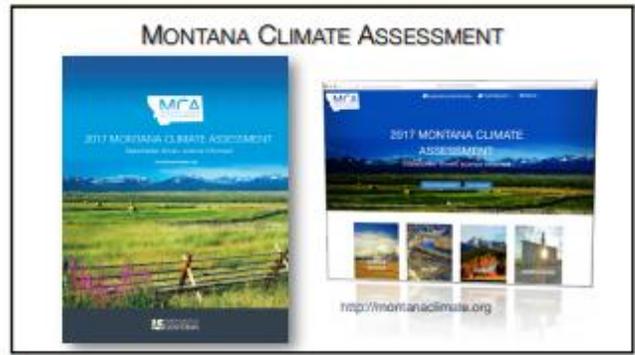


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WHY'S THIS HAPPENING...

- Existential issue for young people
- Better reporting & more discussion
- Near-weekly climate surprises
- Free market realities & our economic future (~\$92.4 billion in weather-climate disaster losses in 2018, total \$1.7 trillion since 1980; 10% of GNP by 2100)

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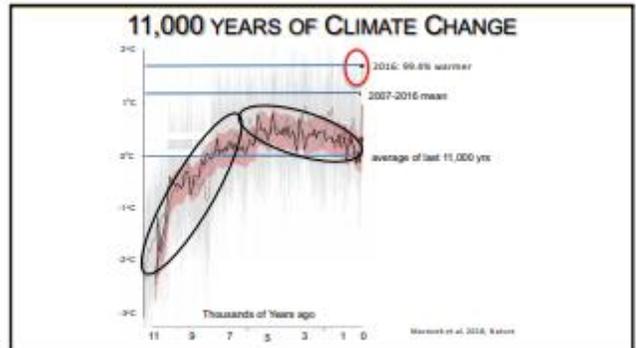
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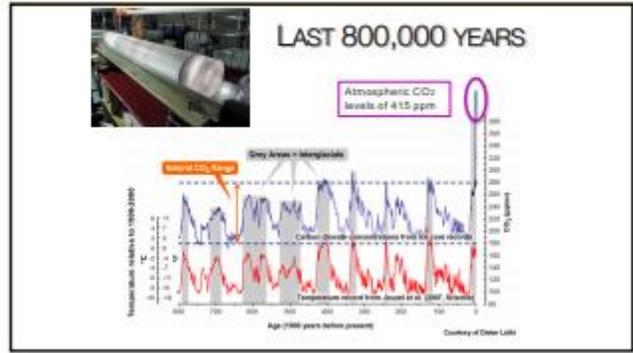
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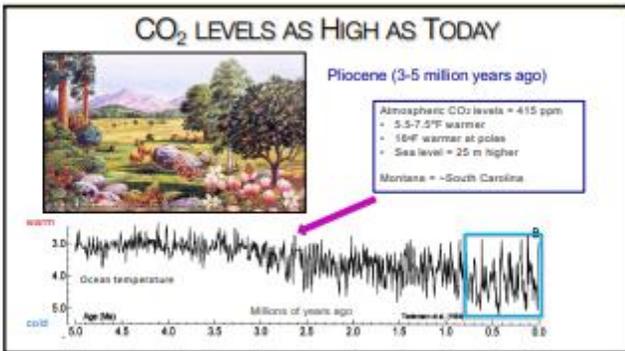
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- ### THREE TALKING POINTS FOR MONTANA
1. Weather is different than climate.
 2. We're getting warming and that affects everything.
 3. We must do something.

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1. WEATHER & CLIMATE

Weather:
short-term changes in the atmosphere

Climate:
average conditions over a long period of time in a specific area.

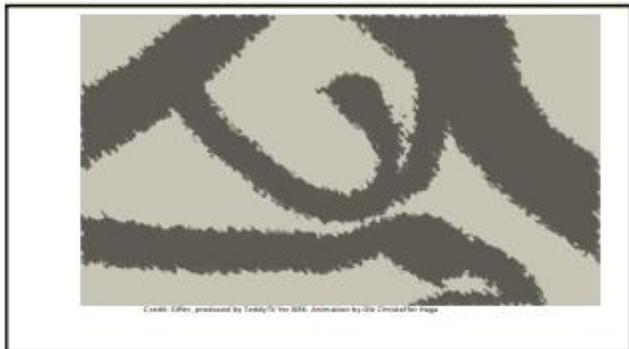


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EXTREME WEATHER EVENTS



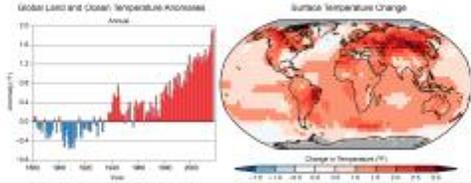
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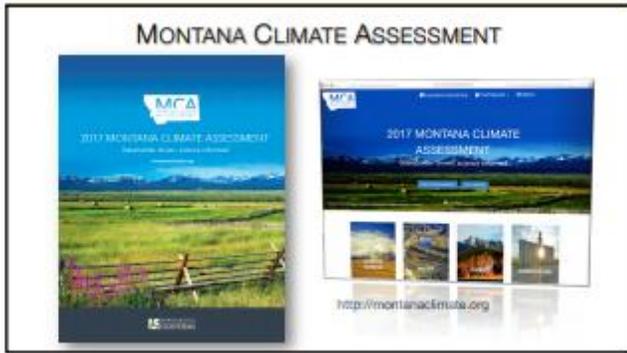
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CLIMATE FACTS

