

COFFEE



Steve Stelzer AIA, LEED® AP
Program Director,
Public Works & Engineering, Code Enforcement
Green Building Resource Center



PEOPLE NEED COFFEE TO THRIVE

And coffee needs people and nature to thrive. Discover how the Sustainable Coffee Challenge is changing lives and making your morning cup better in the process.

The coffee we drink depends on the health, prosperity and well-being of 25 million coffee producers, 10 million hectares of coffee farms, and the continued ability of nature to sustain them.

The Sustainable Coffee Challenge is a collaborative effort of companies, governments, NGOs, research institutions and others to transition the coffee sector to be fully sustainable. Challenge partners are urgently working together to increase transparency, align around a common vision for sustainability and collaborate to accelerate progress toward those goals.

Conceived by Conservation International and Starbucks and launched during the 2015 Paris climate meetings with 18 founding partners dedicated to coffee sustainability, the Challenge aims to stimulate greater demand for sustainable coffee. The movement has since grown to more than [100 international partners](#).

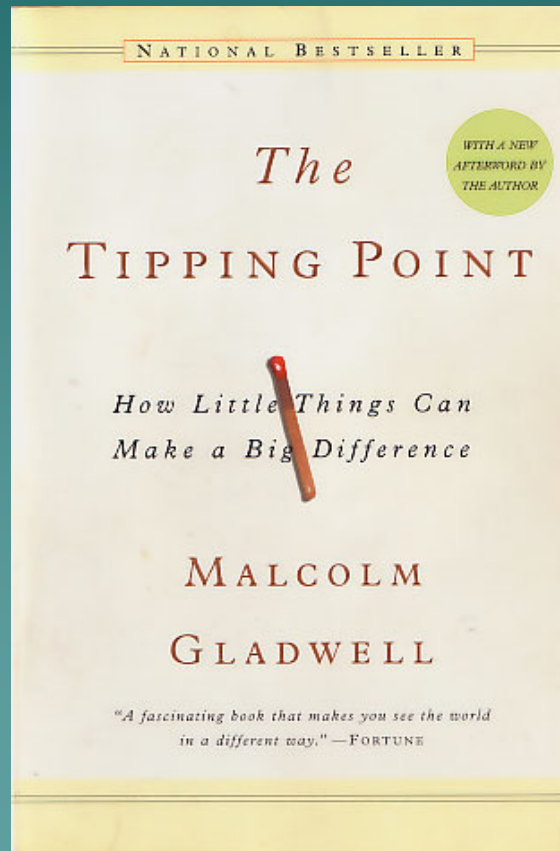
[Learn more about the Sustainable Coffee Challenge](#)

Are we reaching a TIPPING POINT?



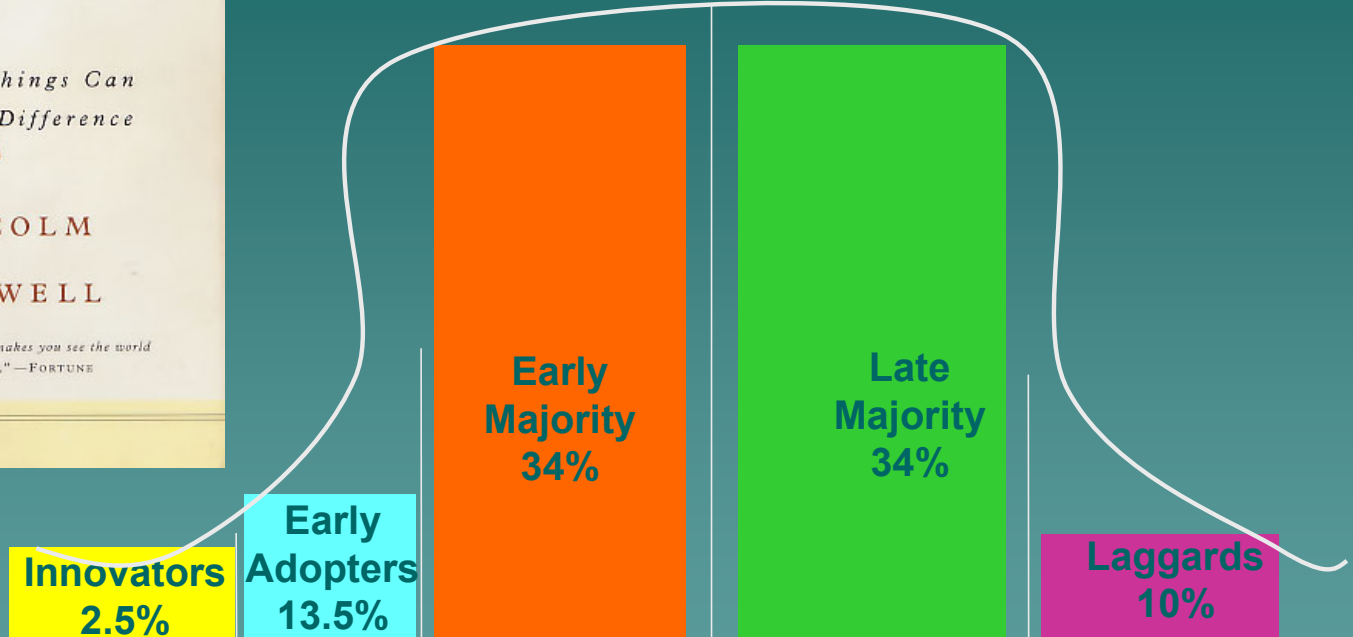
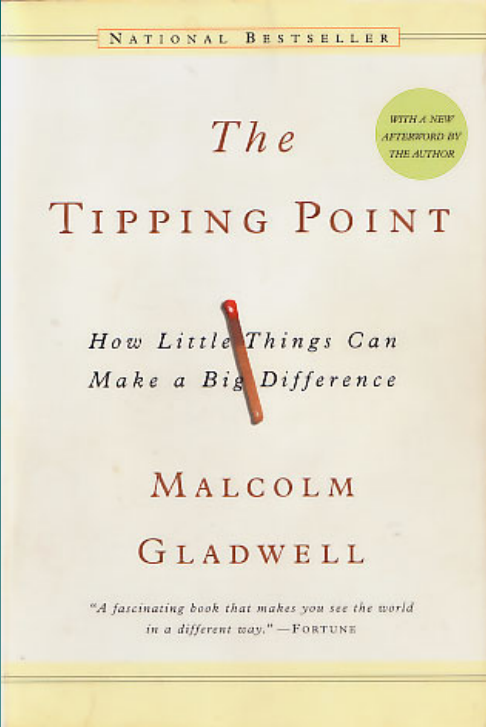
2000

1962

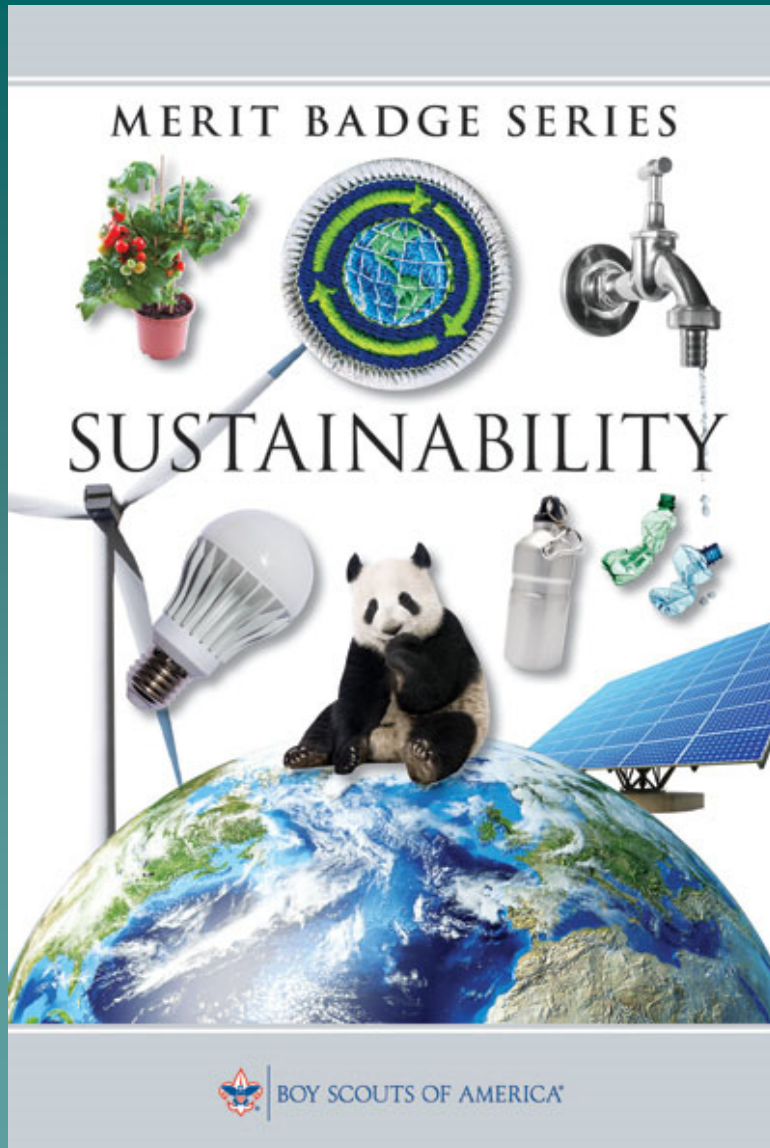


2017

DRAWDOWN
THE MOST COMPREHENSIVE
PLAN EVER PROPOSED TO
REVERSE GLOBAL WARMING
EDITED BY PAUL HAWKEN

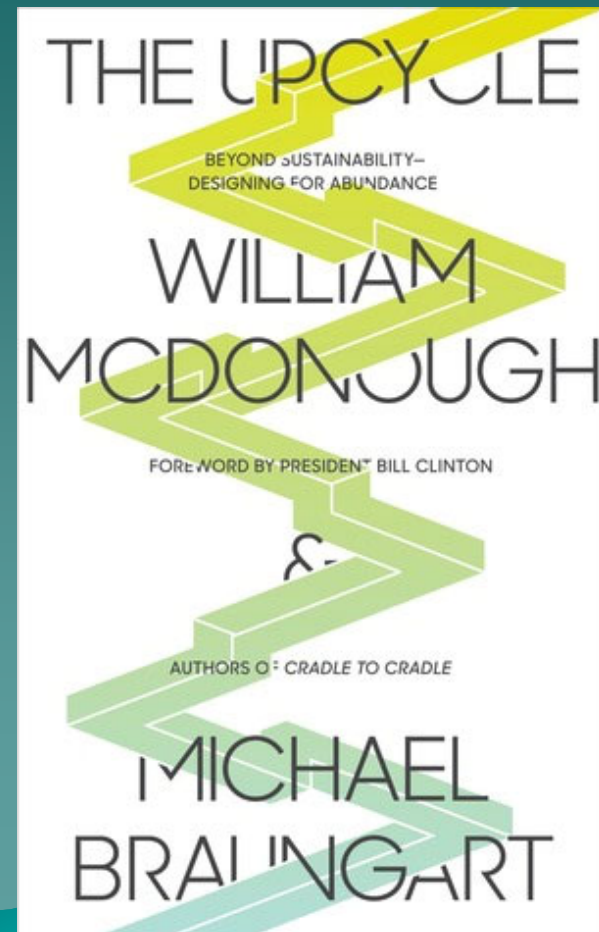


Innovation Adoption Curve



I think so...

