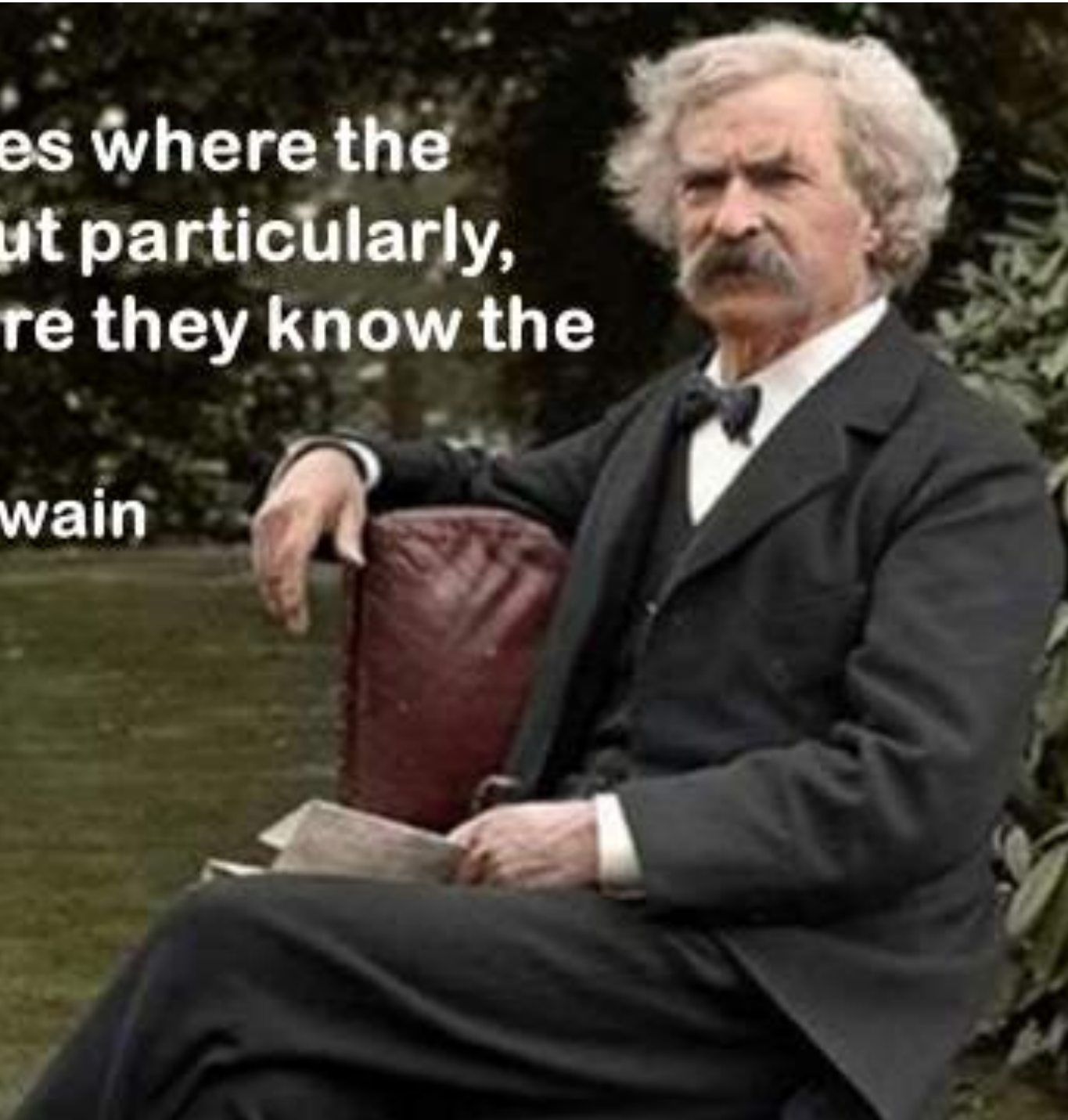


Don't tell fish stories where the
people know you; but particularly,
don't tell them where they know the
fish.

Mark Twain



HUGE FISH

MAGAZINE



Dam Those Salmon
Who Needs Em' Anyways?

Brown Trout Renamed
Salmo trumpa

CATCH AND RELEASE
DOES IT REALLY MATTER?

A River Runs Through It: 2
Staring Donald Trump

Trump Fly Fishing Resorts
Coming to A River Near You





Poking a Dead Fish.

