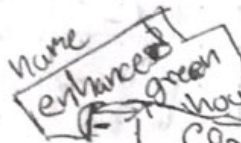


This book will save the planet by Perry Sigwalt

Notes

C1 how why is our climate changing?

- Sun <sup>light</sup> traveling to earth
- Sun light bouncing back out until a few hundred years ago
- Stable temp



- no ice melting, oceans + atmosphere at good temp
- CO<sub>2</sub> causing earth to absorb more sunlight
- greenhouse gases cause less sunlight to reflect back in to space

- Cutting down trees + burning fossil fuels

- combust + burn → create energy we use to power most things
- release greenhouse gases into air

- ~~GHG~~ alter chemistry of soil, water, + air

- Climate change → "threat multiplier" - not fully understood yet

ice melting

- World's refrigerator = arctic + antarctic
- reflect heat back into space
- Balances other parts of world
- less reflected sun due to less ice
- intenser heat waves
- Polar Jet streams - high pressure ~~wind~~ wind circling arctic
- ~~affected~~ affected by hot air from the south
- Colder weather
- Permafrost - permanently frozen ground underneath ice
- release methane
- traps ~~the~~ sun's heat more in the atmosphere
- ice turns into more than just water
- less ice = access to wilderness to be mined and used.

24

Notes on ~~book~~

What I learned

CI

Extractive Capitalism - Put the economic/political needs above the planets and peoples.

- ~~11~~ 11 mill. gallons of oil spilled in a lakes wilderness. ( Exxon Valdez )
  - animals pop. not recovered yet
  - communities left to deal with consequences.
- Climate Diary - What's happening around us. Climate effects.

Next Page

It is so true that we need to work together to solve these issues especially because they are all so connected. Climate change ~~is~~ effects marginalized communities the most. Their lives get destroyed because they don't have a house they can safely stay when there is a hurricane. These things and others happen all the time. I liked the way it was explained to. It made a lot of sense and I was not confused on anything.

What I thought about it

- That sounds like ammonia
- There is so much politeness about or can't deal with because they don't have enough control.

Why would they do this. The people who ~~the~~ spilled the oil should be helping deal with the consequences.

- it's very selfish and all they care about is making money.
- they don't realize how many people it affects.

It's a really cool idea.

Previous Page

I didn't know so much about ~~the~~ why exactly the ice was melting and how it was affecting us. It was actually really interesting to learn about ~~a bunch of~~ all this stuff.

## C2 What is climate justice

23

"Racial justice is climate justice"

CS = climate justice  
CC = climate change

P  
20+21

• Climate activists join the racial justice movement

- White supremacy + Climate crisis
- Build power + Share resources
- Not 2 sides or sides of the fight. We are all fighting for a better future

- Pipeline - ruled by extractive capitalism + systemic racism.

P - Immigration crisis

22+23 ~~Some~~ Some were more important than climate change

Climate change

Created by:   
White Supremacy   
Heteropatriarchy   
Extractive Capitalism

- harm + poison the planet
- take down then rebuild in a way that heals our relationship with the natural world and upholds human dignity

E.S.

- not about forcing an agenda on people who suffer from the systems climate change is built from

P - Working together to fight against the inequalities in our world.

24+25

- Europeans in the 15th + 16th Century
  - human-like separate from natural world.
- ancestral knowledge (how to care for new environments they ~~found~~) gone

ex: Wildfires: Indigenous people set controlled + contained fires, then forced to stop. now we have raging wildfires across the U.S.

11/14/20

Food

- 1/4 ghg Due to food
  - Deforestation
- Monocrops + Methane production by live stock create threat bigger
- Moving food buying + support to small/sustainable farms.

Who

34  
10  
20

- 2020 CO<sub>2</sub> emisions by region
  - ① China (10.67 billion tons)
  - ② North America (6.78 billion tons)
  - ③ Europe (4.93 billion tons)
- together 60% of global emisions
- Most emisions coming from richest, most industrialized parts of the world.
- av. global <sup>CO<sub>2</sub></sup> emisions per person was 4.8 tons in 2017
- Africa CO<sub>2</sub> per person: 60 pounds
- US CO<sub>2</sub> per person: 78 pounds

we also have to remember that so many people live there, the population of these places impacts how many emisions they will use

C4 Climate Tipping Points

36+37

- events triggered by climate change
- "a point of no return"

"What we do or don't do could change the fate of the entire system!" 37

38+39

TP1 - Forests

- 79% of 3,000 plants active agent cancer cells are in rain forests
- 137 plant, insect, animal species lost Daily.

That's insane, we are losing so much each day. None of these species will ever come back. Is this per species or per plant, animal or insect?

58+39

- increased air + water pollution due to deforestation
  - increases soil erosion
  - tropical Malaria Breaches

Malaria?

What's that.

Amazon Rainforest

- 20% of earth's oxygen
- 50% of world's tropical rainforest
- 10% of world species

Where is the Amazon?

How big is it?

How much has gotten destroyed?

80,000 Plant species

2.5 million insect species

more fish than the entire Atlantic.