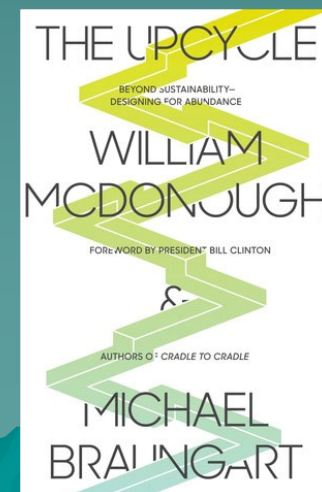
Of all the things humans might do with carbon, just about the worst is burning it – exactly what people have been doing for the past century.





52% of the anthropogenic carbon dioxide generated since 1850 resides in our air (while roughly the other half is absorbed in our oceans, causing acidification).

Is this a problem?





DATA POINTS
[Think It's Hot Now? Just Wait](#)

13.



Lawyer for Melania Trump Threatens Defamation Suits Against News Outlets

14.



FIRST WORDS
How Donald Trump Blew Up the 'Gaffe'

15.



Risky Baking: It's Hard to Make a Perfect Bagel Without Lye

16.



BY DEGREES
America's First Offshore Wind Farm May Power Up a...

SHARE

Sunday Review | DATA POINTS

Think It's Hot Now? Just Wait

By HEIDI CULLEN AUG. 20, 2016

July wasn't just hot — it was the hottest month ever recorded, according to NASA. And this year is likely to be the hottest year on record.

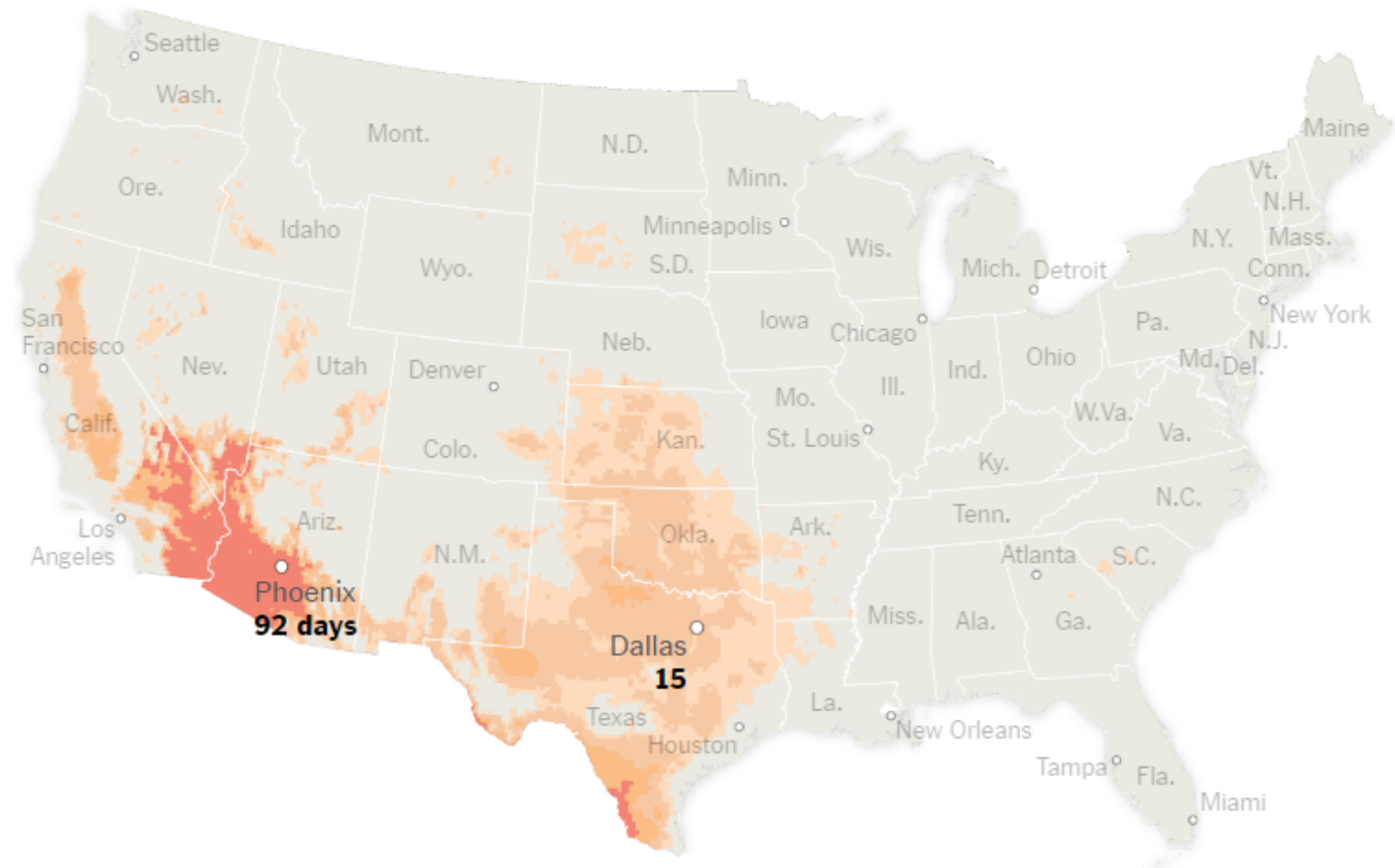
Fourteen of the 15 hottest years have occurred since 2000, as heat waves have become more frequent, more intense and longer lasting. A [study](#) in the journal Nature Climate Change last year found that three of every four daily heat extremes can be tied to global warming.

This map provides a glimpse of our future if nothing is done to slow climate change. By the end of the century, the number of 100-degree days will skyrocket, making working or playing outdoors unbearable, and [sometimes deadly](#). The effects on our health, air quality, food and water supplies will



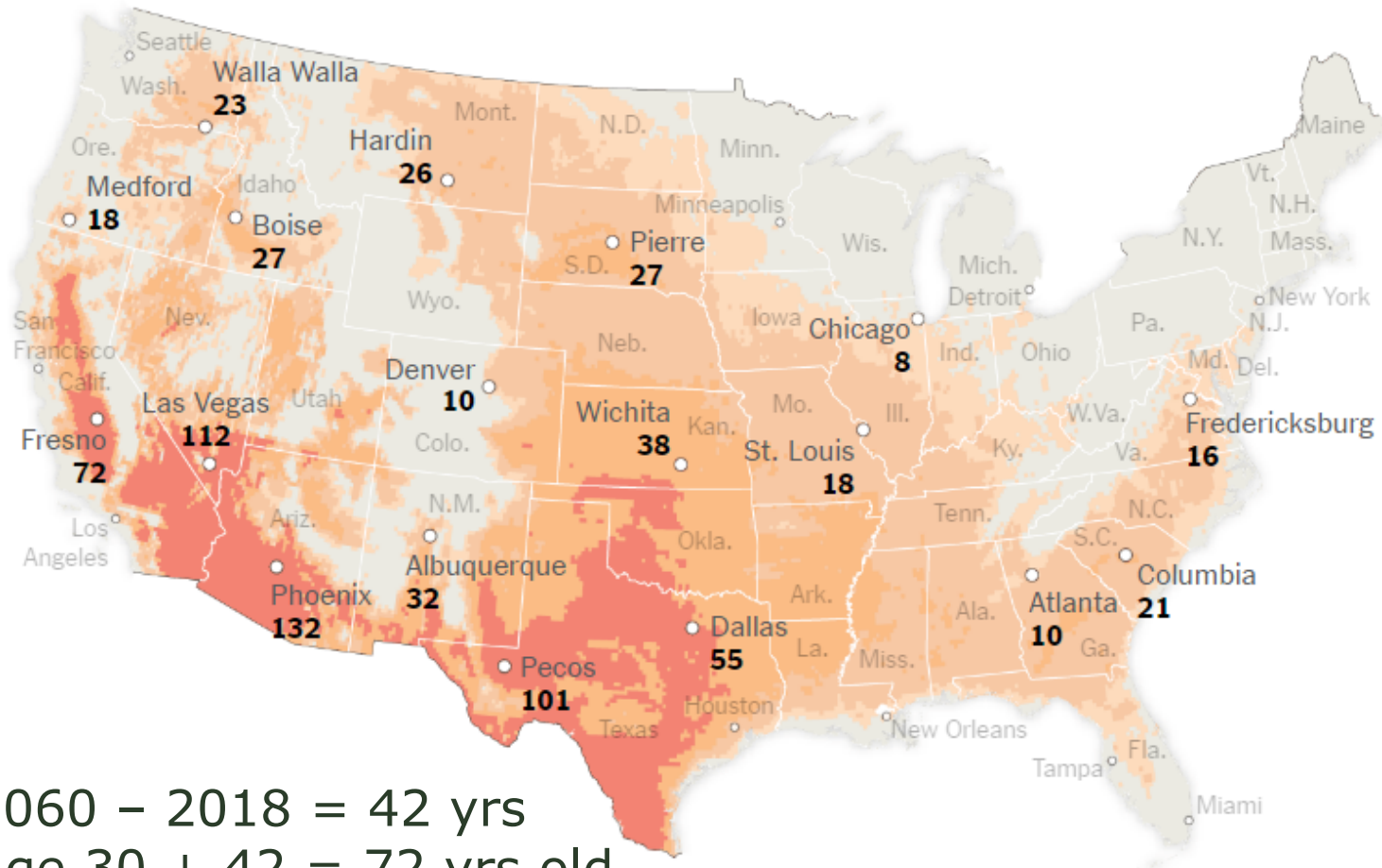
1991-2010 average

Days above 100°F 0-5 5-10 10-25 25-50 50+



By 2060

Days above 100°F 0-5 5-10 10-25 25-50 50+



2060 - 2018 = 42 yrs
Age 30 + 42 = 72 yrs old





Do You Have an Insulation Strategy?