1980s-2018: ~1.5°F increase in US and globally
 2014-2018: warmest five years on record in US and globally
 2018: 14 weather-climate disasters had losses, each exceeding \$1 billion (hurricanes, floods, drought, tornados, fires, severe weather (freezes, hail, dust, etc.))



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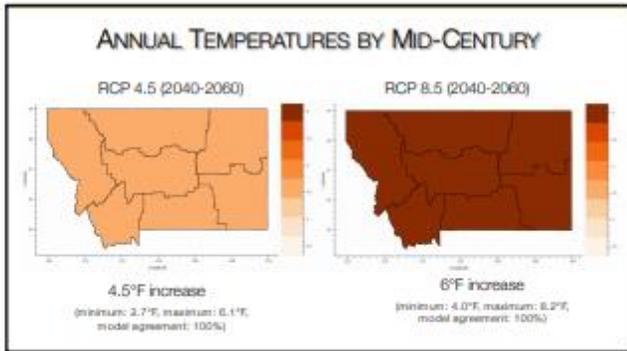
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2. MONTANA IS GETTING WARMER

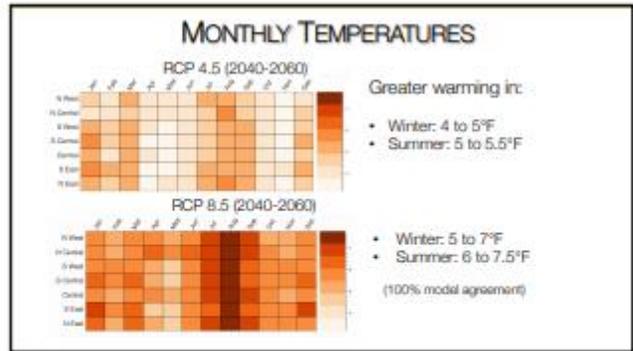
Between 1950-2018:

- Average temperatures have risen 2-3°F. Winter and springs have warmed the most.
- Growing seasons are 12 days longer.
- Slight changes in annual or seasonal precipitation.

