



WELCOME!

City of Ashland
Climate and Energy Action Plan

Initial Public Open House | May 24, 2016

AGENDA

5:30 PM

Open House Begins

6:00 PM

Introductory Presentation

6:30 PM

Visit Stations & Share Your Input

7:30 PM

Open House Adjourns

Why a Climate and Energy Action Plan?





Everyone has a role in
our changing climate



Greenhouse Gas Inventory
Community and City Operations
Results, Analysis and Recommendations



Ashland has a **demonstrated commitment to action** on climate and energy



A City of Ashland Climate and Energy Plan
will solidify a **shared vision** and **blueprint**
for climate and energy leadership.

Planning Approach

1. Baseline Assessment and Goal Setting



2. Action Identification and Evaluation



3. Plan Development and Finalization



MAR

APR

MAY

JUN

JUL-SEP

OCT

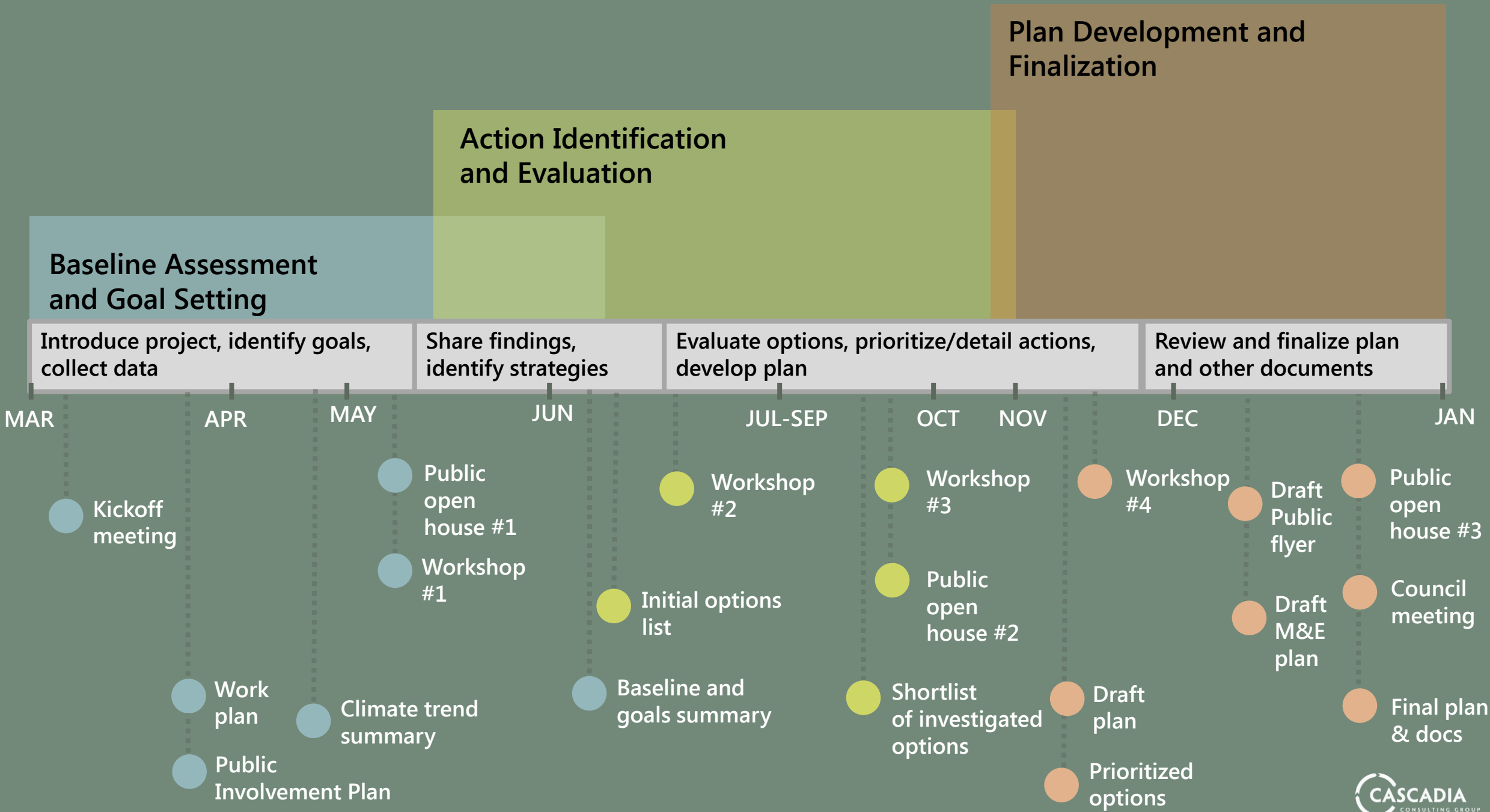
NOV


DEC

JAN



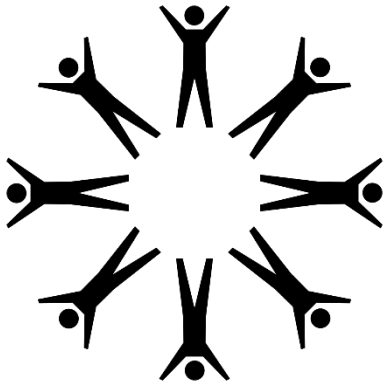
Public Engagement | City Engagement
Climate Mitigation | Climate Resilience



A large, diverse crowd of people is arranged in a heart shape on a white background. The people are of various ages, ethnicities, and are wearing colorful clothing. Some are standing, some are walking, and some are on bicycles. The heart shape is formed by the crowd's arrangement, with the text 'Your input today is vital!' centered within it. The text is in a large, bold, black font.

**Your input
today is vital!**

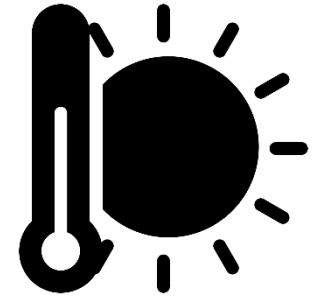
Why should I participate?



Celebrate
your community

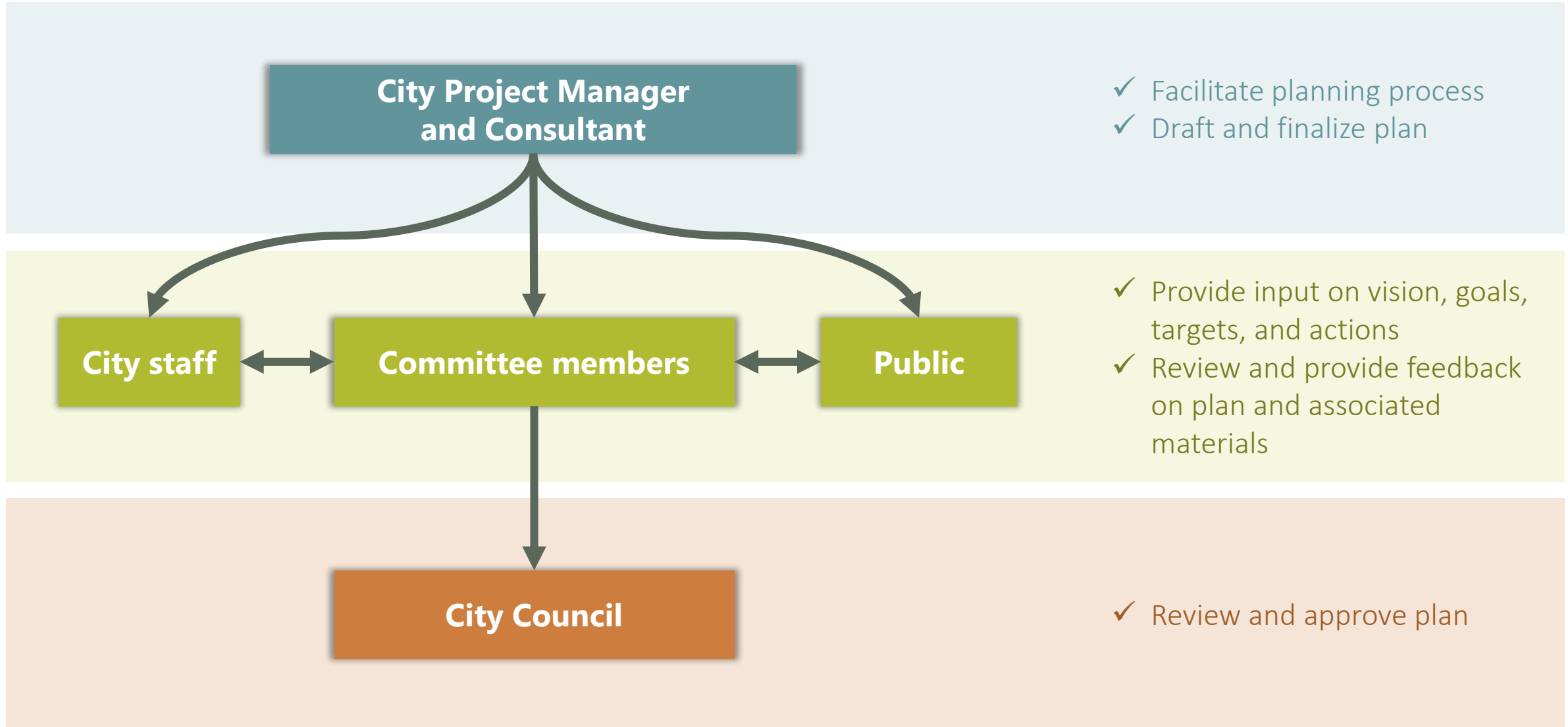


Direct priorities
for on-the-ground
project and public
spending



**Shape Ashland's
climate future**
for residents,
businesses, and visitors

Everyone has a role.



How can I participate?



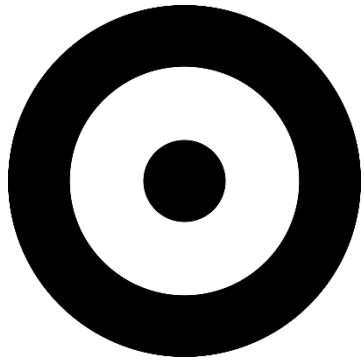
TODAY Fill out a comment form

EMAIL climateplan@ashland.or.us
or
adam.hanks@ashland.or.us

ONLINE Take our survey at:
www.Ashland.or.us/climateplan

FUTURE MEETINGS September 25, (Sunday afternoon)
December 7 (Wednesday Evening)

How will my input be used?