August 4, 2016 By [Carl Weinschenk](#)



Image: [Chicagosprayfoam](#), <http://www.stevebeckerphotography.com>,
<http://www.ChicagolandSprayFoam.com>

Considering its importance, insulation doesn't seem to get as much attention as it deserves.

This appears to be changing, at least to some extent. Recently, there have been changes to insulation requirements in the both the country's biggest state and biggest city — California and New York City. There also is a new standard released by the Green Seal.

Since insulation goes into just about every structure, it is almost needless to say that it is a big business. And it is growing. The Freedonia Group earlier this week published a study that predicts that global demand for insulation will rise 3.7 percent annually to reach 26 billion square meters of R-1 — a measure of insulation's thermal efficiency — in 2020.

In New York City, there will be changes to the Energy Conservation Code that take effect on October



B E F O R E T H E F L O O D

Stream the film for free on National Geographic Channels through Nov. 7

[LEARN MORE >](#)




[WATCH THE TRAILER](#)

Text FLOOD to 52886. Join the Movement!

Message data rates apply. Text STOP to cancel and HELP for help



“Climate change is the single greatest threat to a sustainable future but, at the same time, addressing the climate challenge presents a golden opportunity to promote prosperity, security and a brighter future for all.” 

Courtesy: Newsflare

TIME



AUG 27, 2017

DURING THE FLOOD

TIME



WORLD • ENVIRONMENT

Your Morning Cup of Coffee Is in Danger. Can the Industry Adapt in Time?



Workers weed coffee plants at a Starbucks-owned coffee farm in Costa Rica, where climate change could damage the health of the industry George Steinmetz for TIME

By **JUSTIN WORLAND/ALAJUELA, COSTA RICA** June 21, 2018

Howard Schultz wants to know if I drink coffee. The **Starbucks** boss is sitting on a balcony overlooking the company's leafy farm in the Costa Rican province of Alajuela, where I'm told the coffee—harvested and roasted on-site—is a must-



You May Like

by **Outbrain**

Why the NAD+ Pill Could Change How We Age



<http://time.com/5318245/coffee-industry-climate-change/>

TIME again



coffee+climate change

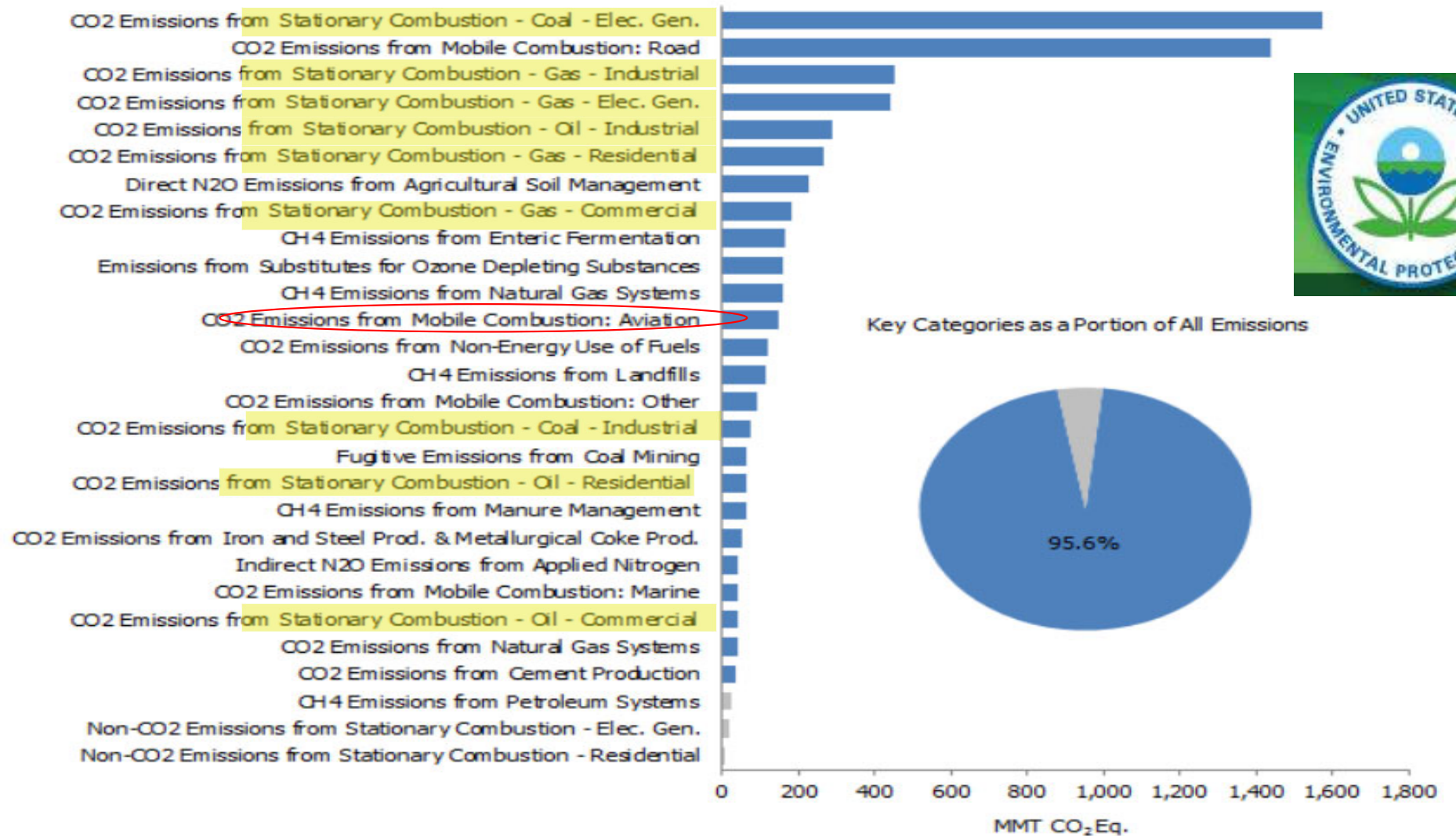


About 208,000 results

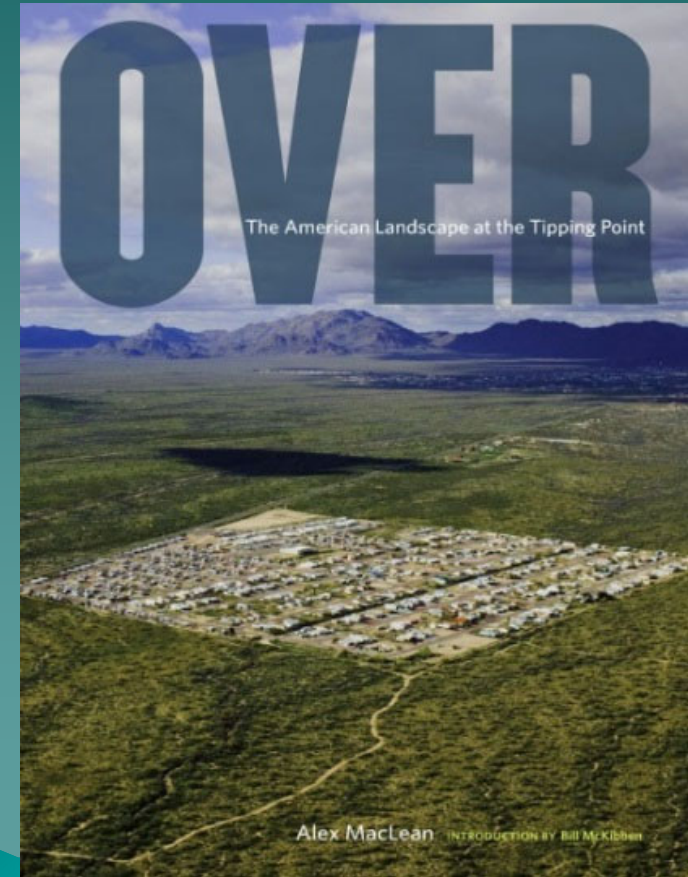
The screenshot shows a YouTube search results page for the query "coffee+climate change". The page features a left-hand navigation menu with options like Home, Trending, Subscriptions, LIBRARY (History, Watch later, Cool Stuff), SUBSCRIPTIONS (Tim Freke, THNKR, Dexter Freebis, CEN Online, Inhabitat, Wallace Stelzer, Vintage Pachinko), MORE FROM YOUTUBE (YouTube Premium, Movies & Shows), Settings, Report history, Help, and Send feedback. The main content area displays "About 208,000 results" and a list of video thumbnails with titles and view counts:

- Climate change could have dramatic impact on coffee** (CBS This Morning, 2.3K views, 1 year ago): A warming planet could make coffee harder to find. For his Climate Diaries series, Mark Phillips traveled to Mount Elgon in ...
- Hanna Neuschwander | Making Progress on Climate Change: Coffee's Potential Impact** (Re:co Symposium, 779 views, 1 year ago): Climate change is a global crisis which is having a profound impact on the coffee plant. This #RecoAtlanta talk from Hanna ...
- Coffee growers combat climate change** (GreenTV, 3.7K views, 6 years ago): This film tells the story behind a ground breaking project in Peru. Reforestation Sierra Piura, the innovative adaptation project in ...
- Could Climate Change Mean The End Of Coffee?** (AJ+, 2.6K views, 3 years ago): We've all heard about climate change, but does it have to threaten the future of coffee for us to wake up? AJ+ went to Four Barrel ...
- Climate Change Threatens Coffee and Chocolate** (Seeker, 13K views, 5 years ago): We know climate change is happening. But what does that mean to the average joe? Trace talks about some of the day to day ...
- How climate change is affecting your coffee** (CBS News, 823 views, 7 months ago): Climate change is having impacts on food production, including on one of the world's most popular beverages. Subscribe to the ...

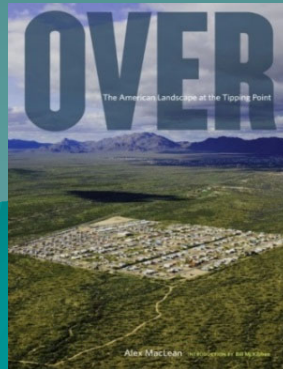
Figure ES-16: 2013 Key Categories



Power is Problematic



“W.A. Parish is a coal-fired facility whose four generators produce nearly 19 million megawatt-hours per year. Encircling the plant’s stockpile of coal is a mile-long train that brings in low-sulfur coal from Wyoming. Each day, the plant consumes 36,000 tons of coal, which amounts to three mile-long trainloads.”