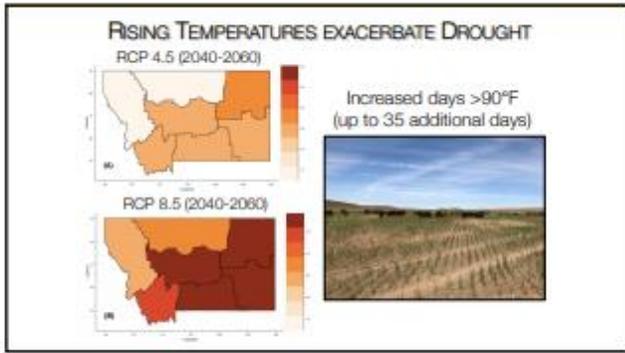
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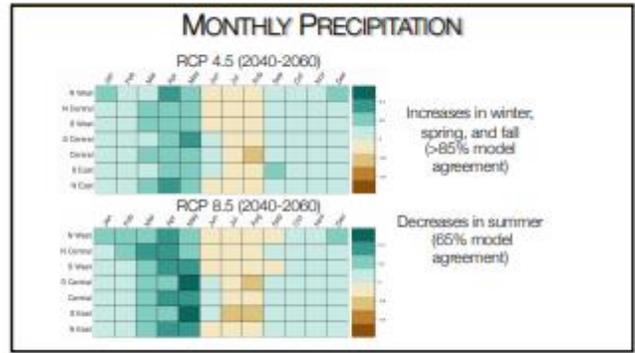
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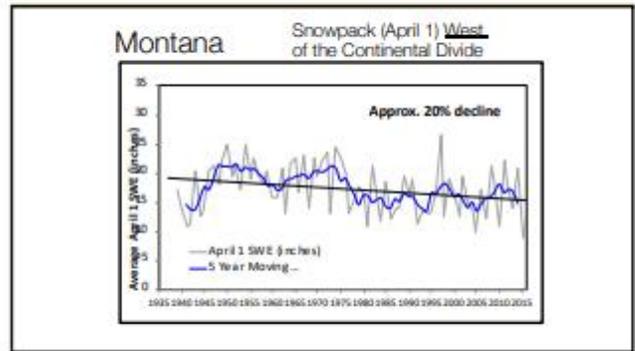
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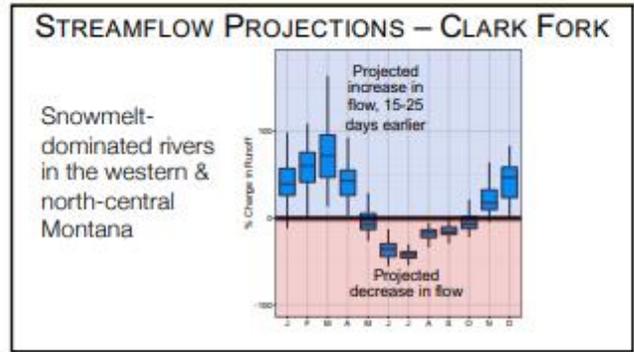
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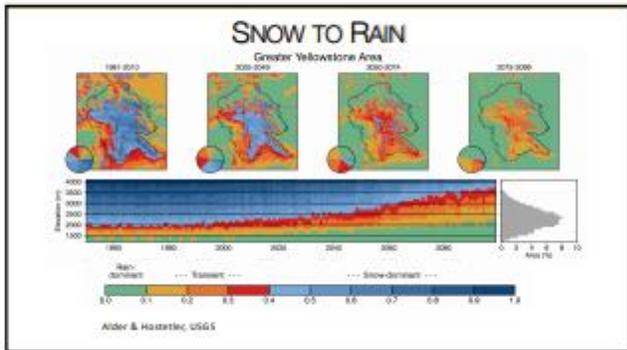
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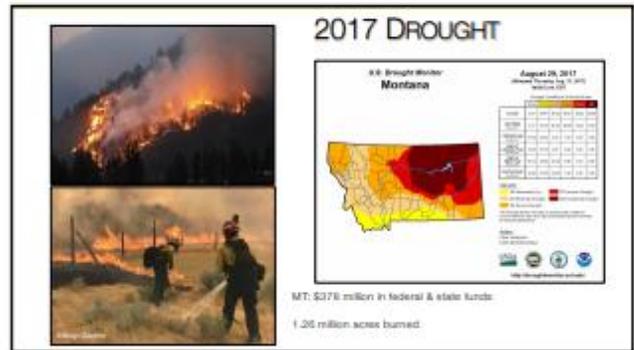
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LIVING WITH WILDFIRES

- Fires have increased.
- Fire season is longer.
- Fires will increase (warmer weather & past management policies in some areas)
- Forest carbon is being lost.

SECRET SCENARIO: WESTERN WILDFIRES & CLIMATE CHANGE

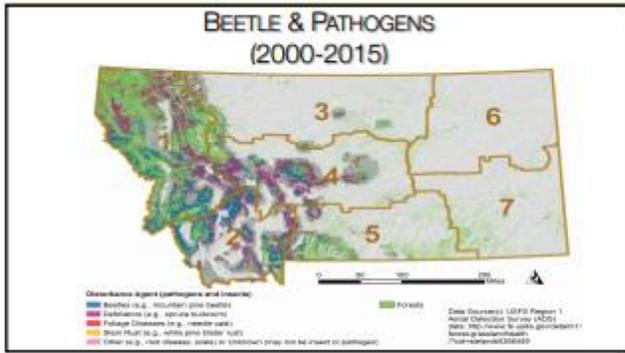
Wildfires are increasing and wildfire season is getting longer in the Western U.S.

Average number of large wildfires per year in the Western U.S.	1980-2010	2010-2030	2030-2050
	-140	-160	-250

Average length of wildfire season

Early 1970s: 8 months	Today: 7+ months
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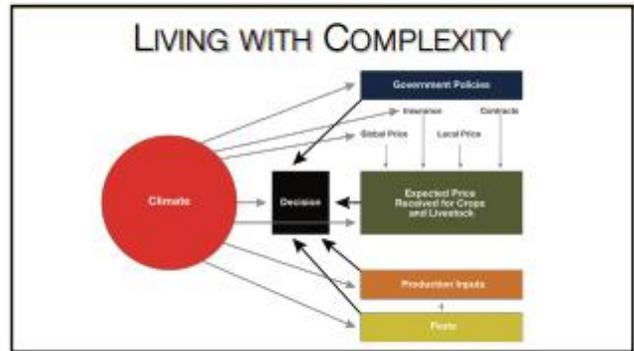
LIVING WITH UNCERTAINTY

- Shortened winter season
- Longer summer season
- Lower late-summer stream flows
- Climate surprises

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MCA: WHERE ARE WE NOW?



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MCA CONVERSATIONS

- Water & water storage
- Floods & droughts
- Wildlife & fisheries
- Wildfires
- Livestock & crop decisions
- Social-economic well-being
- Human health

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