Vision, targets,
and overarching
goals



Focus areas



Implementation
strategies

Progress To Date:
Where are we now?



ASHLAND CLIMATE CHALLENGE

SAVE ENERGY. WIN BIG!



**BUSINESSES, RESIDENTS, AND ORGANIZATIONS WORKING TOGETHER
TO CREATE A CLEAN ENERGY FUTURE**

[illegible]



Greenhouse Gas Inventory
Community and City Operations
Results, Analysis and Recommendations



Goods and Food

160,000 MT CO₂e

- Manufacture of goods and food (from inside and outside the region) consumed by Ashland residents
- Freight transport of goods and food
- Waste management systems

Buildings

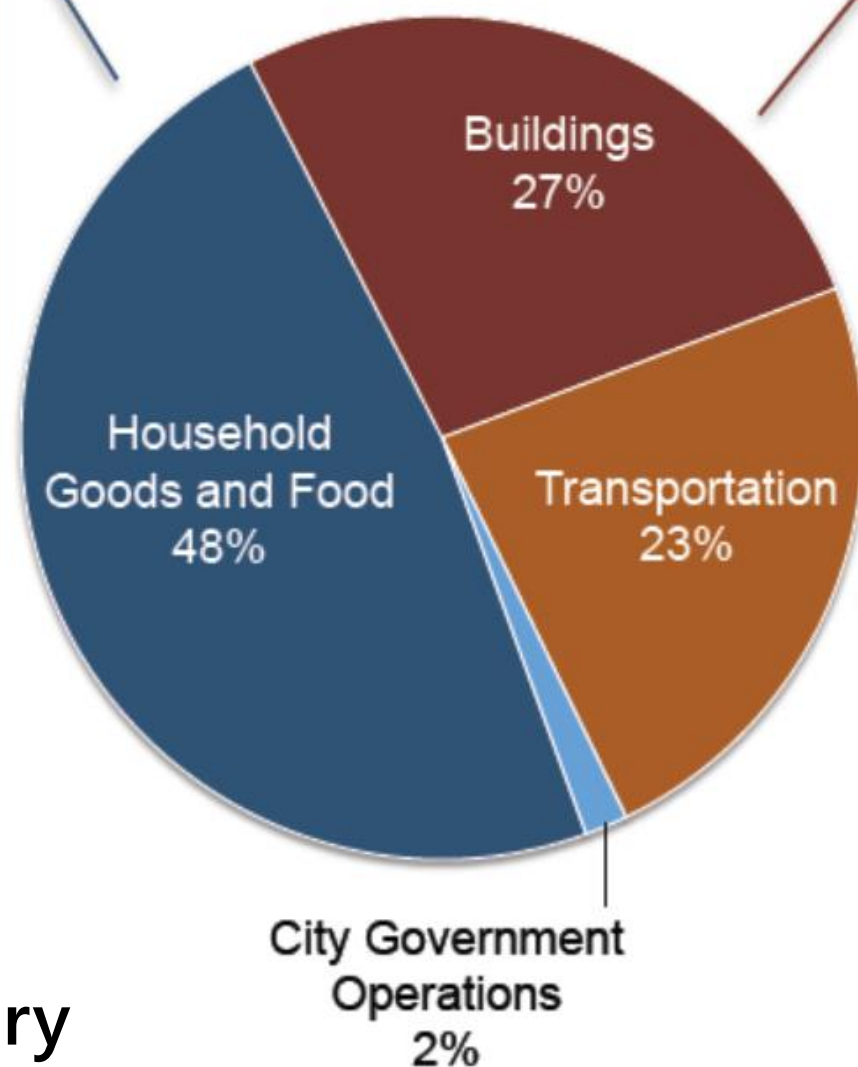
90,000 MT CO₂e

- Fossil fuels used to generate electricity consumed in Ashland
- Natural gas use by Ashland households and businesses
- Refrigerant leakage from air conditioning systems

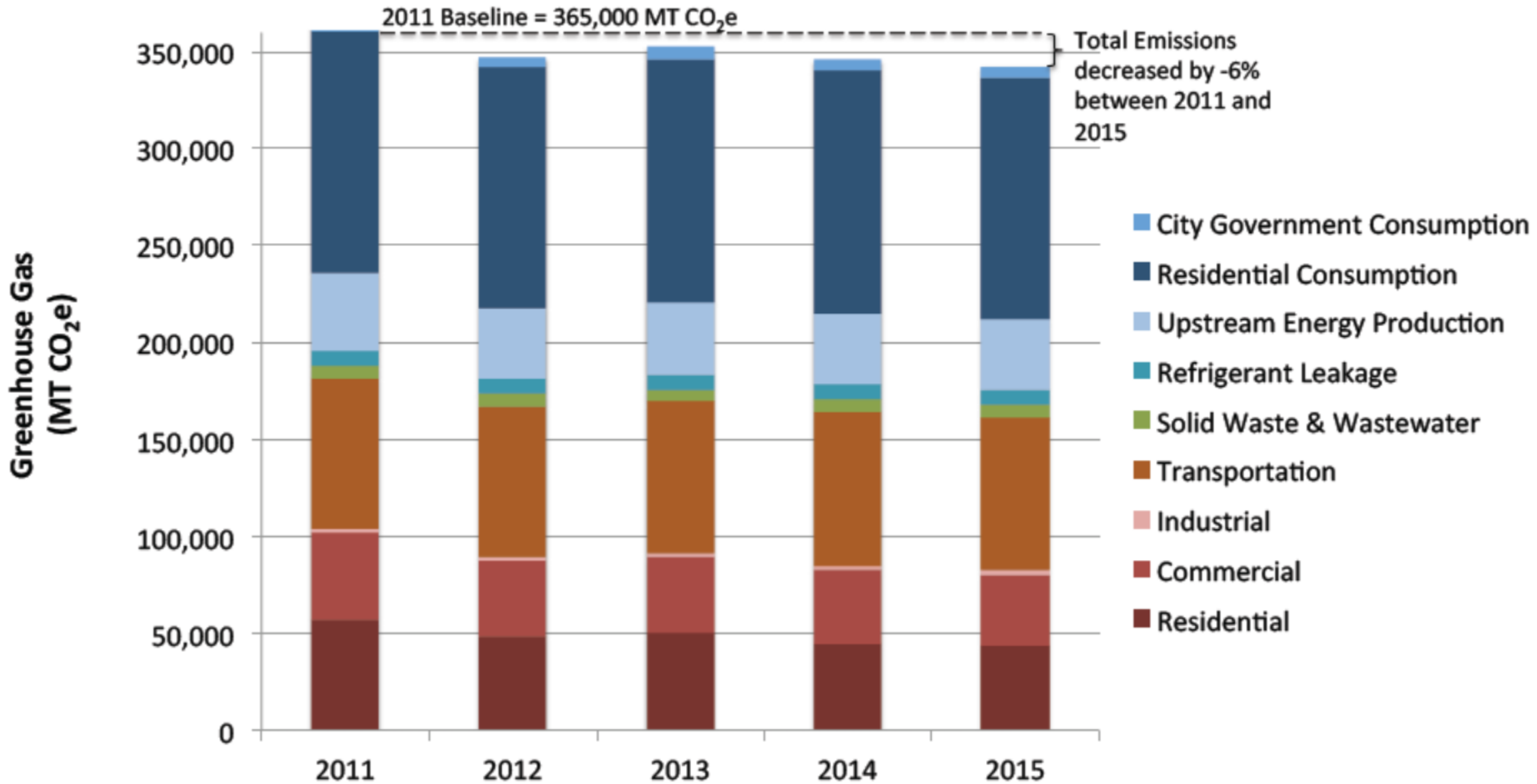
Transportation

80,000 MT CO₂e

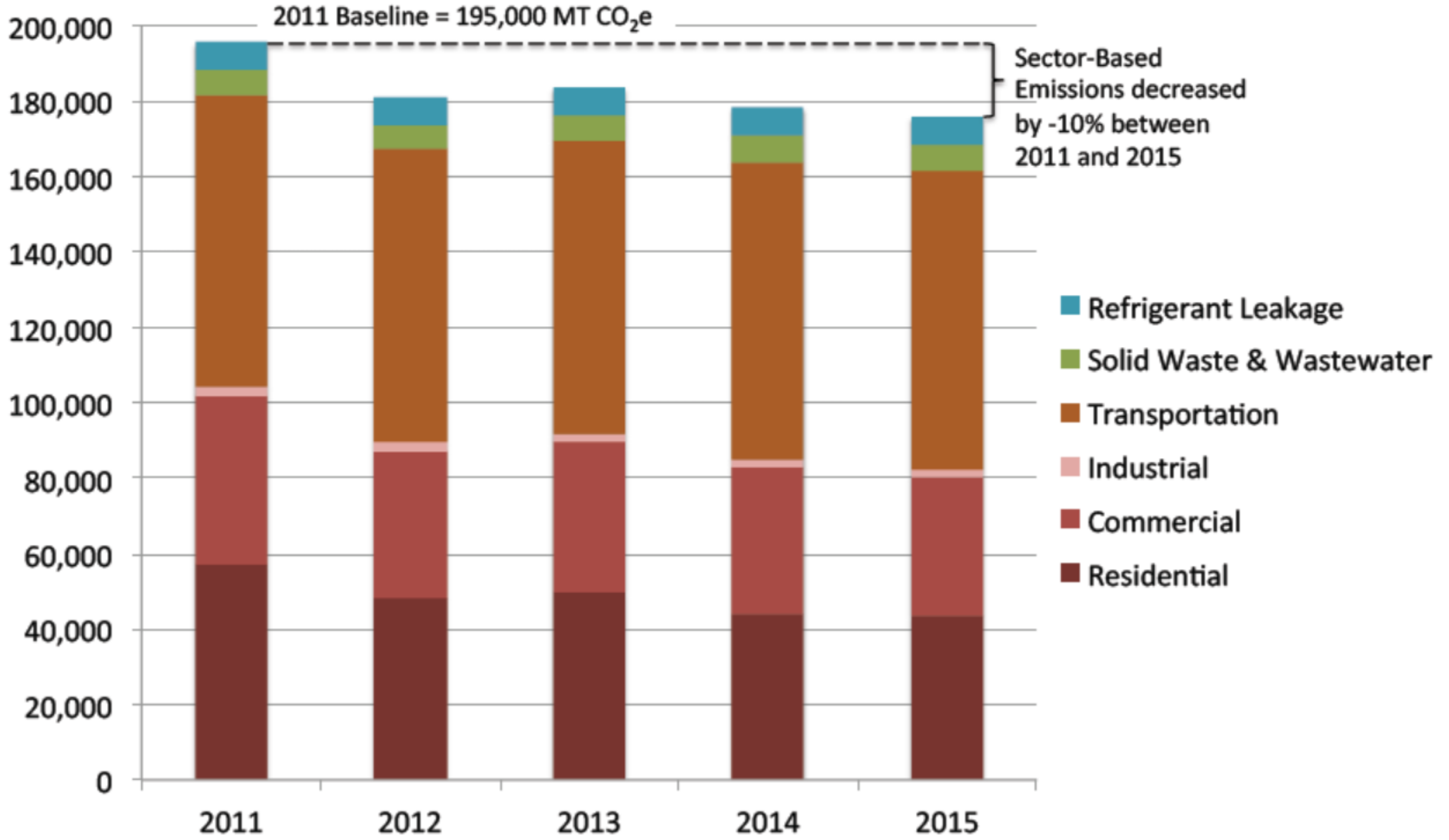
- Passenger vehicles
- Local freight
- Public transit (buses)
- Air travel