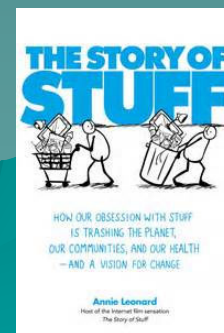


So What?



...burning coal constitutes the largest human-generated contribution to atmospheric carbon dioxide and is a major source of methane.....

”between 1975 & 2001, the annual releases of *toxic metals* from coal plants nearly doubled.... [which] account for over 40% of all air toxins reported to the EPA.”



2010

3 trainloads of coal a day



America's 50 Dirtiest Power Plants



#5:
Sugarland, TX

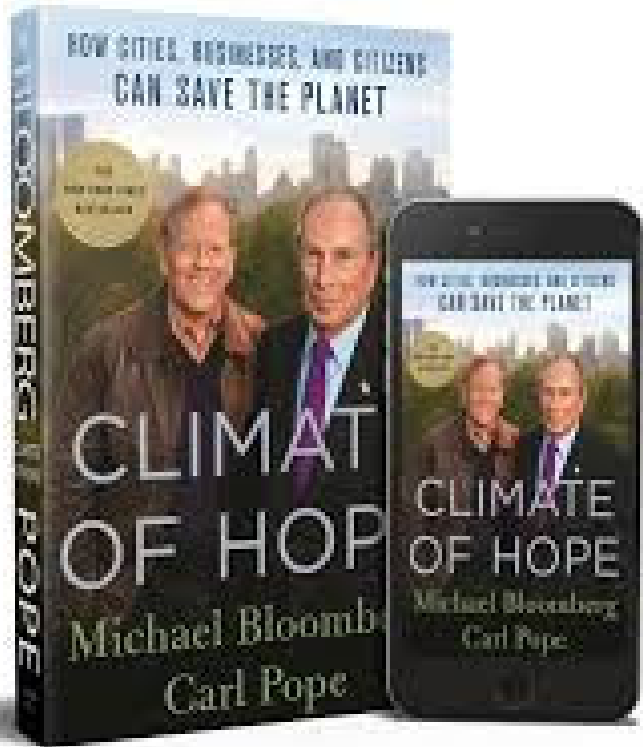




Neil Carman, Clean Air Director



**SIERRA
CLUB**



Neil is involved in a broad range of Texas air quality issues including: reviewing emissions and technical data on industrial sources of air pollution and particularly their impacts on communities of color and low-income neighborhoods; commenting on one-hour ozone nonattainment programs; implementation of the new EPA eight-hour ozone standard; EPA's Title V federal air operating permit program; educational outreach to Sierra Club members on local air quality; evaluating air toxics monitoring around industrial sources; working with citizens to train them how to take air samples near industrial sources; and more.



NRG WA Parish:	2697 MW coal
(Coal = 28% of group)	956 MW gas
Calpine Cedar Bayou:	1495 MW gas
Calpine Deer Park:	1103 MW gas
NRG TH Wharton:	1025 MW gas
Calpine Baytown:	810 MW gas
Calpine Pasadena:	763 MW gas
NRG Greens Bayou:	354 MW gas
NRG Cedar Bayou4:	249 MW gas
NRG Petra Nova:	22 MW carbon capture
(like that makes up for WA Parish....)	



Parish emitted nearly 18X as much SO₂ pollution as ExxonMobil's Baytown oil refinery, one of the largest in the nation.

Parish emitted over 8X as much SO₂ pollution as all 9 refineries combined in the Houston area.

WA Parish coal-fired power plant = 42,719 tons SO₂ emissions - #1 in Houston among 501 plants

Eco Services sulfuric acid plant = 3,838 tons SO₂ - #2 in Houston



Wasted Energy

About 56 percent of all energy in the U.S. economy is wasted. Some energy is always lost when fuels are burned and heat escapes. Inefficient technology and design are also culprits.

Efficiency's role in cutting emissions is a matter of debate. Most scientists agree that both cleaner fuels and greater efficiency are needed. Here is how much energy goes unused, by sector.



ELECTRICITY Most is generated from coal and natural gas; the heat from burning those fuels is largely lost. Then transmission lines leach out electricity, as much as 10 percent of what is generated.

Circles sized according to the amount of energy each sector consumes.



TRANSPORTATION Needed: lighter vehicles with more efficient engines. Plug-in hybrids, using electricity generated from carbon-free sources, could drastically reduce energy loss and emissions.



INDUSTRY Efficiency can be improved by harnessing excess heat to power production.

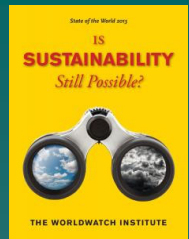


RESIDENTIAL AND COMMERCIAL BUILDINGS Higher efficiency lighting and appliances would decrease energy loss. Reduced demand for heating and cooling from improved insulation and architecture would lower energy use.

Source: Lawrence Livermore National Laboratory

BILL MARSH/THE NEW YORK TIMES

Let's not forget 66% of fuel energy is lost getting the electricity to your outlet....



.....McKinsey also published an analysis and ranking of the most cost-effective strategies for reducing carbon emissions. For example, the report concluded that for a given amount of money, installing building insulation would yield greater net savings than solar photovoltaic panels.

Energy Audits



4. PROVIDE PLENTY OF AIRSPACE
The IRC calls for 1 in. of airspace, but I call for a 2-in.-minimum airspace between the back of the roof sheathing and the top of the insulation. This will ensure sufficient airflow through the roof assembly.

3. VENT THE SOFFIT CONTINUOUSLY
The vent should be placed as far to the outside edge of the soffit as possible. Otherwise, warm air next to the heated siding can rise, enter the vent, melt snow, and cause ice dams. This is especially a concern on cold-climate homes with deep eaves.

1. SEAL THE ATTIC FLOOR COMPLETELY
Make sure the attic floor is absolutely airtight before any bulk insulation is installed. Air leaks in these critical areas are major contributors to energy loss in all climates and cause ice dams in cold climates.

2. BULK UP THE INSULATION ABOVE THE TOP PLATE
Make sure the amount of insulation (typically fiberglass or cellulose) above the top plate is equal to or greater than the R-value of the wall assembly, never less.

5. SLIGHTLY PRESSURIZE THE ATTIC
Building codes suggest balancing the intake and exhaust ventilation. The code, however, is wrong, and I'm working hard to get it changed. More ventilation at the eaves than at the ridge will slightly pressurize the attic. A depressurized attic can suck conditioned air out of the living space, and losing that conditioned air wastes money.
For best results, provide between 50% and 75% of the ventilation space at the eaves; a 60/40 split is a good sweet spot. The code specifies 1 sq. ft. of net free-vent area (NFVA) for every 300 sq. ft. of attic space. (Keep in mind that different vent products have different NFVA ratings.) Here's how to do the math for a 1200-sq.-ft. attic.

STEP 1

Calculate how much NFVA you need.

$$\begin{aligned} &1200 \text{ sq. ft.} \\ &\div 300 \text{ sq. ft.} \\ &= 4 \text{ sq. ft. of NFVA} \end{aligned}$$

STEP 2

Convert that to inches.

$$\begin{aligned} &4 \text{ sq. ft. of NFVA} \\ &\times 144 \text{ (in. per sq. ft.)} \\ &= 576 \text{ sq. in. of NFVA} \end{aligned}$$

STEP 3

Divide it up between the soffit and the ridge.

$$\begin{aligned} &60\% \text{ of } 576 \text{ sq. in.} = \\ &345.6 \text{ sq. in. (soffit vents)} \\ &40\% \text{ of } 576 \text{ sq. in.} = \\ &230.4 \text{ sq. in. (ridge vents)} \end{aligned}$$

STEP 4

Apply it to the particular soffit and ridge vents that you are using.

Soffit vents

$$\begin{aligned} &345.6 \text{ sq. in.} \div 9 \text{ (NFVA-per-ft. rating of vent)} \\ &= 38.4 \text{ lin. ft. of intake, or} \\ &= 19.2 \text{ ft. of intake per side of roof} \end{aligned}$$

Ridge vents

$$\begin{aligned} &230.4 \text{ sq. in.} \div 9 \\ &= 25.6 \text{ lin. ft. of exhaust} \end{aligned}$$

www.finehomebuilding.com

AUGUST/SEPTEMBER 2011 69

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Do you have enough attic insulation?
Are your ducts connected to the unit and NOT leaking?

One of Our Displays



140 degree attic
70 degree inside

R-38 (12") insulation
Eave vent
Ridge vent

Energy Audits – Great Display



Asked of EVERY group I tour through the GBRC: When you go up into your attic, can you see your 6" ceiling joists? Then you don't have enough insulation.....

Energy Audits – Great Display



Half do,
half don't.

IDEA: Bring
back 'Home Ec'
in schools

Energy Audits – Great Display



The Point :
Using less
power plant
energy is a real
solution....

Energy Audits



DIY Home Energy Audit

You can easily conduct a preliminary home energy audit yourself. On a simple walk through use this checklist to identify any problem areas that your home may have. Making energy efficient changes/upgrades can significantly lower energy consumption and your monthly bill. At the end of the audit, there is a list of simple steps that you can do to save even more energy. However, this is *not* the same as an audit done by a professional energy auditor (see page 3). Check off the items once you have finished a task, and then you are one step closer to saving money on energy cost! Make notes and keep for future reference.

Add up all Your Energy Bills for the Past Year

How many kilowatt hour (kWh) did you consume? _____ How many for the highest month? _____
This will be useful benchmarking, and give a better framework of solar panel power generation.

Check for Air Leaks

The potential energy savings from reducing drafts in a home may range from 5 to 30% per year, and the home is generally much more comfortable afterward.

Air Flow: Check to see if air can flow through the places below. Hold a feather or lightweight piece of string in front of the areas below, if it moves - even slightly - there is airflow. Also, look for cobwebs - spiders put their webs where there is air movement.

- | | |
|---|---|
| <input type="checkbox"/> Electrical Outlets | <input type="checkbox"/> Fireplace Dampers - are they closed when not in use? |
| <input type="checkbox"/> Switch Plates | <input type="checkbox"/> Wall - or window - Mounted Air Conditioners |
| <input type="checkbox"/> Window Frames | <input type="checkbox"/> Attic Hatches |
| <input type="checkbox"/> Baseboards | <input type="checkbox"/> Kitchen Cabinets |
| <input type="checkbox"/> Weather Stripping Around Doors | <input type="checkbox"/> Medicine Cabinets |
| <input type="checkbox"/> Duct Disconnects in the Attic | <input type="checkbox"/> Exterior Walls |

Caulking and Weather Stripping: Check to see that it is applied properly, leaving no gaps or cracks, and are in good condition.