Reflections on Native Trout Recovery

Lorne Fitch, P. Biol.

Technical issues
Political population
e

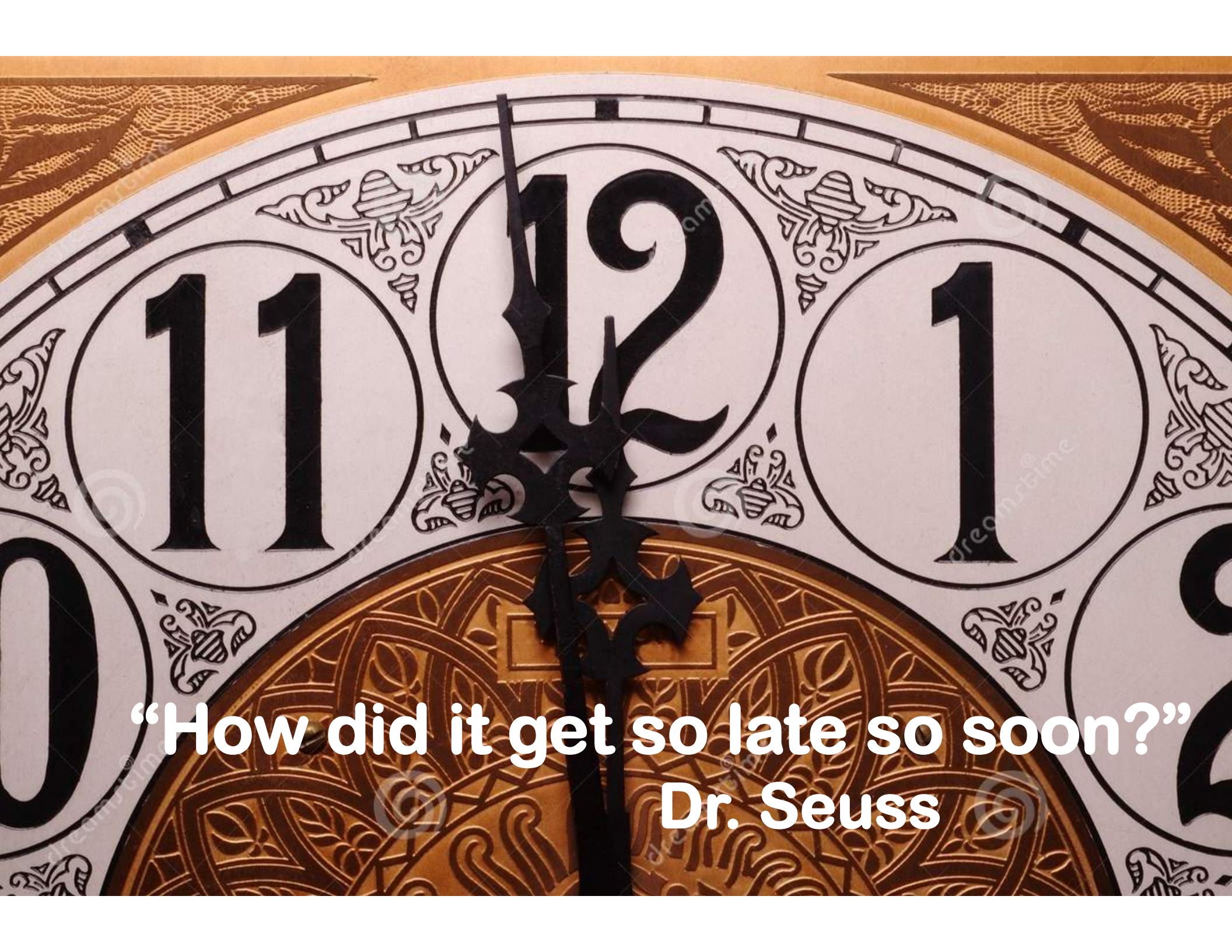
Political will
Budgets
me
gislation/
olicy
erspective
imate change

Native Trout



- *Angling morta**
- *Land use foot**
- *Cumulative ef**

- *Trust with an**
- *Commitment**
all land/resou
managers
- *Adherence by**
industry
- *Trout as sym**