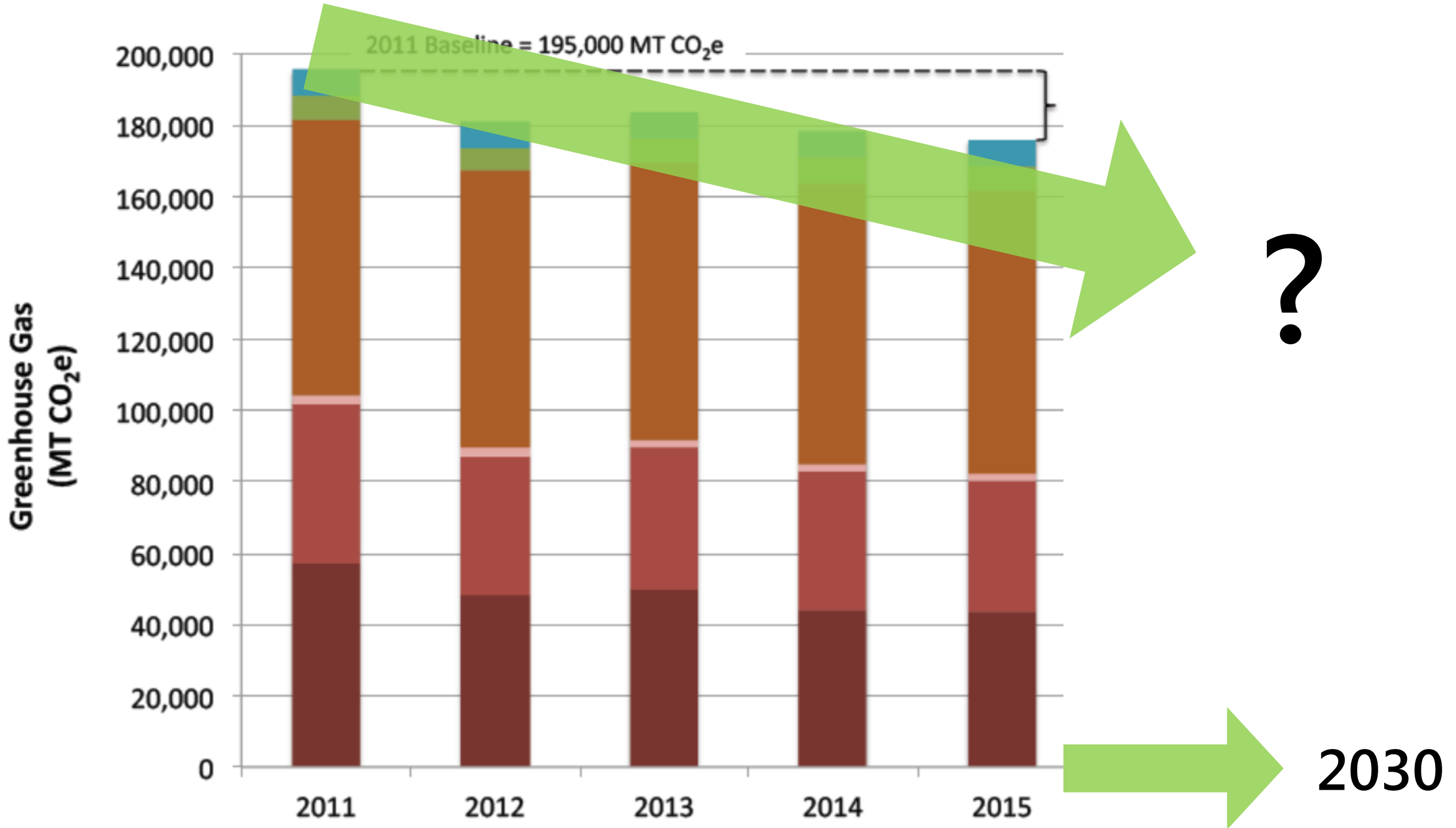


**Ashland's 2015
emissions, by category**



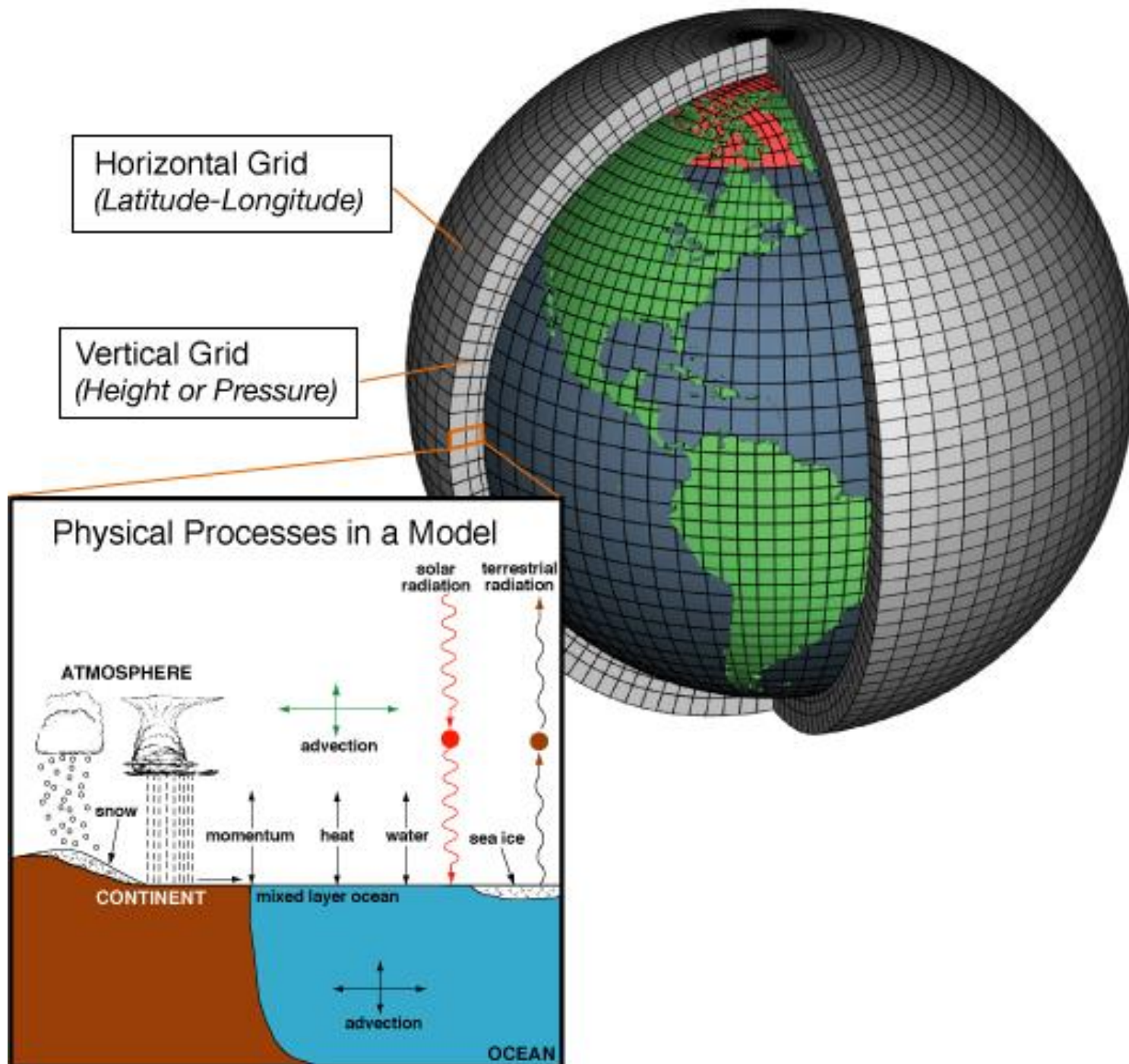
Greenhouse Gas
(MT CO₂e)