On the outside of your house: Inspect all areas where two different building materials meet, looking for cracks and/or gaps, including:

- All exterior corners
- Where siding and chimneys meet
- Areas where the foundation and the bottom of exterior brick or siding meet

Check for holes or cracks: In and around your walls, ceilings, windows, doors, light and plumbing fixtures, switches, and electrical outlets, pipes and wires, foundation seals, and mail slots that can leak air into or out of your home.

Seal return air chases

Anywhere you felt/saw air, cracks, or gaps, use caulking or weather stripping to fill and seal them. If airflow was felt/seen behind electrical outlets and light switch plates, purchase electrical and switch plate insulation pads to place behind the plate.

Download the DIY Home Energy Audit

THE BLOG

The World Is In Trouble: What Are YOU Doing About It?

🕒 08/16/2016 06:17 pm ET | Updated 5 days ago



👍 Like 31



Petra Kuenkel



Author and leading strategic advisor to pioneering international multi-stakeholder initiatives

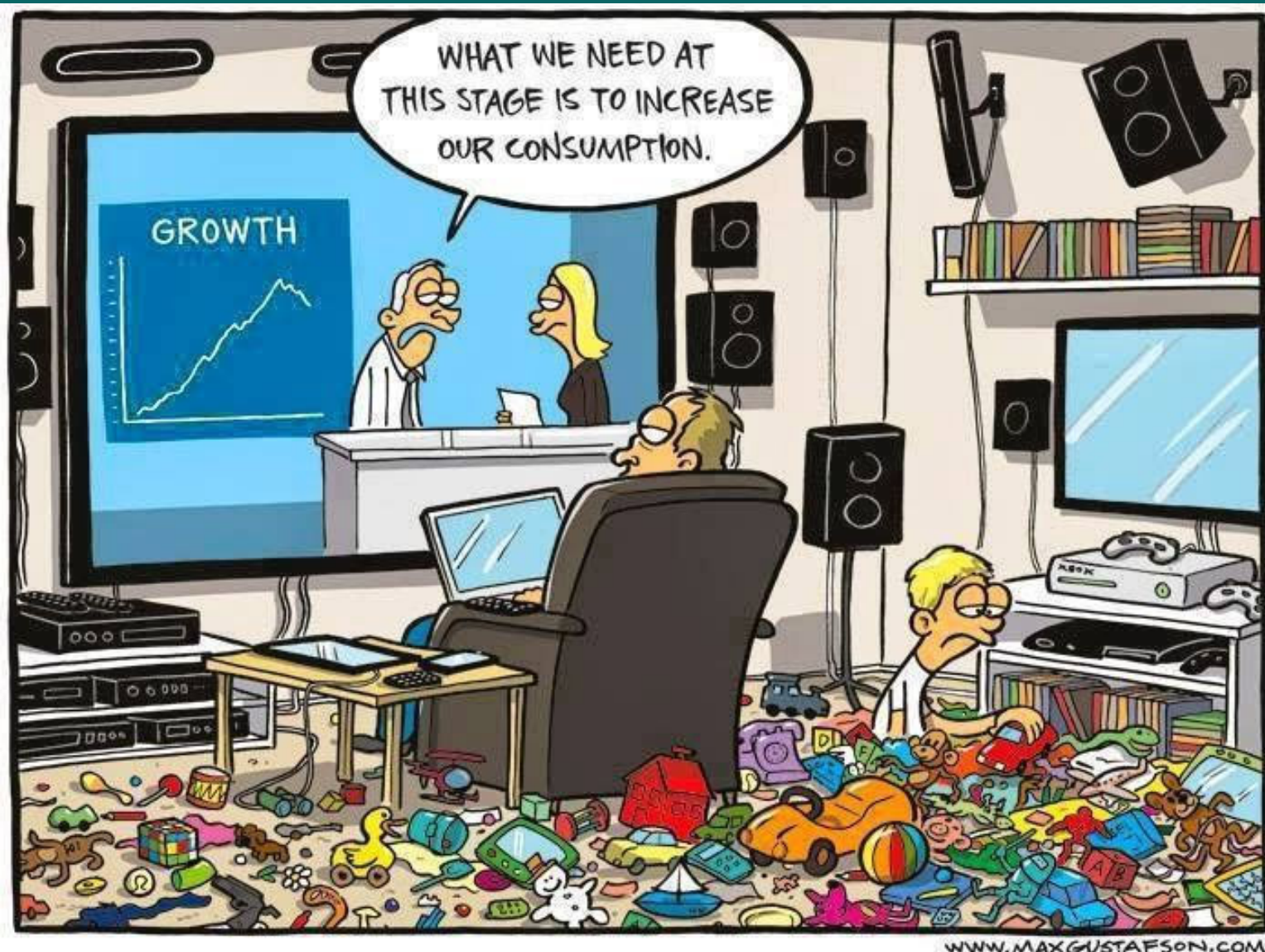
Together, for better or worse

Mahatma Gandhi — 'Be the change that you wish to see in the world.'

As human beings we do not always co-create in the most sustainable or successful way. At times we act in constructive, life-enhancing, and responsible ways. And at other times we are destructive, to ourselves, to others and to our environments.

At the same time, the future should not be something we are afraid of. There is evidence that humankind can learn from the past. But a sustainable future does not just happen. We create it together. Every year. Every month. Every day. Every





**"WE ARE LIVING ON THIS
PLANET AS IF WE HAD
ANOTHER ONE TO GO TO."**



CLIMATE SILENCE.



All rights reserved.

A photograph of the Earth as seen from the lunar surface. The Earth is a bright blue and white sphere in the upper right quadrant of a black sky. The foreground shows the grey, cratered surface of the Moon.

EARTHRISE
THE BEST SCIENCE
PHOTO (EVER)

Losing Earth: The Decade We Almost Stopped Climate Change

By Nathaniel Rich

Photographs and Videos by George Steinmetz

AUG. 1, 2018

Part Two 1983–1989



3

ARTICLES REMAINING

Waiting for tps11000.doubleverify.com...

James Hansen testifying before a Senate committee on June 23, 1988. NASA Goddard Institute of



reserved.



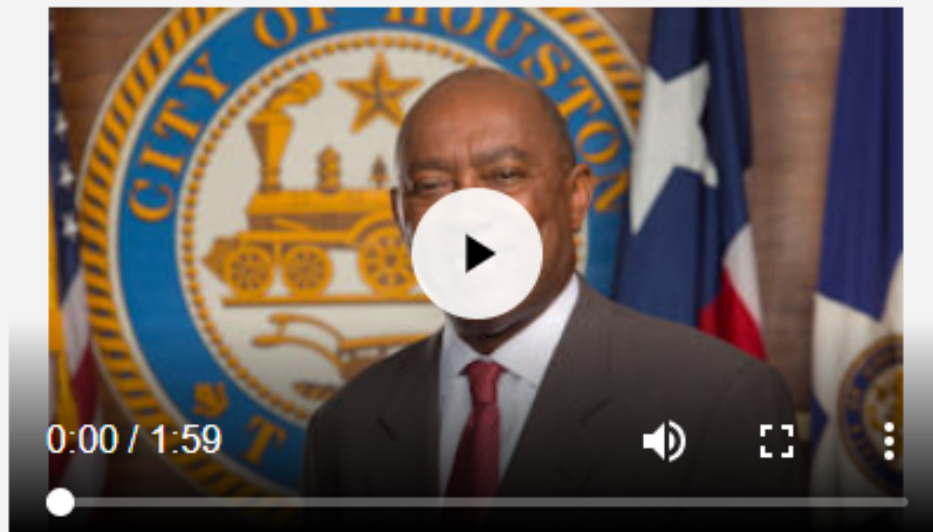
The United States government knew. Roger Revelle began serving as a Kennedy administration adviser in 1961, five years after establishing the Mauna Loa carbon-dioxide program, and every president since has debated the merits of acting on climate policy. Carter had the Charney report, Reagan had “Changing Climate” and Bush had the censored testimony of James Hansen and his own public vow to solve the problem. Congress has been holding hearings for 40 years; the intelligence community has been tracking the crisis even longer.

Everybody knew. In 1958, on prime-time television, “The Bell Science Hour” — one of the most popular educational film series in American history — aired “The Unchained Goddess,” a film about meteorological wonders, produced by Frank Capra, a dozen years removed from “It’s a Wonderful Life,” warning that “man may be unwittingly changing the world’s climate” through the release of carbon dioxide. “A few degrees’ rise in the Earth’s temperature would melt the polar ice caps,” says the film’s kindly host, the bespectacled Dr. Research. “An inland sea would fill a good portion of the Mississippi Valley. Tourists in glass-bottomed boats would be viewing the drowned towers of Miami through 150 feet of tropical water.” Capra’s film was shown in science classes for decades.

Everyone knew — and we all still know. We know that the transformations of our planet, which will come gradually and suddenly, will reconfigure the political world order. We know that if we don’t act to reduce emissions, we risk the collapse of civilization. We also know that, without a gargantuan intervention, whatever happens will be worse for our children, worse yet for their children and even worse still for their children’s children, whose lives, our actions have demonstrated, mean nothing to us.

CLIMATE ACTION AND ADAPTATION PLAN

Click on Mayor's Climate Change Video Below



WHAT IS A CLIMATE ACTION AND ADAPTATION PLAN?

A Climate Action and Adaptation Plan provides evidenced-based measures to reduce greenhouse gas emissions and preventative measures to address the negative outcomes of climate change. The plan will demonstrate how the City will adapt and improve its resilience to climate hazards that impact the city today as well as risks that may increase in the coming years.



City Hall is Not Silent



SOCIAL & POLICY ISSUES APRIL 22, 2016

Americans' Identification as "Environmentalists" Down to 42%

BY JEFFREY M. JONES

AMERICANS WHO IDENTIFY AS ENVIRONMENTALISTS

1991

78%

2016

42%

GALLUP POLL



Environmentalists?

"A landmark contribution to humanity's understanding of itself."
—*The New York Times Book Review*

THE RIGHTEOUS MIND

WHY GOOD PEOPLE ARE DIVIDED BY POLITICS AND RELIGION



JONATHAN HAIDT

★ ★ THE ALL NEW ★ ★

DON'T THINK OF AN ELEPHANT!

NEW YORK TIMES BESTSELLER

KNOW YOUR VALUES AND FRAME THE DEBATE



GEORGE LAKOFF

The essential progressive guide for the issues that define our future: climate, inequality, immigration, health care, and more

PRIUS OR PICKUP?