**“How did it get so late so soon?”
Dr. Seuss**

Scurvy



Vasco da Gama

**James Lind, British
surgeon**





Scurvy

Vasco de Gama

**James Lind, British
surgeon**

**Adoption by
British navy**

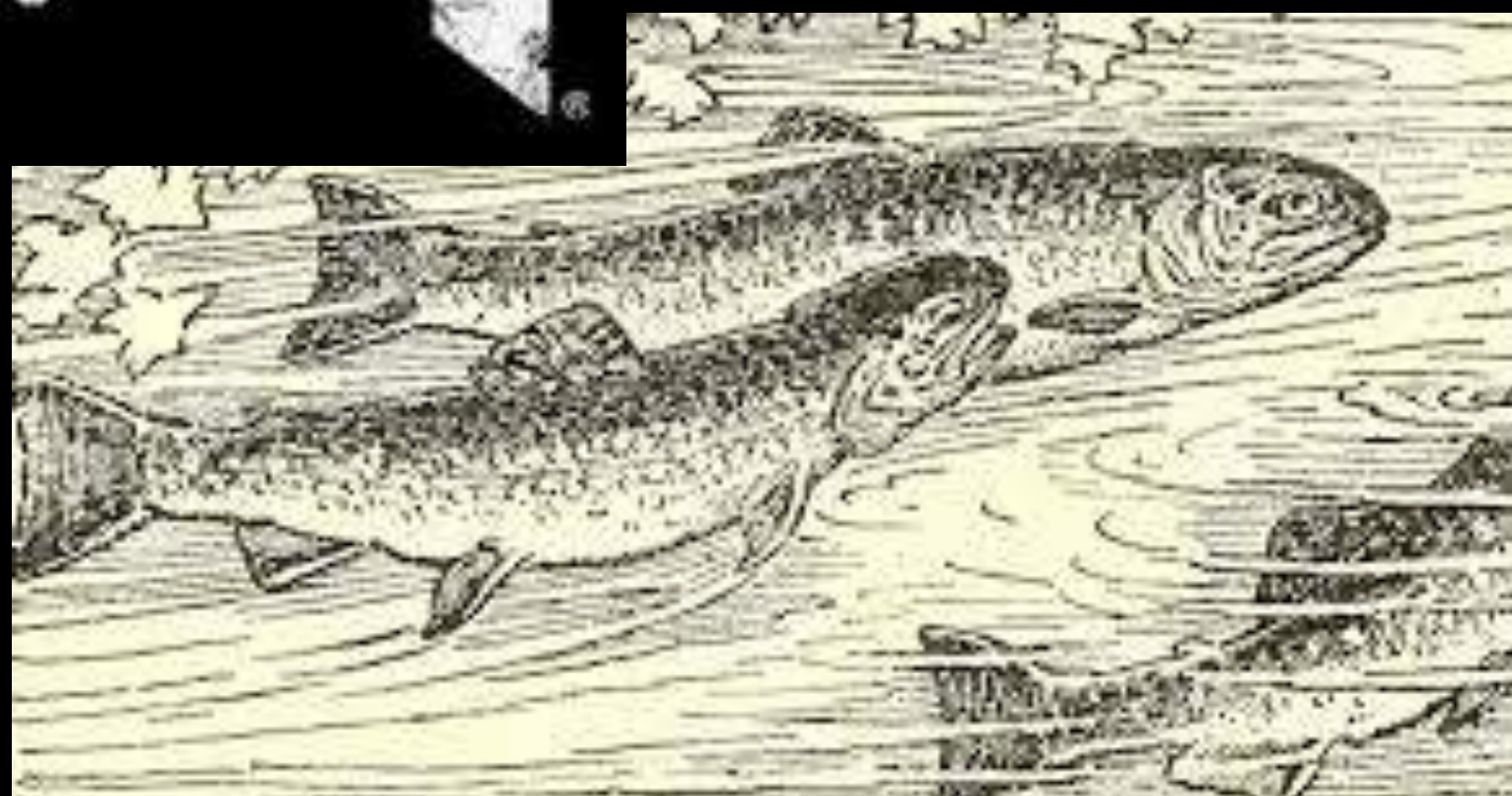
Elapsed time- 302 years



A photograph of a light blue car parked on a street. A large, thick plume of white smoke is billowing out from the front of the vehicle, partially obscuring the hood and windshield. A person wearing a dark jacket and blue jeans is standing to the left of the car, looking towards the smoke. The background shows some greenery and a building.