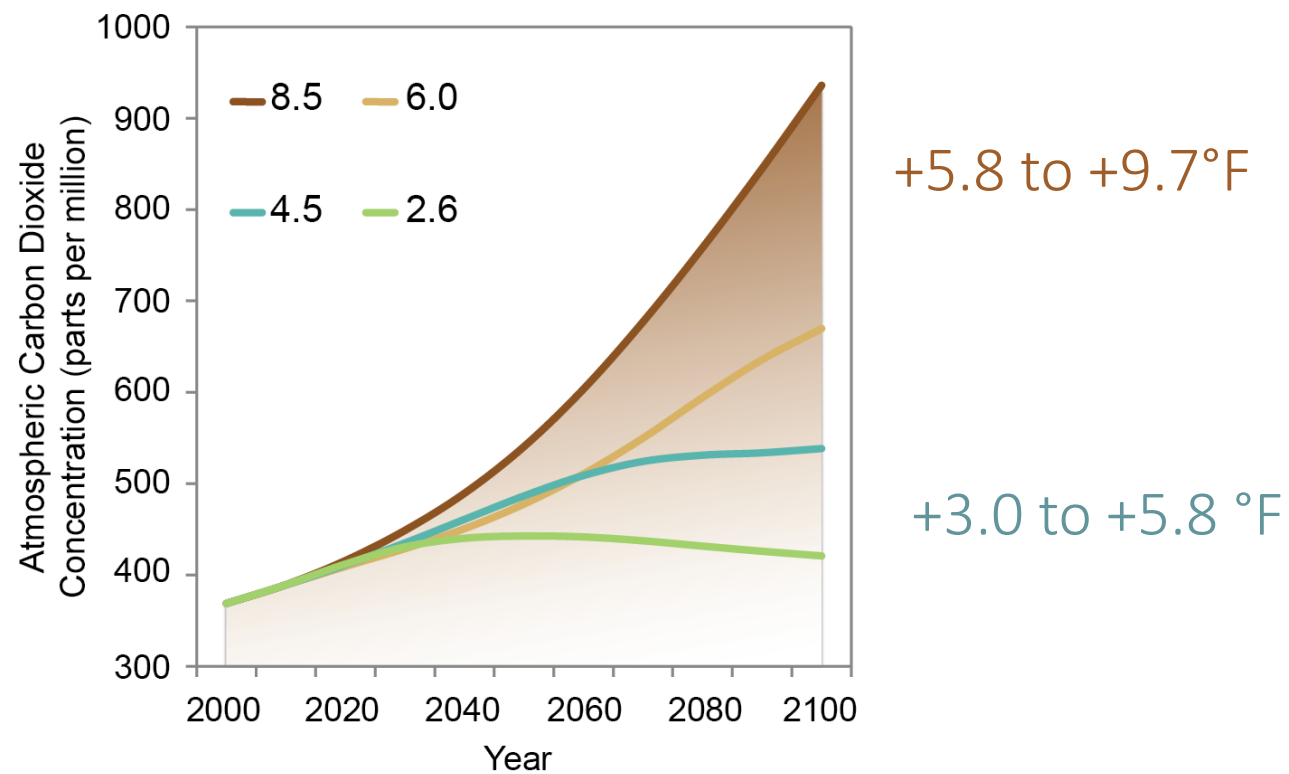
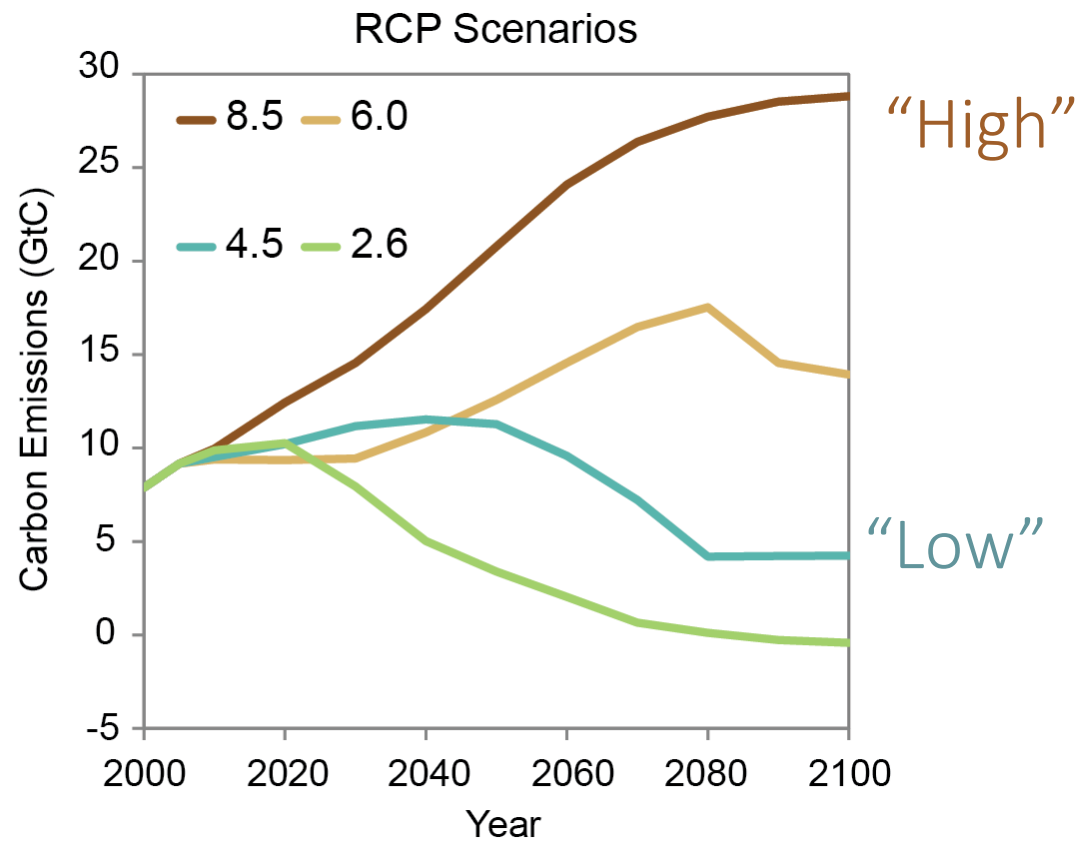




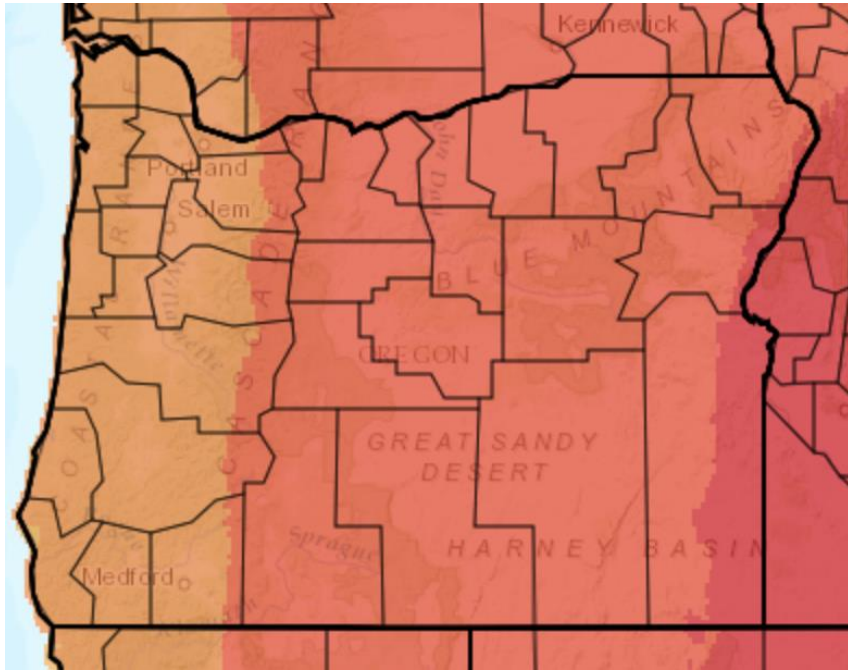
How will climate change
affect Ashland?