1 in 5 of world birds

- 14,000 fires in Brazil (2017)
- a food bank for a minute is how fast the Amazon is losing forest + life.
- 500 years ago 10 mill. - 200,000 indigenous people living in the Amazon

40+41

- TP2 - temp. increase of 3 degrees Celsius
- more extreme weather, ice sheets melting, alter coast lines
- if WA's melts = sea level rises 11 feet
  - Fiji + Manhattan  $\frac{1}{2}$  would be under water

- TP3 - Ocean acidification + Mass Bleaching
- Chemistry of water changes like CO<sub>2</sub> enters it
- 30% more acidic in the past 200 years
- Fish Dieing = food sources gone = climate collapse.

This all feels so hopeless

We are literally killing ourselves and the planet.

hope

- Science
- The things people are doing
- Better politics
- Books
- People

Focus on justice rather than quick fixes

# CS Averting climate collapse

44  
45

- What were fighting against
  - Stopping climate change so we don't hit T.P.

46+47

- Droughts related to climate change are reducing access to clean water + food.

Food

- 2/3 of world pop. has experienced severe water scarcity (one month dry)
- 45 mill. people face catastrophic food insecurity.
- Face famine without action

48  
49

- Changing weather effects food production

30% of Pop. Don't have access to year around food.

- lots of farms don't make enough money unless they form monocrops.

Palm oil Monocrop connected to Deforestation in Amazon

- Work locally
- cooperatives - work to keep resources local

Weather changes = less food farmed = ↑ cost for consumers.

50+51

Water

- Pipelines run next to or through water ways that give us drinkable water
- Great lakes hold 20% of world's potable water

→ This is a huge problem in so many places. it's why we have so much of a problem

30

- oil companies focus on money
- Bad weather = water contamination

[54+53]

Minni Wicconi

- Protest against Dakota access pipeline
  - Standing rock
- Pipeline being built on indigenous treaty land
- Minni Wicconi = water is life (Lakota)

→ Connection to water + privilege because I have enough water

Climate Mitigation - reduce greenhouse gases

Climate Resilience - "prepares communities for climate change"

[C6] identity + privilege

[54+55]

- your identity will affect the way you experience climate change

Intersectionality - "the way that various combos of these identities will increase your likelihood of benefiting from advantages or disadvantages in your life."

- "different combos of privileged identities can mean life or death in climate change"

[56+57]

"in order to achieve justice for all, collective liberation means that we center the people with intersectional identities in our organizing work to avoid recreating new systems of oppression at the top of the social ladder."

## Notes: Book 11/19/22

- people who ~~have~~ have the ability to escape
- climate disasters can often also make a choice to reduce their environmental impact.
- people with privileges
- those who are impacted by climate change the most are the ones who are most affected by it.
  - like storms
  - idea of power

Power according to Danny Sigmund: "the ability to get what you want, when you want it."

- tuvalu emits  $\frac{1}{3}$  of the emissions australia does, but it's dealing with many climate disasters
  - disappearing underwater
  - relying on imported food for food source
  - ignored by those in power
- power matters to companies trying to make a new pipeline
  - power comes with leverage

- privilege = power = leverage

"Lack of resources makes us more vulnerable to exploitation"

### Mitigation

- reducing ghg. in the atmosphere & weather patterns.

### resiliency

- preparing communities for responses to climate change
- giving local communities power to fight EC

(G&S)

Understanding how issues are interconnected"  
- different identities create vulnerability to the climate crisis

I have a lot of privileges  
When it comes to CC.  
I live in a place that doesn't experience ~~much~~ much weather changes ~~is~~ and other things related to CC.

- What privilege do you have?
- What is your social location?
- how do these intersect with each other?



## C7 Climate Stories

64+68

- Stories are a tool we ~~can use~~ <sup>have</sup> to change the world.

66+67 • Build Bridges  
- All of us come from indigenous people in some way.

68+69  
- different parts of your life + identities impact how you experience CC  
• Different levels of protection against CC

## C8 Crises under the radar

My own Climate Story:

Where do you call home? Why?

relationship with land.

26+27

- environmental groups creating more privilege for white people
  - indigenous people being driven out of National park land.
- environmental movements focusing on reducing waste, electric cars, and ~~renewable~~ renewable energy.
  - create divide.
  - not going for systemic change

E3 Where are greenhouse gases coming from?

- transport, electricity, heat, energy use = 75% of greenhouse gases

27+28

- 1/4 of this comes from stuff we make
- system must change
  - the companies making huge profits off of climate change must stop

32+33

- 1/3 comes from parking, homes, stores, + offices
- switching to more renewable energy won't help the inequalities.
  - shift climate change to the people who make the profits
  - climate change doesn't disappear.

- energy democracy or energy co-op
  - giving the people who are affected the most power to decide what happens
  - taking power away from big companies + to the people.

What I think.



this is what I was writing about. it is a problem that people get so much out of it when others get nothing.

its true that big companies make so much over climate change. they don't even really think of it

i think this is a great idea, but so many people won't be happy with it. it is what we need.