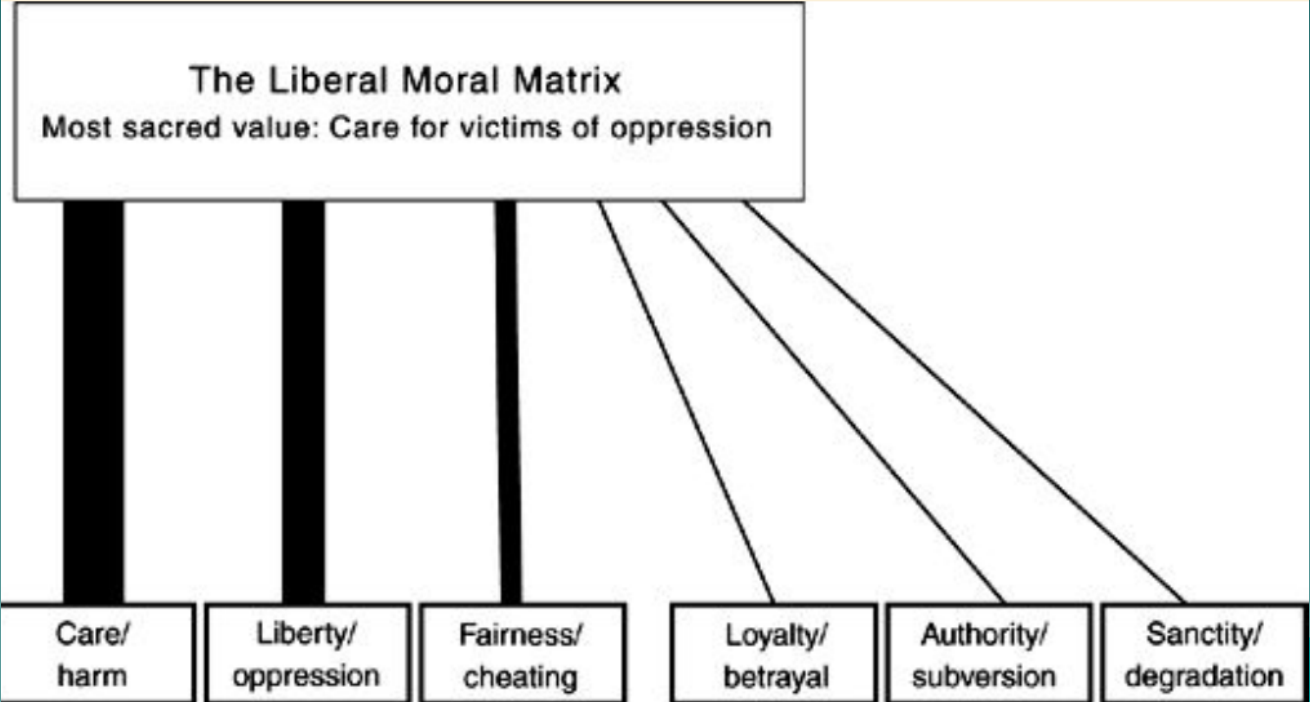
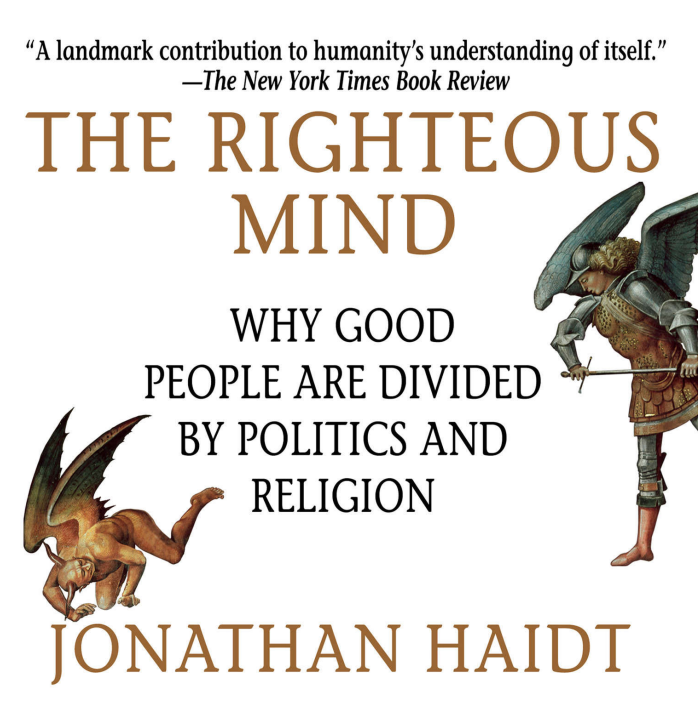
How the Answers to Four Simple Questions Explain America's Great Divide



MARC HETHERINGTON
JONATHAN WEILER



Categories of Liberals





Categories of Libertarians

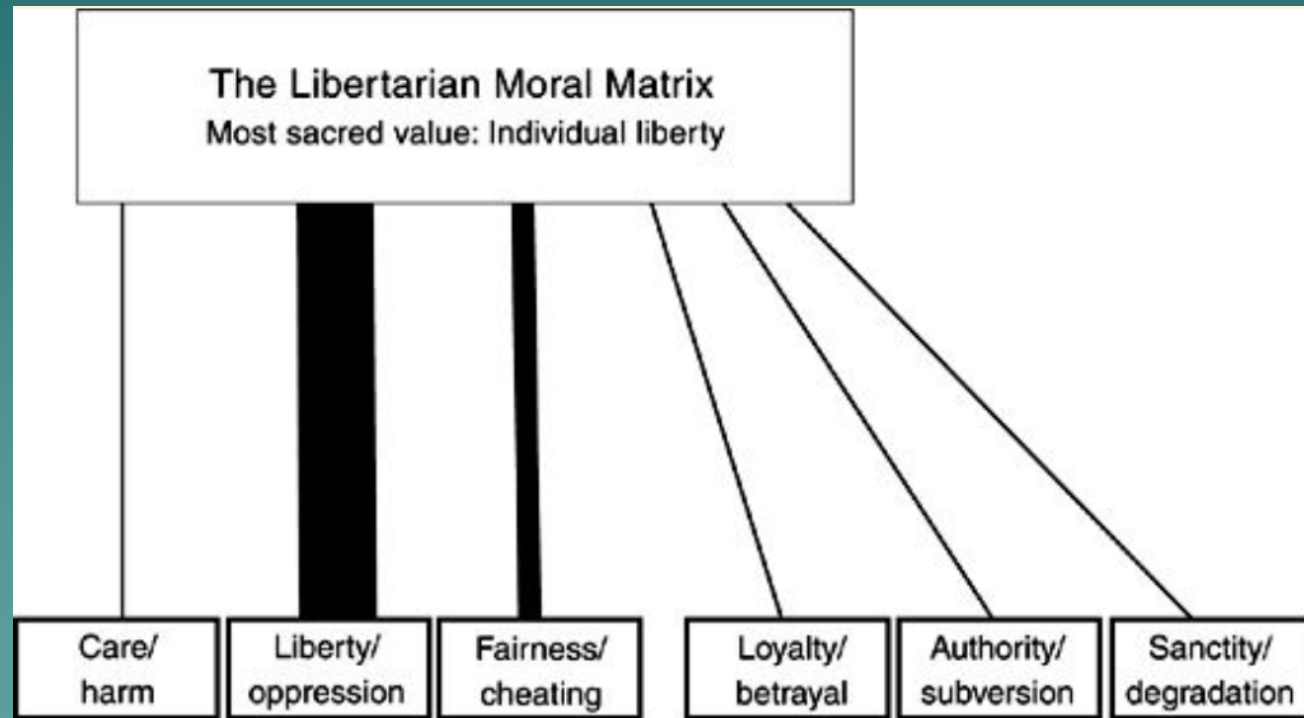
"A landmark contribution to humanity's understanding of itself."
—The New York Times Book Review

THE RIGHTEOUS MIND

WHY GOOD PEOPLE ARE DIVIDED BY POLITICS AND RELIGION

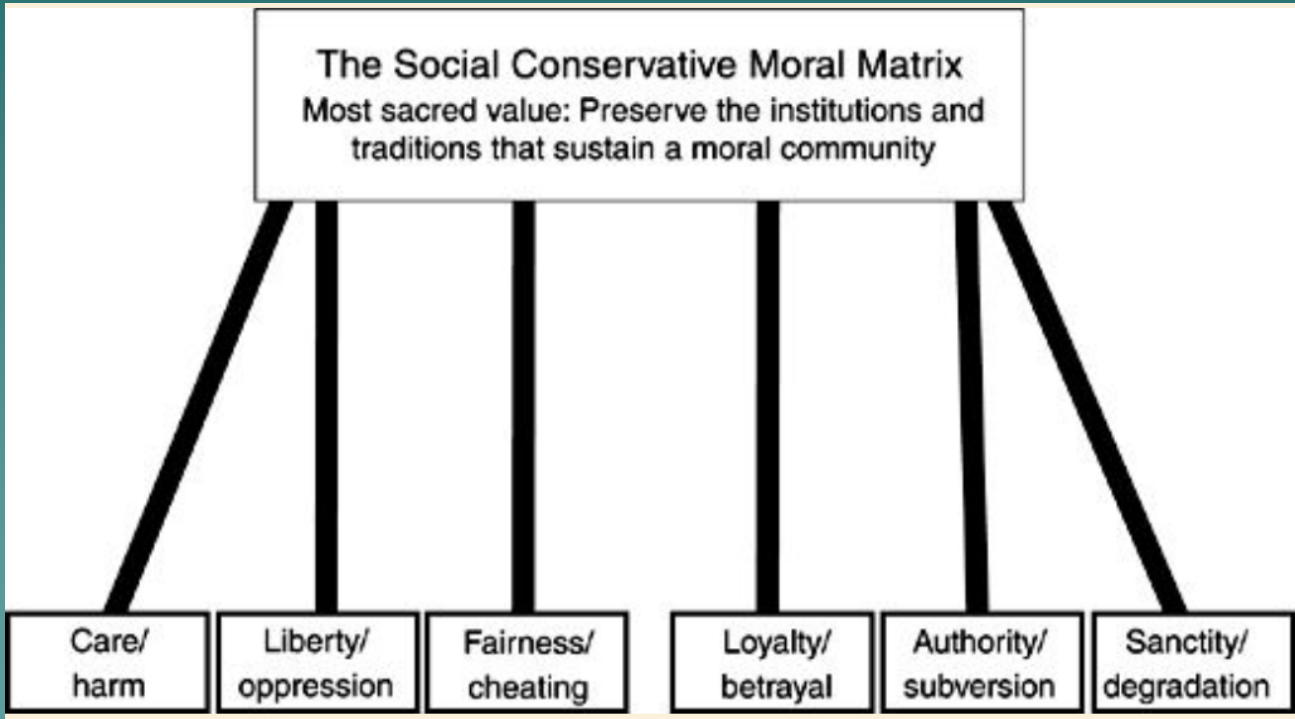
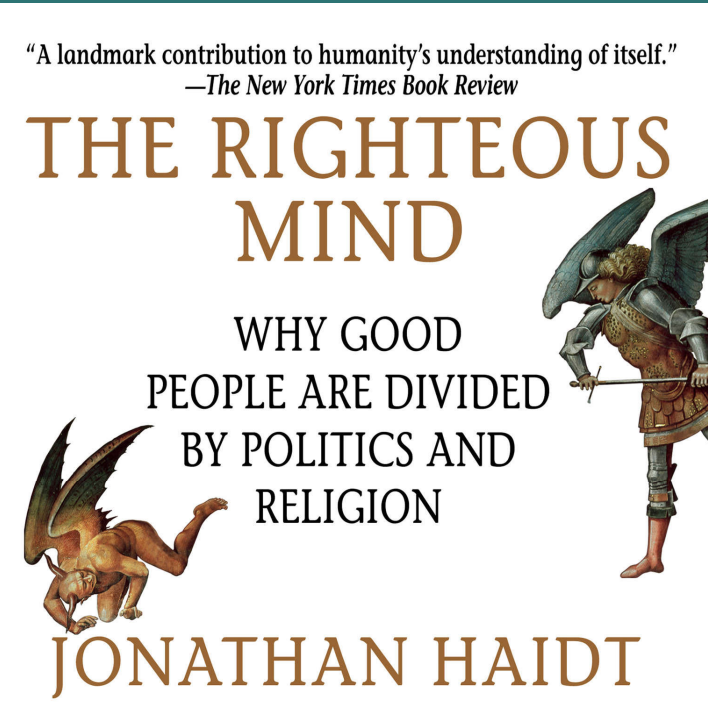


