



# Strengthening Pear and Apple Resilience to Climate (SPARC)

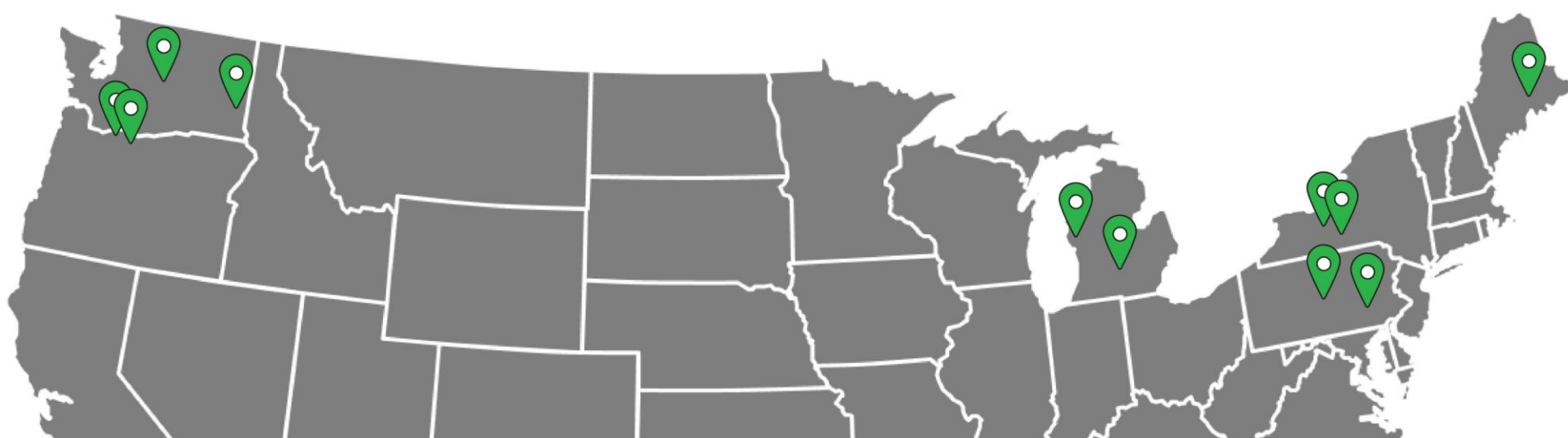
**Problem:** Extreme heat and cold events that deviate from seasonal norms are increasing. These changes can result in major losses to apple and pear production.

## Project Goals

- Evaluate temperature damage mitigation strategies
- Build models that allow for risk assessment and cultivar selection
- Characterize physiological and genetic mechanisms of cold and heat tolerance
- Identify temperature-related traits to be used in future scion and rootstock breeding
- Develop durable extension materials on heat and cold damage mitigation in pome fruit

## Project Team

- Nationwide collaboration between seven institutions



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## Current Work at TFREC

- Testing heat and cold protective spray products
- Investigating genetic control and physiology of sunburn



## Learn more about SPARC

Follow research updates and learn more about SPARC at the project website



[sparcscri.com](https://sparcscri.com)

Thank you to funders



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