Source: <http://celebrating200years.noaa.gov/breakthroughs>

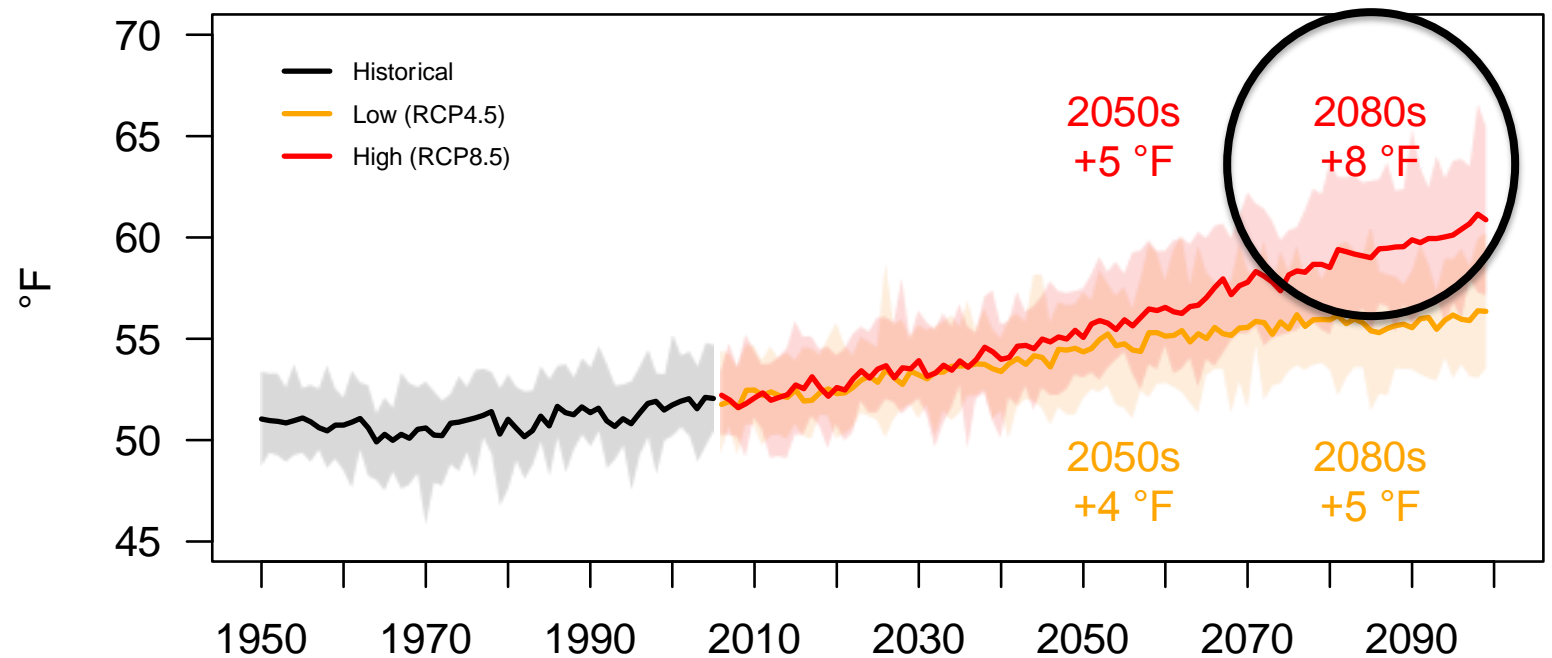


Temperature Increases

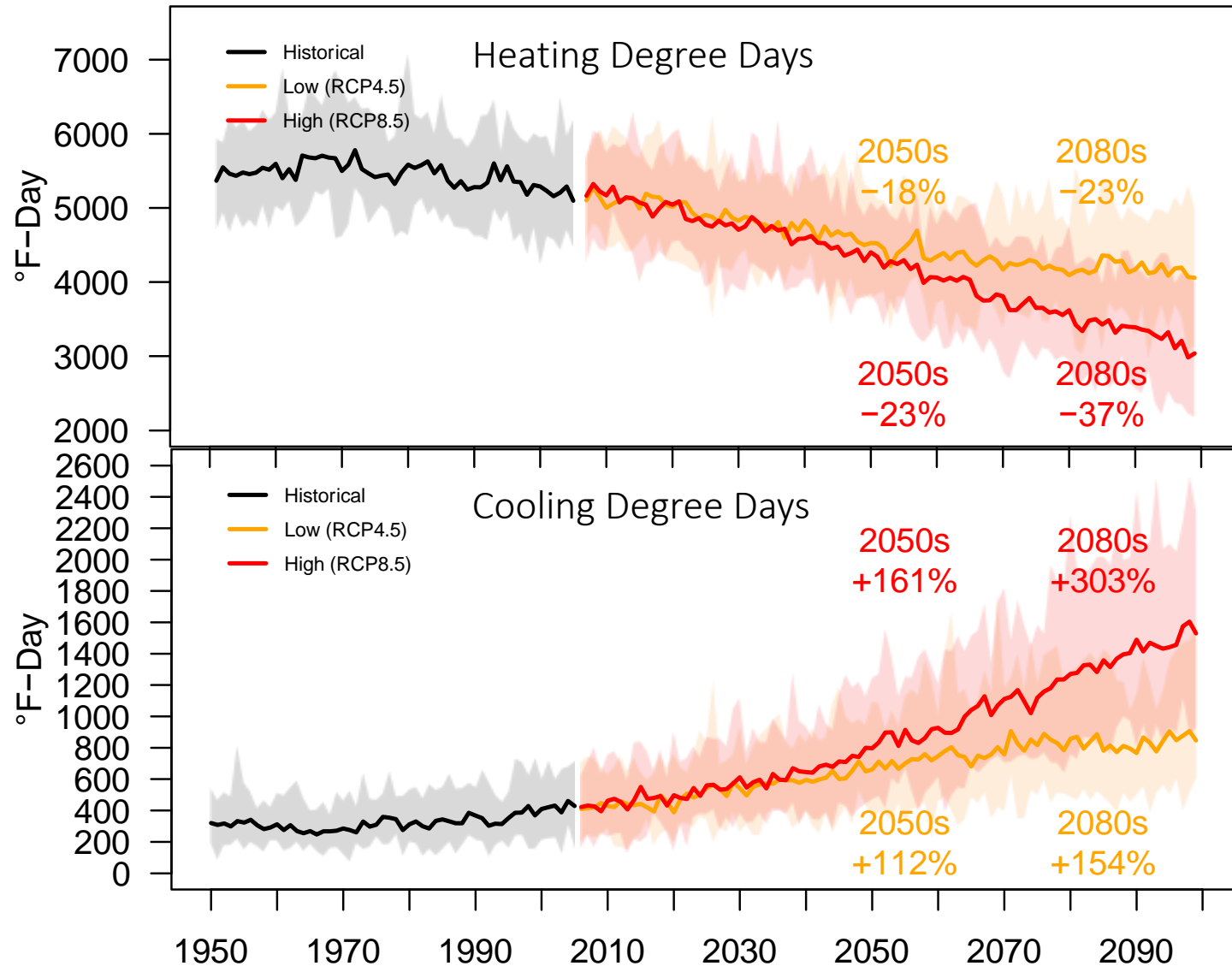


Source: <http://climate.nkn.uidaho.edu/HUB/#>

Ashland Average Temperature Projections



Heating & Cooling Degree Days

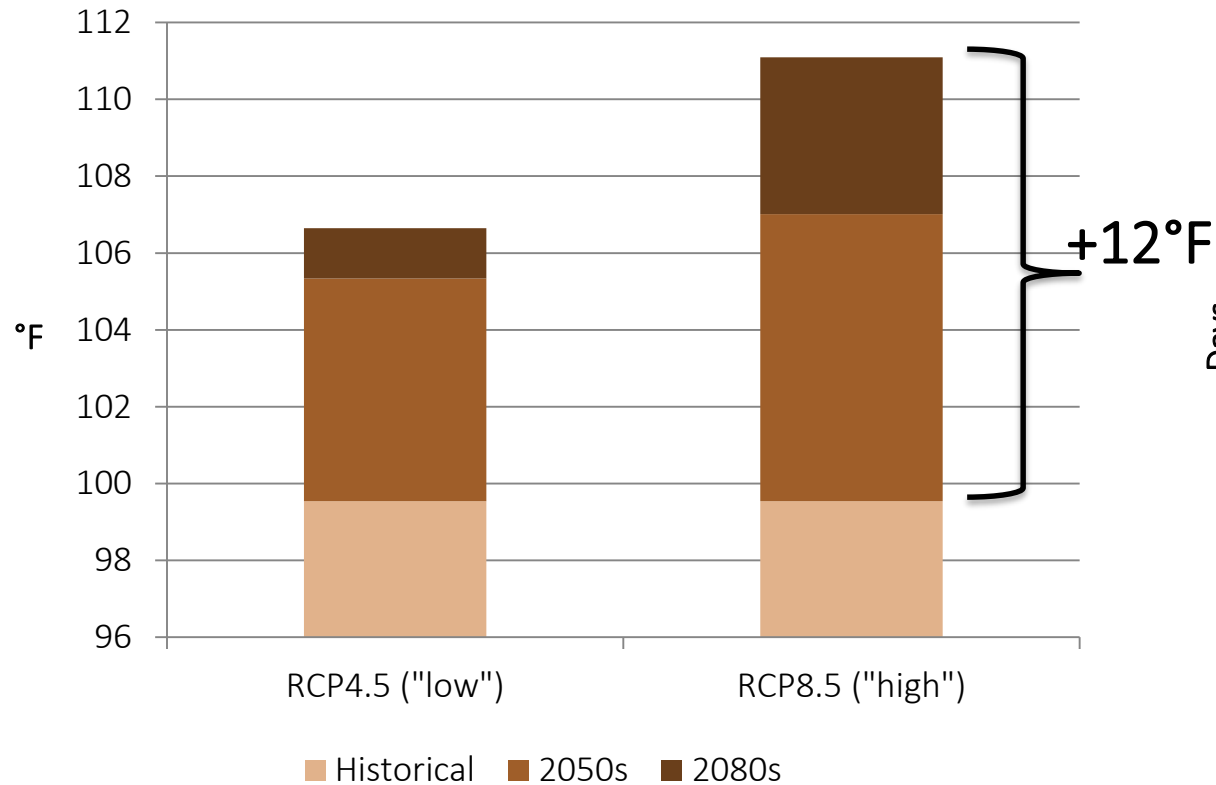


Degree-day==
How much, and for
how long, the
temperature is
above/below 65°F
during the year

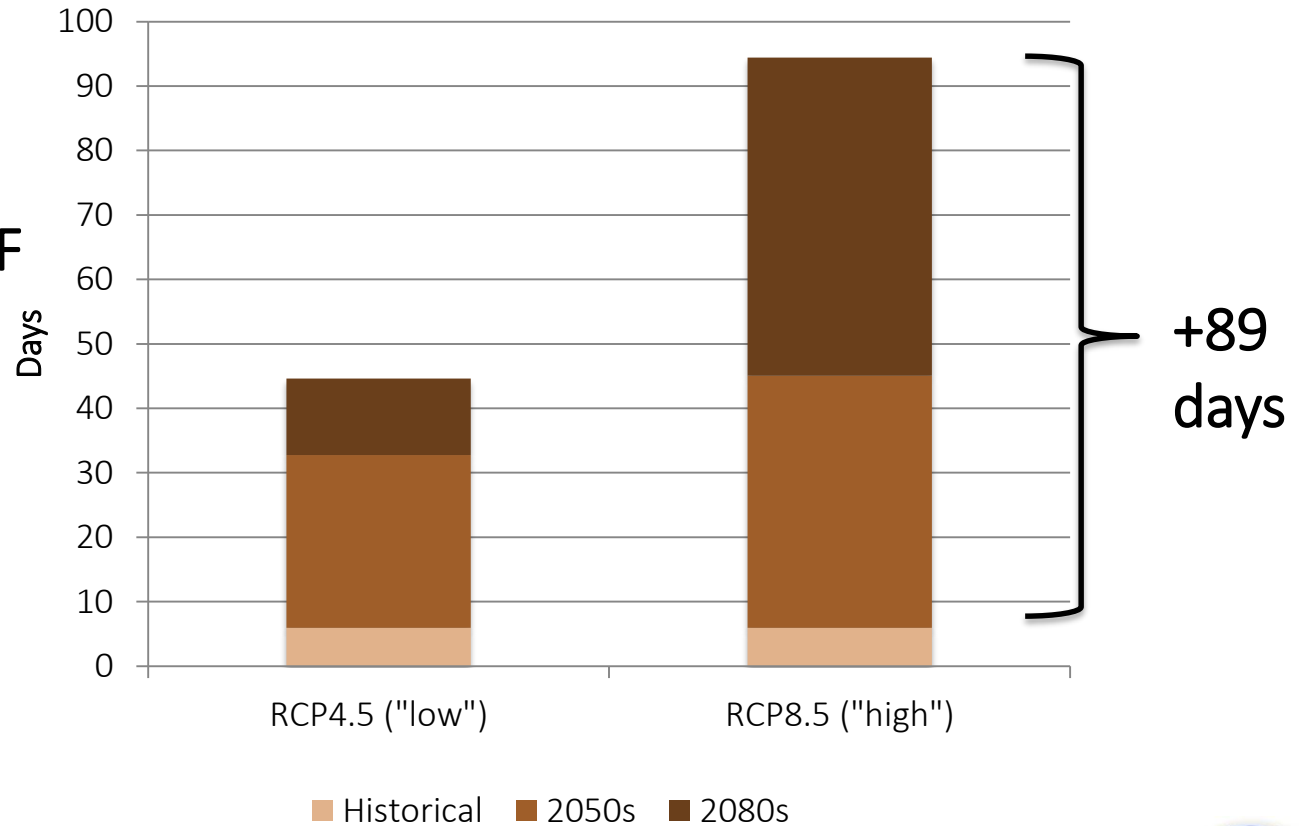
**Less heating, but more
air conditioning**