JONATHAN HAIDT





Categories of Conservatives





Categories of Progressives

Socioeconomic
Identity politics
Environmentalists
Civil Liberties
Spiritual
Antiauthoritarians

★ ★ THE ALL NEW ★ ★

**DON'T THINK OF
AN ELEPHANT!**

NEW YORK TIMES BESTSELLER

**KNOW YOUR VALUES
AND FRAME THE DEBATE**



GEORGE LAKOFF

The essential progressive guide for the issues that define our future: climate, inequality, immigration, health care, and more

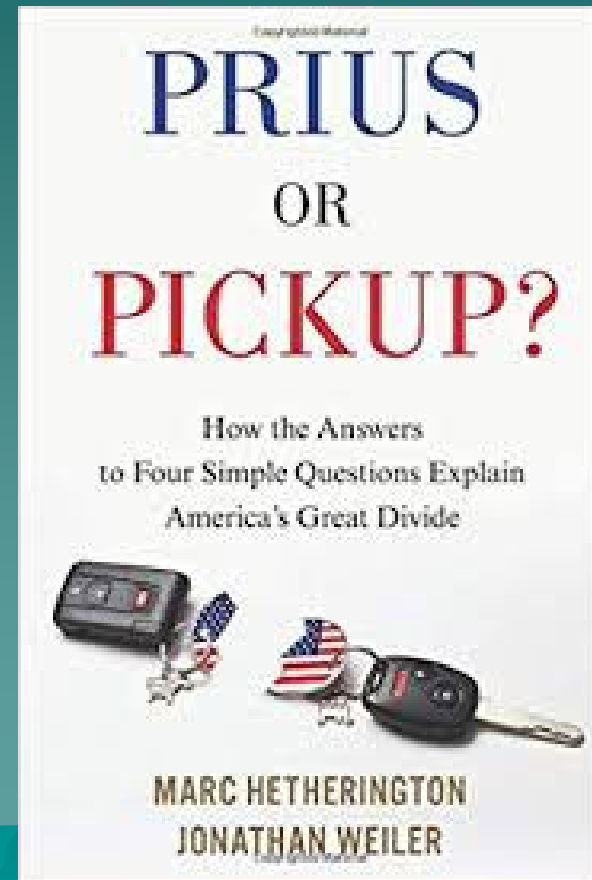


Worldview

16% purely Fixed
26% mostly Fixed
26% Mixed
19% mostly Fluid
13% purely Fluid

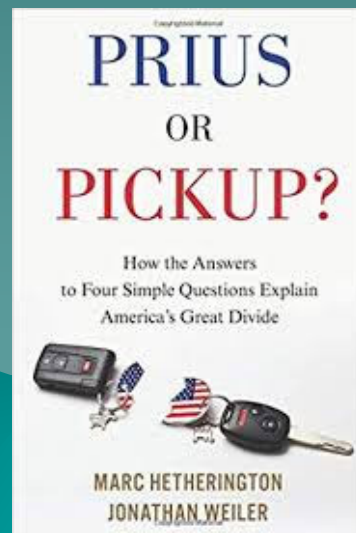
42%

32%





“Coffee is more polarizing than most products, apparently. In 2012 a consumer research firm called Buyology conducted a survey to assess brand loyalty among four thousand Americans.



Starbucks is among the companies that Republicans and Democrats feel most differently about. Democrats love it; Republicans don't. Republicans do like coffee, but when they go out for it, their brand of choice is Dunkin' Donuts, not Starbucks.

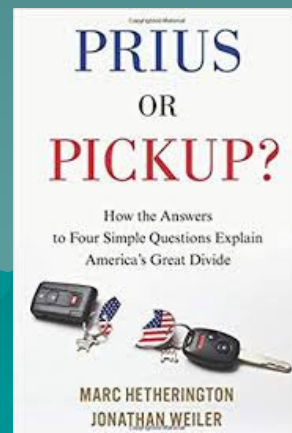




The difference between these two alternatives couldn't be starker. At Starbucks, the drink sizes are Italian words, not English ones. The array of coffee concoctions that one can choose from takes up multiple boards above the barista's preparation station.



There is, by contrast, no “barista” at Dunkin’ Donuts. Until recently, there weren’t an awful lot of choices at Dunkin’, either. Small, medium, or large. Cream, sugar, or both.”





A Brewing Storm: The climate change risks to coffee

A Brewing Storm: The climate change risks to coffee

August 2016

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Creating change takes leadership. We need people to lead: individuals, communities, investors and business leaders. We need people from all walks of life to step forward and join us as leaders of change.

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Acknowledgments

The author, Corey Watts, would like to thank the following for their advice and response to drafts: Moly Harries Olson, Stephen Nankervis, Amy Botta and Mirjam Groten at Fairtrade Australia, New Zealand; Alvin Stone and colleagues at the AFRC Centre of Excellence for Climate System Science, University of New South Wales; John Connor, Kristina Stefanova and Luke Menzies at The Climate Institute. Responsibility for any outstanding issues lies with the author.

Fairtrade Australia & New Zealand commissioned this report by the Climate Institute to better understand the extent to which climate change is impacting coffee production globally. It is hoped that insights gained from this report will lead to greater engagement, from the coffee industry and consumers, with key initiatives that aim to protect this valuable commodity, and the millions of livelihoods it supports around the world, for future generations.



For most coffee farmers, communities, and companies the consequences of unrestrained global warming are hard to imagine. Governments and companies that aim to avoid the economic, social and environmental costs of dangerous global warming, are recognising we need products, business models and economies with at least zero net greenhouse gas emissions.

Many companies and governments have begun to recognise the dangers of global warming—not least because of pressure from consumers and citizens—but their actions do not yet match the scale and urgency of the task.

However, the future for coffee and the world is not yet set. Several coffee companies have responded to customer demands for climate action, and many nations are making substantial efforts. Fairtrade, for example, has moved to ensure the production and supply chains for its Fairtrade Climate Neutral Coffee don't add more heat-trapping greenhouse gases and that steps are taken to build safer, more resilient, more sustainable workplaces. Positive changes are brewing from above and below.

For coffee drinkers, the first step is to learn about the challenges faced by coffee producers and communities, and about what Fairtrade and others are doing to make a difference. Next, most consumers can now choose brands that are carbon neutral, guarantee a fair return to smallholder farmers and their communities, and help them build their capacity to adapt to climate change. Finally, people can demand action from all companies and their governments to ensure all products, business models and economies are carbon neutral or better.

WITH EACH CUP THEY DRINK, COFFEE LOVERS HAVE THE POWER TO HELP SMALLHOLDER FARMERS AND OTHERS WEATHER WHAT LIES AHEAD.





How I Cured My Caffeine Addiction (and you can, too!)

□ Lisa Beres □ January 8, 2019





Of course – Abstinence.
That will certainly impress people.



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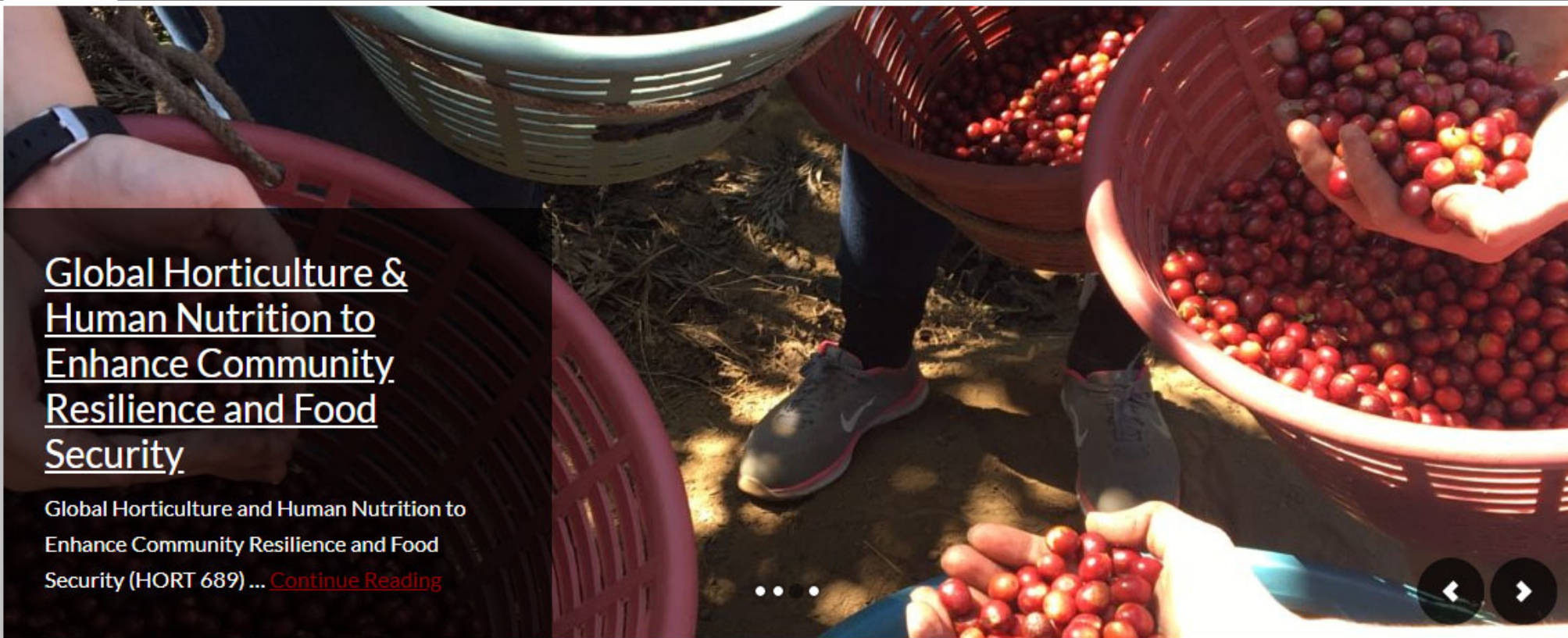
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Global Horticulture & Human Nutrition to Enhance Community Resilience and Food Security

