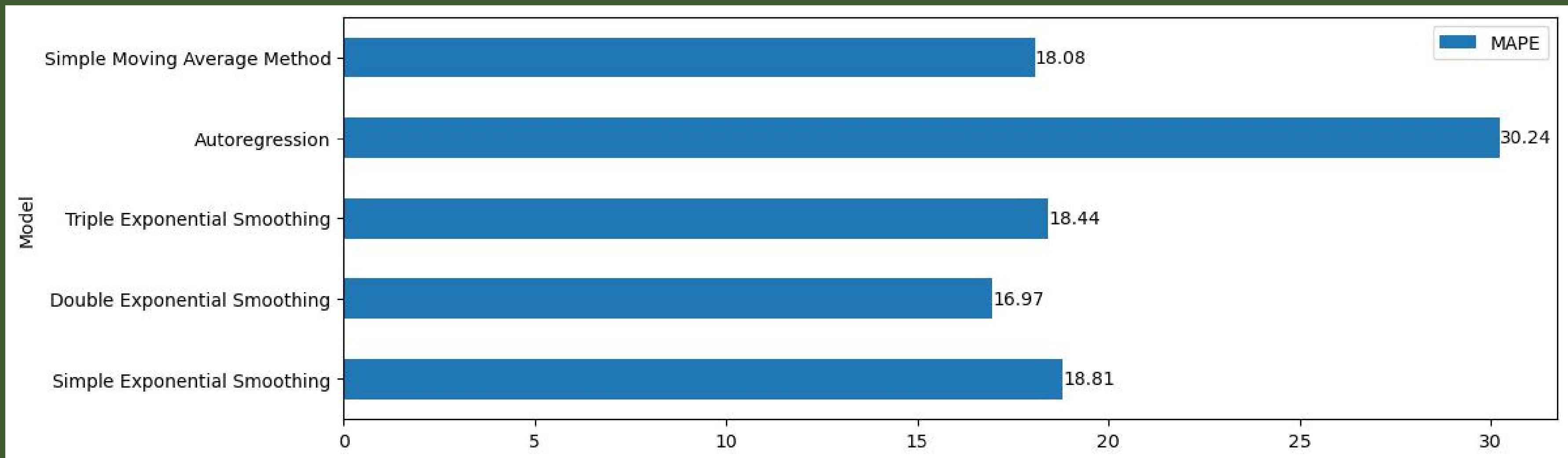








MEAN ABSOLUTE ERROR COMPARISON





THANK YOU