Extreme Heat

Hottest Day of the Year

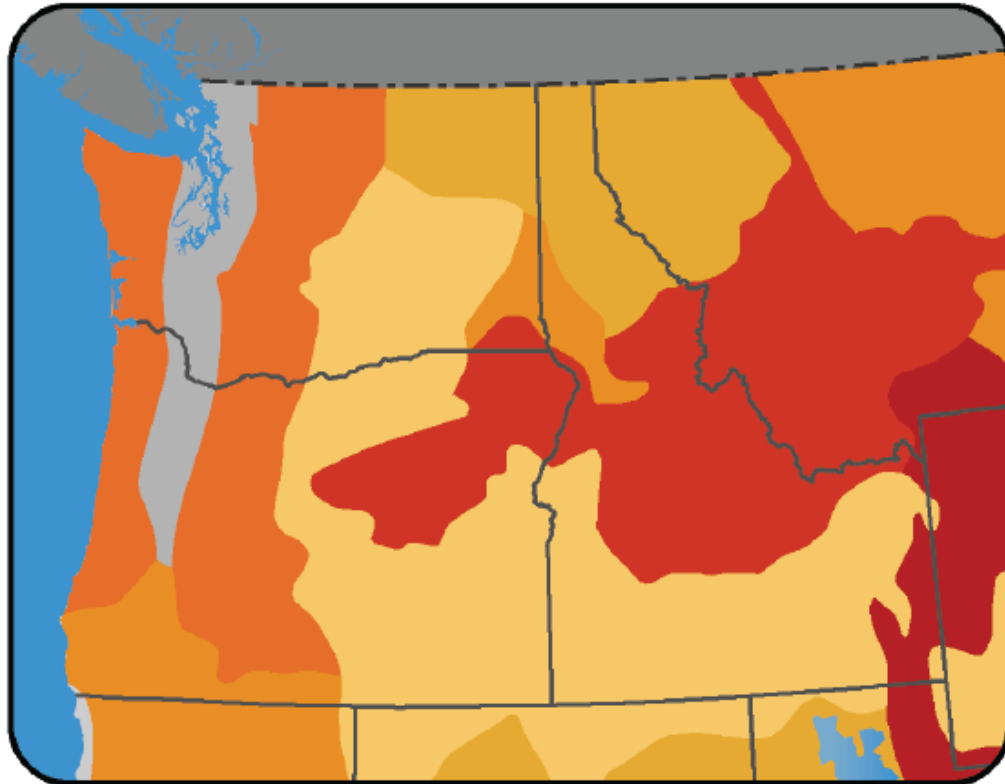


"Warm Spell" Days



Warm Spell == 6+ consecutive days
In top 10% hottest for calendar date

Wildfire Risk



Source: Mote et al. 2014

Projected Increase in Area Burned



+30% increase in
large fires across
western US

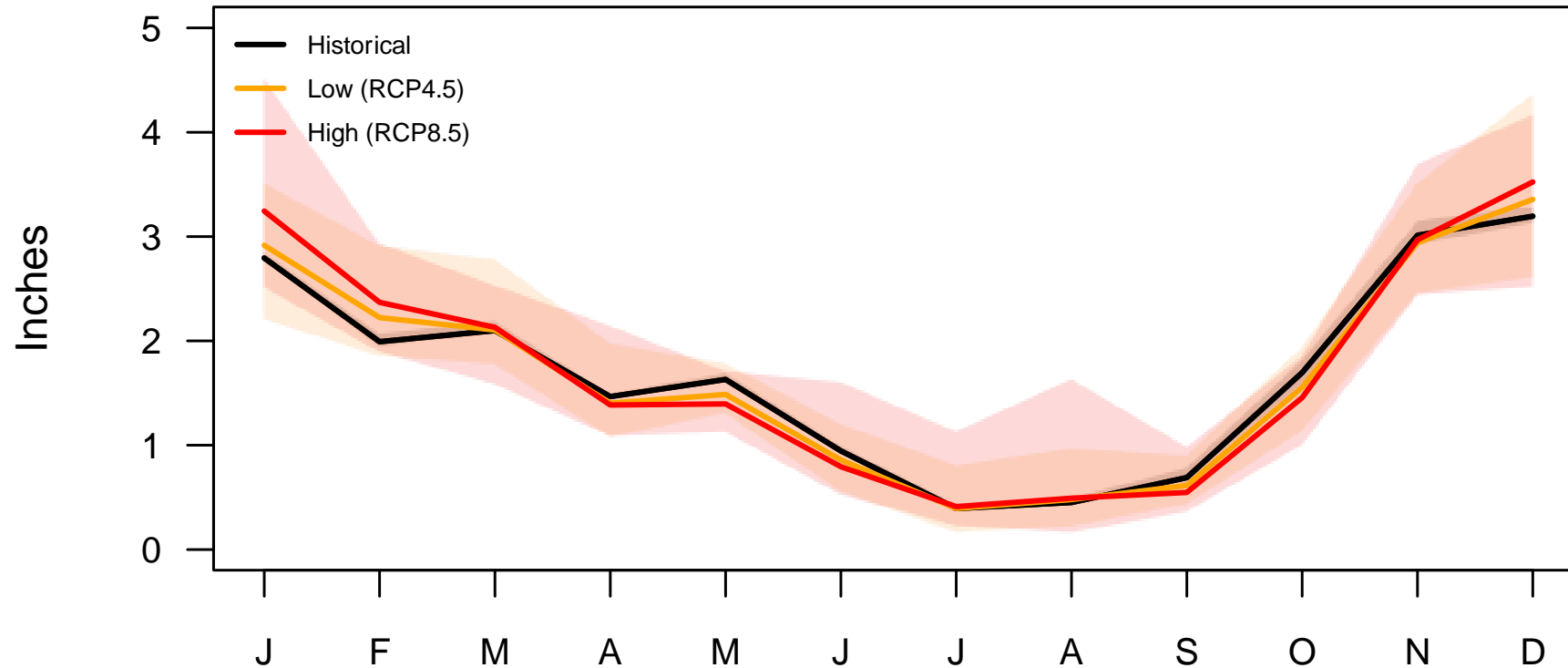
(Stavros et al. 2014)

-40 years decrease
in average time
between fires in
western OR & WA

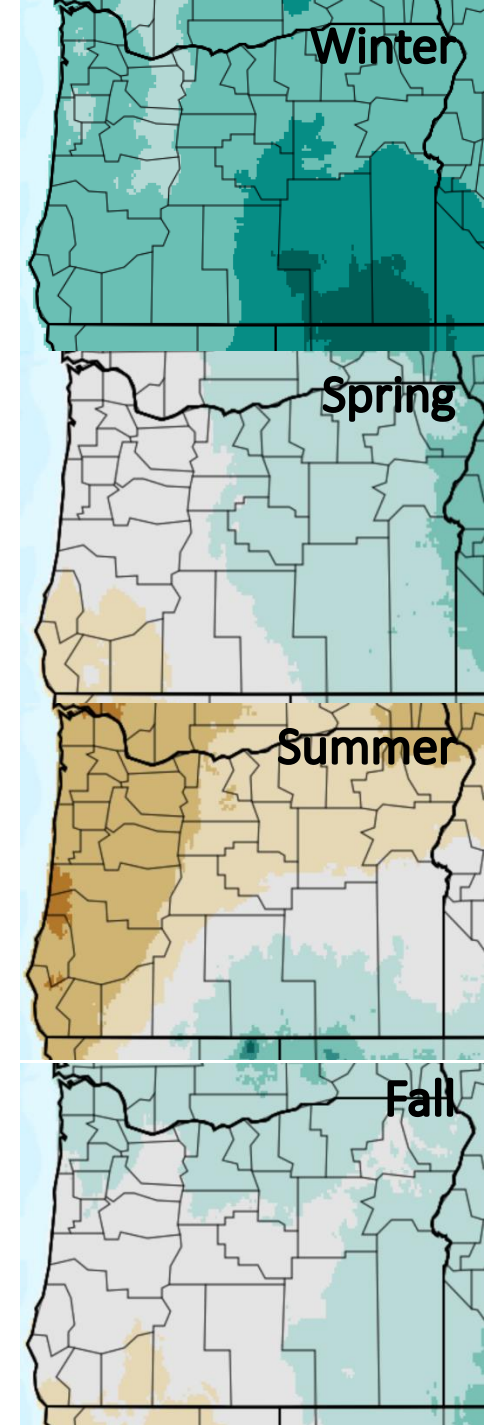
(Sheehan et al. 2015)

Seasonal Precipitation

Ashland Monthly Precipitation Projections 2080s & Historical



More winter precipitation; less other times of year



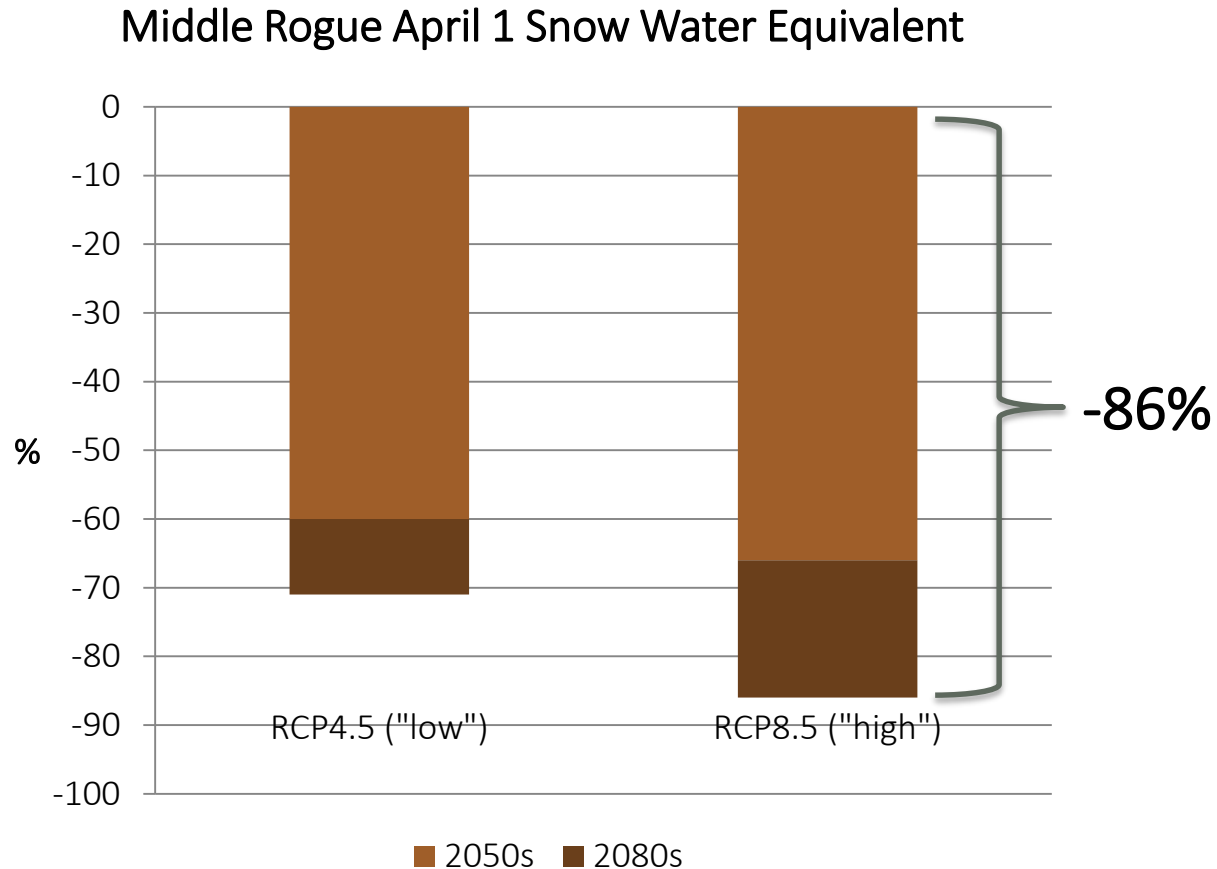
Source: <http://climate.nkn.uidaho.edu/HUB/#>

