Abstract
For many years, temperatures around the world have been increasing due to global warming from greenhouse gas emissions. As the temperatures in Massachusetts climb higher, accordingly, the humble cranberry is being put in danger. Like many northern fruits, cranberries require cold winters to properly mature. Higher temperatures will prevent this, eventually forcing cranberry production to move north. This would be a terrible loss for the Massachusetts economy. To prevent this we recommend farmers transfer production to modern hybrid cranberry breeds that possess higher heat tolerances.

Background
• Winter temperatures are increasing by 0.7° C per decade
• By 2100 it is predicted to have increased by 2.8° C
• Cranberries require 1700 chilling hours, temperatures below 7° C
• Climate change make the chilling time harder to fill
• 94% of the money spent on a cranberry farm is spent within a 50 mile radius of the farm
• The cranberry economy is $99.8 million of the Massachusetts economy

Objectives
• Research effects of climate change on cranberries
• Find viable solutions
• Minimize impact of global warming on local cranberry farms and through this protect the economies

Conclusions
Farmers are willing to change as the long term investment of Crimson Queen outweighs the short term loss.

Even though it is expensive to change farms over to using the Crimson Queen, the longer term benefit from using the Crimson Queen is far more beneficial, economically and for the climate.

References