Global Horticulture and Human Nutrition to Enhance Community Resilience and Food Security (HORT 689) ... [Continue Reading](#)

The world's most popular coffee species are going extinct. And scientists say we are to blame

By Lauren Kent, CNN

🕒 Updated 2:07 PM ET, Wed January 16, 2019



Photos: Coffee's health history

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SORT BY Position

FLAVOR PROFILE

REGION

ELEVATION

MORE Coffee Playground 🕒

Intelligentsia is the first to adopt Direct Trade practices in the industry. We understand that what happens on the farm directly affects the quality of our coffees, which is why we've spent the last 15 years and counting cultivating relationships with growers who share our exact standards in quality. We don't just buy exceptional coffee from award-



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Pine Mountain Java-Log Recycled Coffee Grounds Firelogs, 4 Hour Burn Time, 4 Logs (4152501471) Long Burning Firelog for Campfire, Fireplace, Fire Pit, Indoor & Outdoor Use

Pine Mountain

★★★★☆ 151 reviews

Price: \$24.99 ✓prime

Package Quantity: 1

Usually ships within 1 to 2 months.

Get it as soon as Wednesday, Feb. 13 - Monday, March 4 if you choose **Standard Shipping** at checkout.

Ships from and sold by Amazon.com **exclusively for Prime members**. Gift-wrap available.

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This item is reserved for Prime members.

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Pine Mountain® Java-Log® 4-Hour Firelogs

Inspired by nature, with a commitment to sustainability, Pine Mountain Java-Log is the only firelog made from recycled coffee grounds. [Named TIME® invention of the year in 2003](#), the Java-Log firelog burns bright, for a brilliant, aromatic fire the whole family can enjoy.

- Burns cleaner than ordinary cordwood: emits up to 78% less carbon monoxide and up to 66% less creosote than cordwood fires*
- 12 million pounds of coffee grounds recycled each year
- Burns up to 4 hours



How to Make a Coffee Fire Log

By foxtrickle in Outside > Fire  146,351  130  75  Featured

 CC BY-NC-SA



In this instructable, I'll show you the basic recipe for making a Coffee Fire Log. The recipe could still use some tweaking, but it's a good start and a fun and easy project.



1.
See APR D



2019
HIGH



What Is Coffee's Carbon Footprint?

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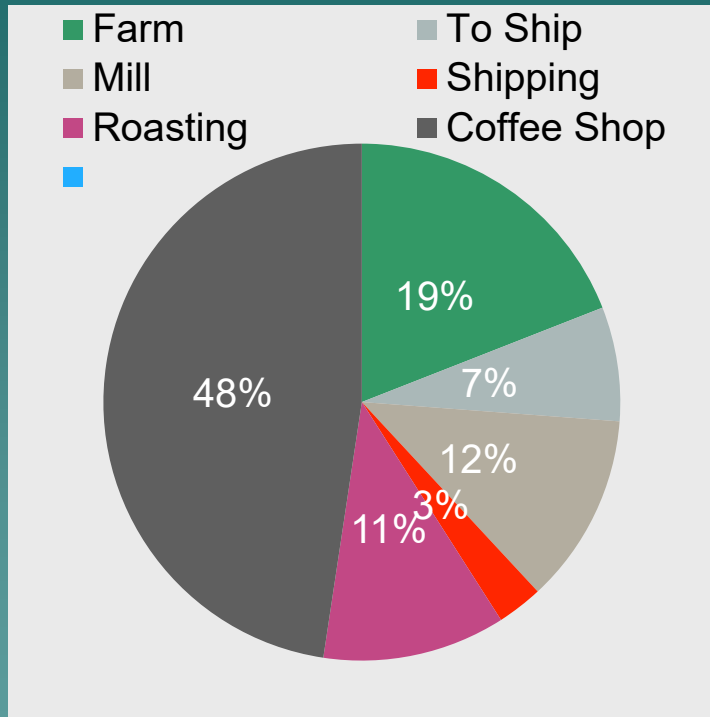


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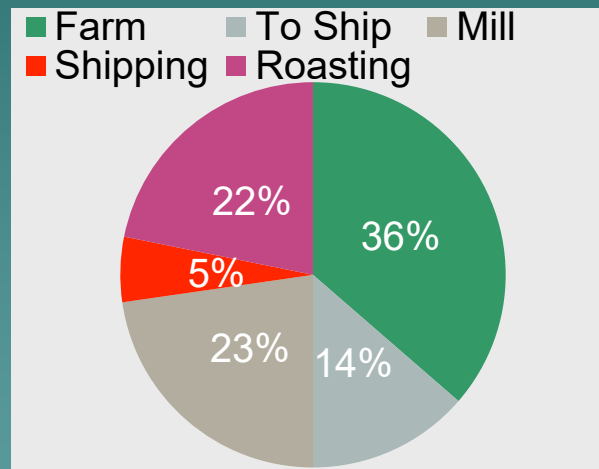


Coffee Shop Coffee: 10.5 lbs CO2/ lb of Coffee



0.263 lbs CO2/ cup*

Home Coffee: 5.5 lbs CO2/ lb of Coffee



0.137 lbs CO2/ cup*

Gasoline
20 lbs CO2/ gal
1.25 lbs CO2/ cup

* 40 cups/lb

TED^x Victoria

x = independently organized TED event

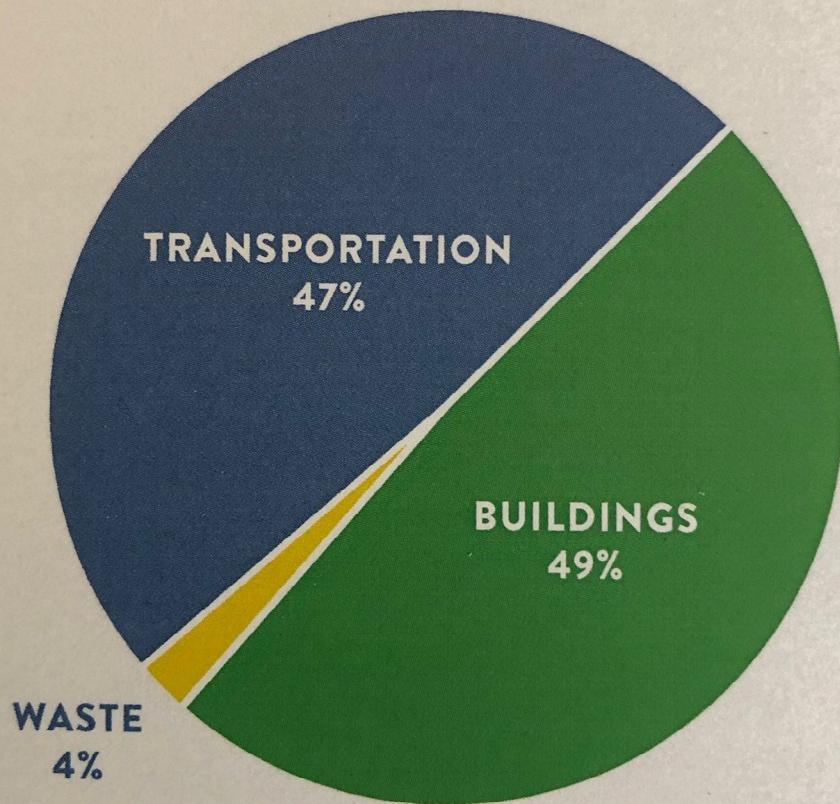


Jim Townley

The Future of Coffee: Craft, Technology and Sustainability



GREENHOUSE GAS EMISSIONS SOURCES HOUSTON 2014



Buildings matter



Take a step to do your part.

Influence friends.

Now, what can you do at work?

Can you influence government?

Can you and 25 friends email?

We're close to the Tipping Point.



Choose:

- Lead
- Follow
- Get out of the way (third for a reason)

Questions?



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GBRC Rain Barrel & Compost Bin
Truckload Sale
05/12/2018 - 10:00 AM - NOON

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Welcome



The City of Houston's Green Building Resource Center, a project of the Department of Public Works and Engineering, offers economical, sustainable building solutions for the public.

Over 50 educational displays, a library of information, and samples of recycled materials provide strategies for green building and in-home energy conservation. Visit the showroom to learn about the impact of recycling, green building materials, solar panel installation, low-impact development techniques for stormwater runoff, energy-efficient windows and lighting strategies, heating and cooling technologies, and water conservation methods.

The Green Building Resource Center is located on the first floor of the Houston Permitting Center, which was constructed to green building standards to reach LEED for New Construction to the Gold level. The building embodies innovative ideas for energy conservation, featuring a raised floor system that provides future flexibility, water efficient plumbing fixtures, energy efficient light fixtures and AC equipment, recycled content acoustical insulation, and recycled artwork. In addition, the HPC boasts the following features:



- A vegetated roof, watered with harvested rainwater and condensate from the air-conditioning system
- A bioswale alternative to a traditional storm sewer, demonstrating permeable pavement, vegetated bio-retention, and turf-covered biofiltration
- A rooftop array of 387 solar panels

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