Heavy Rainfall & Drought Risk

2080s vs. historical baseline

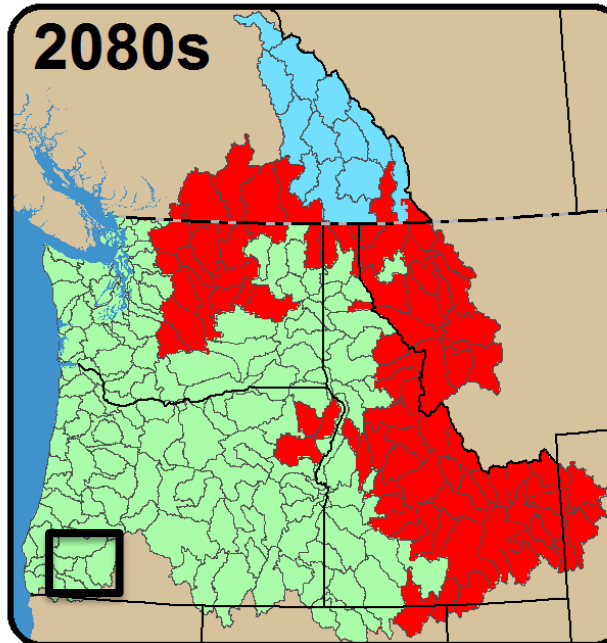
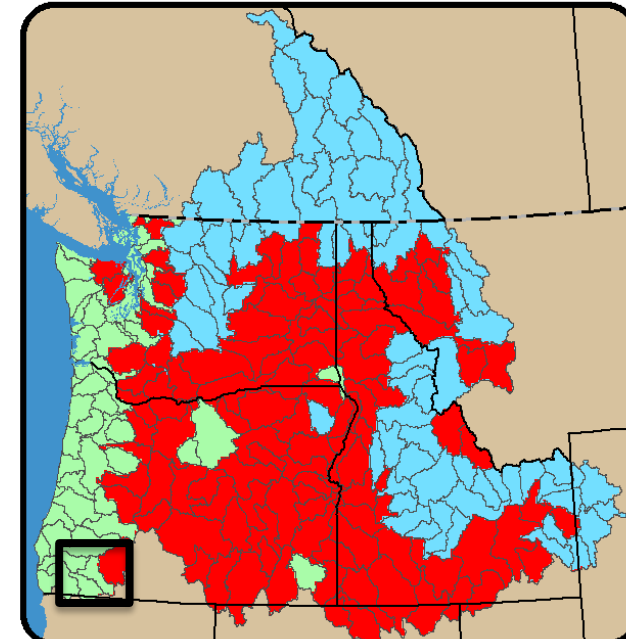
	Multi-Model Mean	Range
Days w/ >20 mm precipitation	+0.7 days	-0.5 to +2.2 days
Amount of precipitation on 5% most extreme days	+1.3"	-0.2" to +3.4"
Longest dry spell	+6 days	-8 to +21 days

Changes to Snowpack



More precipitation falling as rain rather than snow

Historical



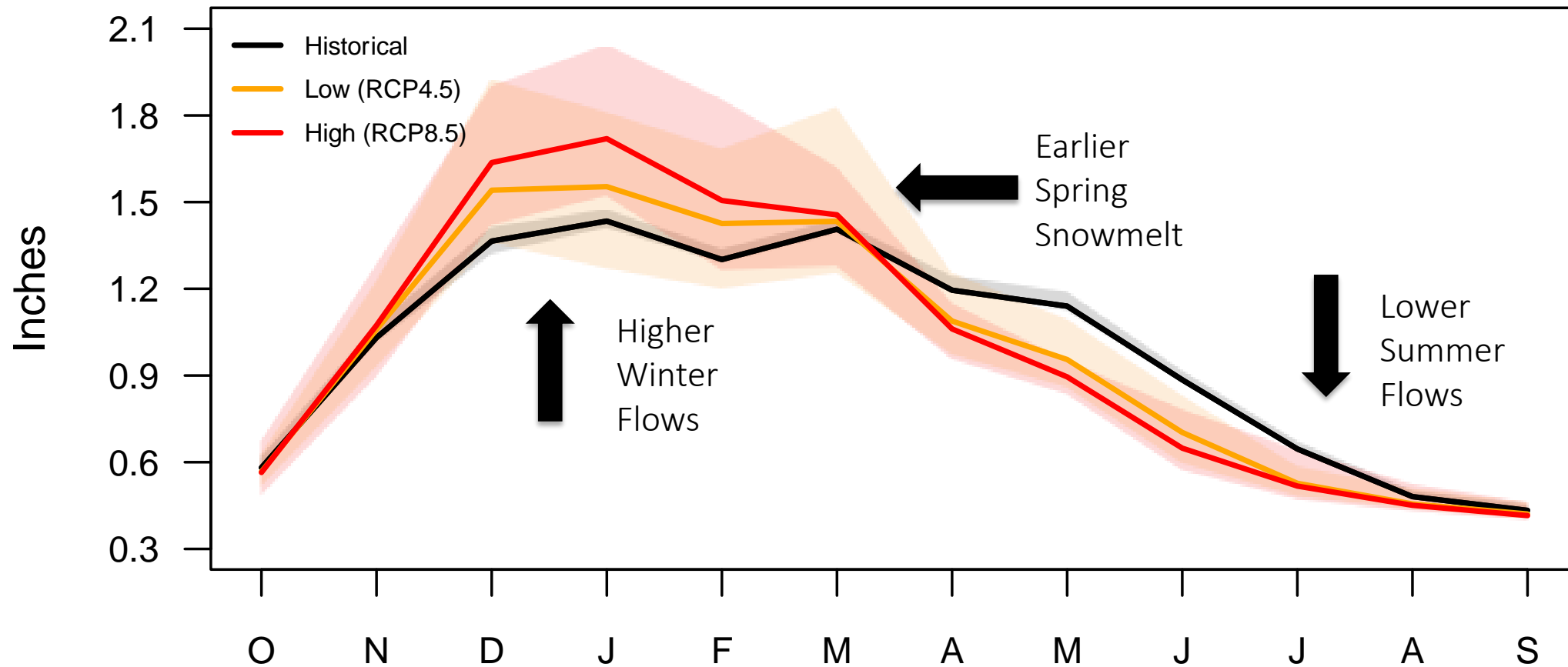
Ratio of Peak Snow Water Equivalent to October to March Precipitation

- < 0.1
Rain dominant
- 0.1 - 0.4
Mixed rain-snow
- > 0.4
Snow dominant

Source: Hamlet et al. 2013; Raymondi et al. 2013

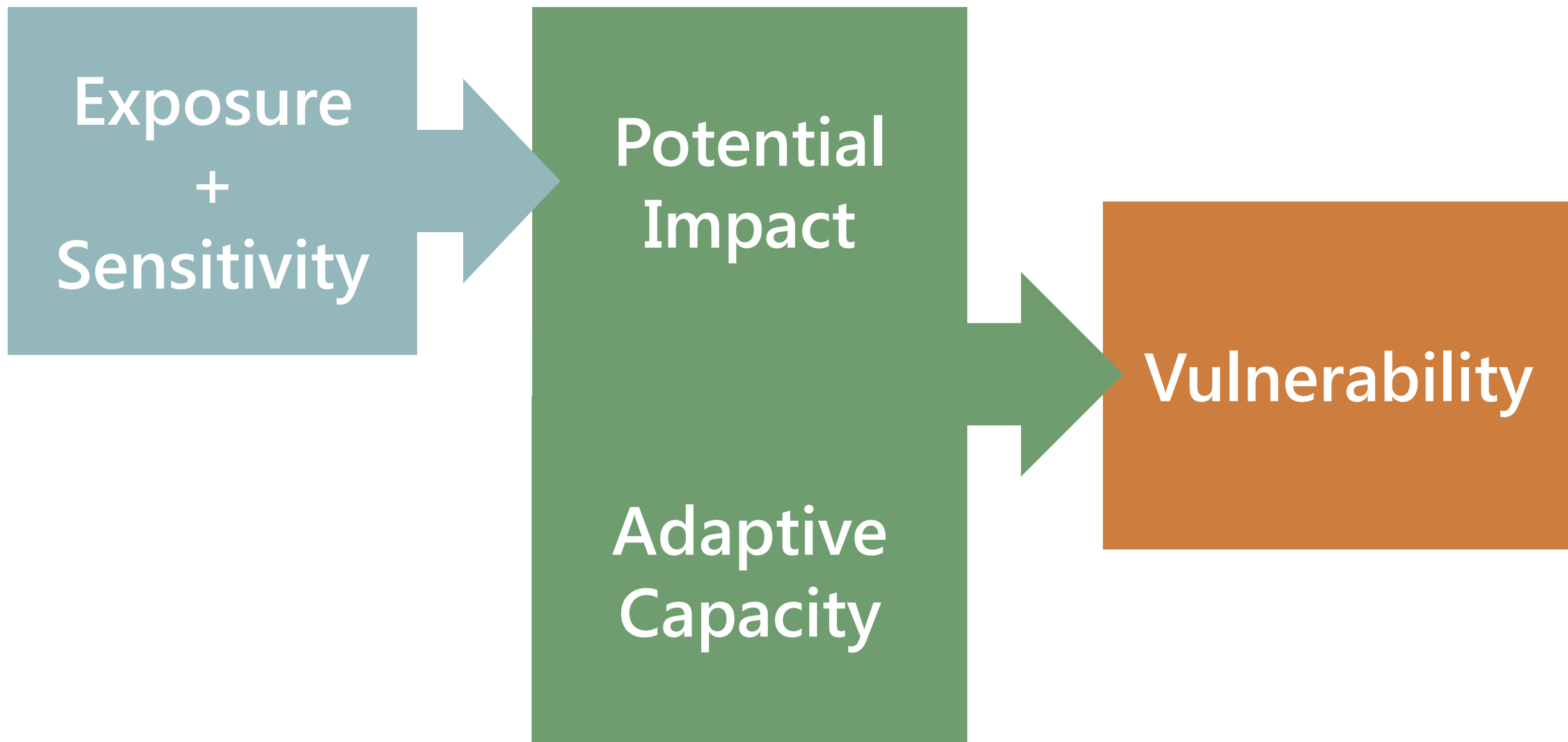
Water Availability

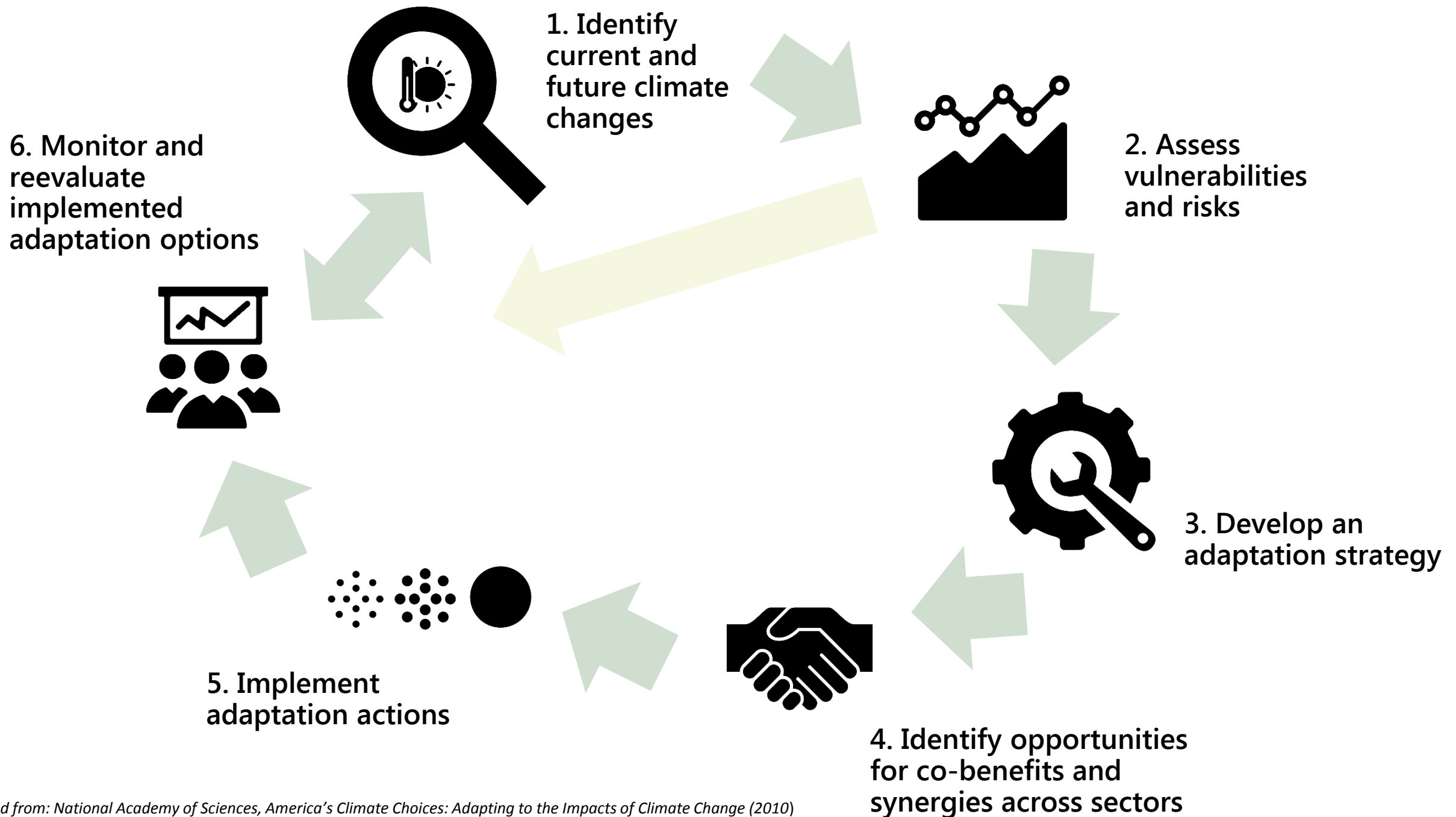
Middle Rogue Monthly Total Runoff Projections 2080s & Historical



Next Steps







**What are we
doing today?**



Visit stations!

Chat with the
planning team!

Learn!

Let us know
what you think!

Today's Open House Layout

Station 3: How's Ashland Doing?

- Tell us what Ashland is already doing well, and what the City and community could do better.

Station 2: How Climate Change Will Affect Ashland

- Learn about how climate change could impact Ashland.
- Tell us which climate impacts concern you most, and what Ashland should do to prepare.

Station 1: Ashland's Climate Footprint

- Learn more about the city's recent greenhouse gas inventory.
- Tell us what you think the inventory means for Ashland.

COMMENT AREA

- Complete our online survey
- Fill out a comment card

Station 4: A Shared Vision for Ashland

- Share your vision of a future Ashland that addresses climate change pollution and impacts.

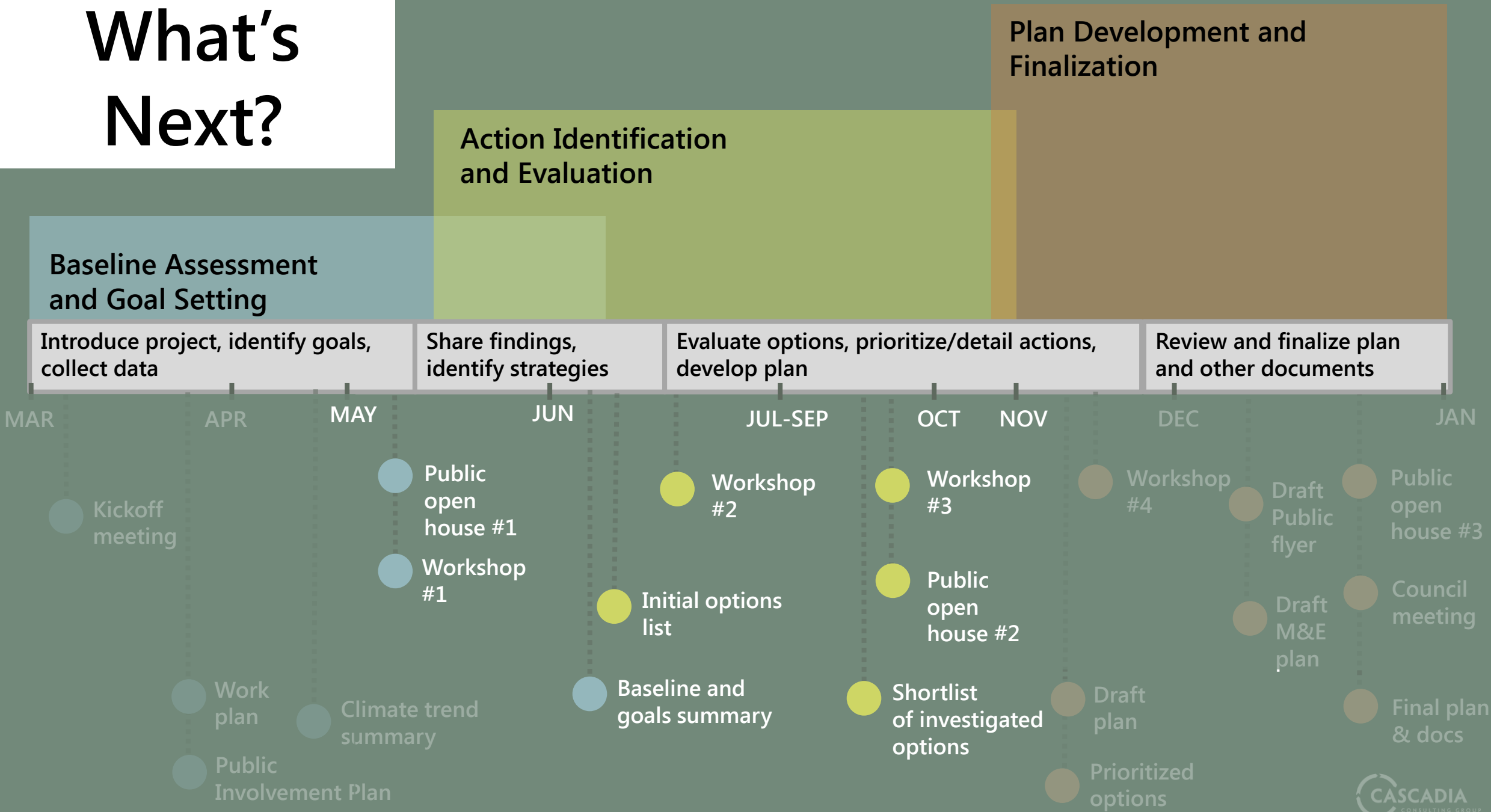
Station 5: Taking Action

- Provide your ideas for taking climate action in Ashland.

WELCOME AND
REGISTRATION AREA

STAGE

What's Next?



Thank you for your participation!

HOW CAN I STAY ENGAGED?

Sign up for email updates

Attend another open house (9/25 & 12/7)

Visit www.Ashland.or.us/climateplan



Answer the following question:

What action should Ashland be sure to take in the next year and next 15 years to address climate change?

Email climateplan@ashland.or.us by June 2nd!