**you think time will change the outcome,
don't wait too long.**

DOOM



The Reality of a Shrinking Pie



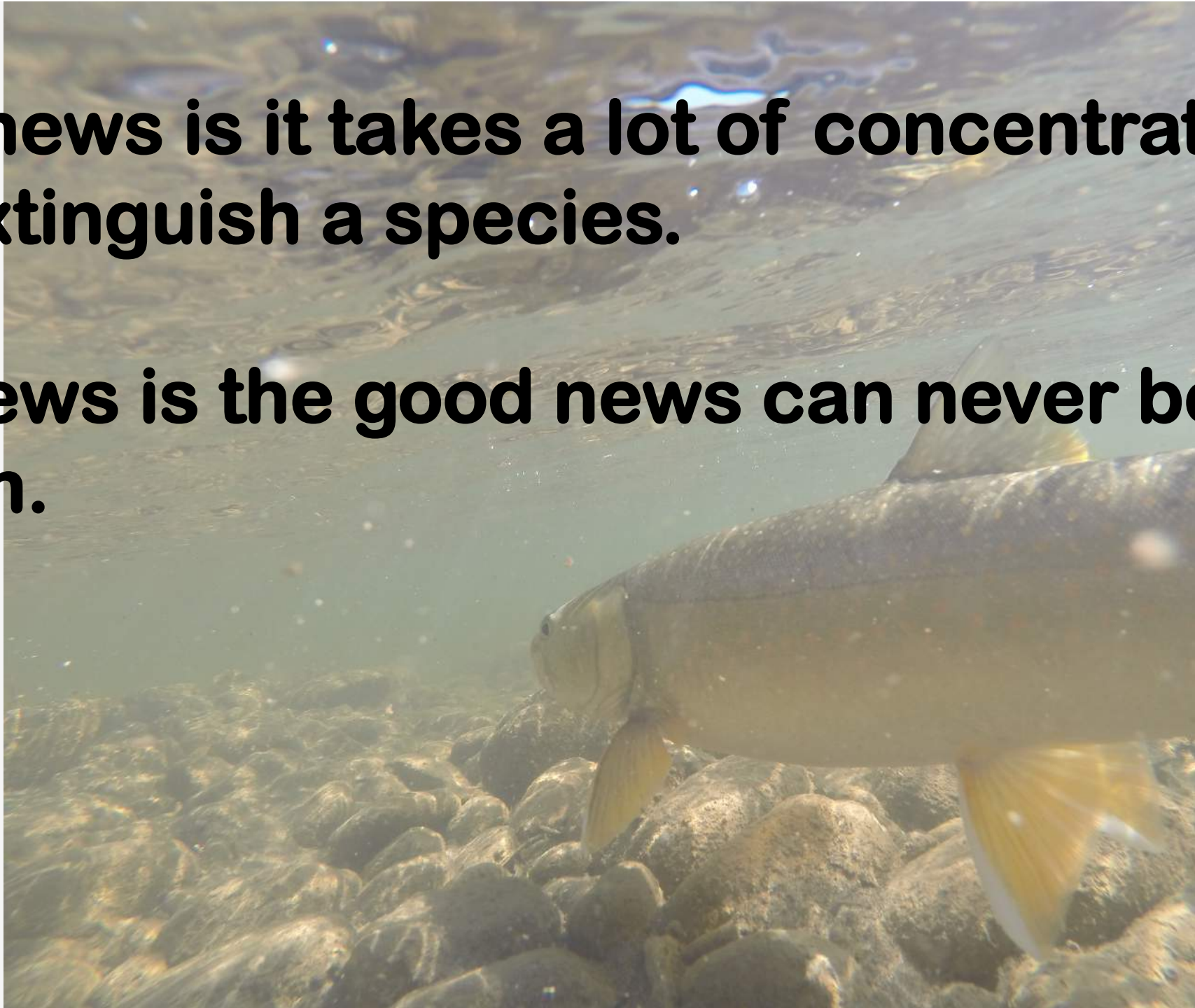
Conservation

Development



The good news is it takes a lot of concentration and effort to extinguish a species.

The bad news is the good news can never be counted on.



**Research enables us to write a
comprehensive obituary for a
species**



WHY IS HEALING SUCH HARD WORK,



WHEN
GETTING
SICK
TAKES
SO
LITTLE
EFFORT

Asleigh Brilliant
SAVA BARBARA



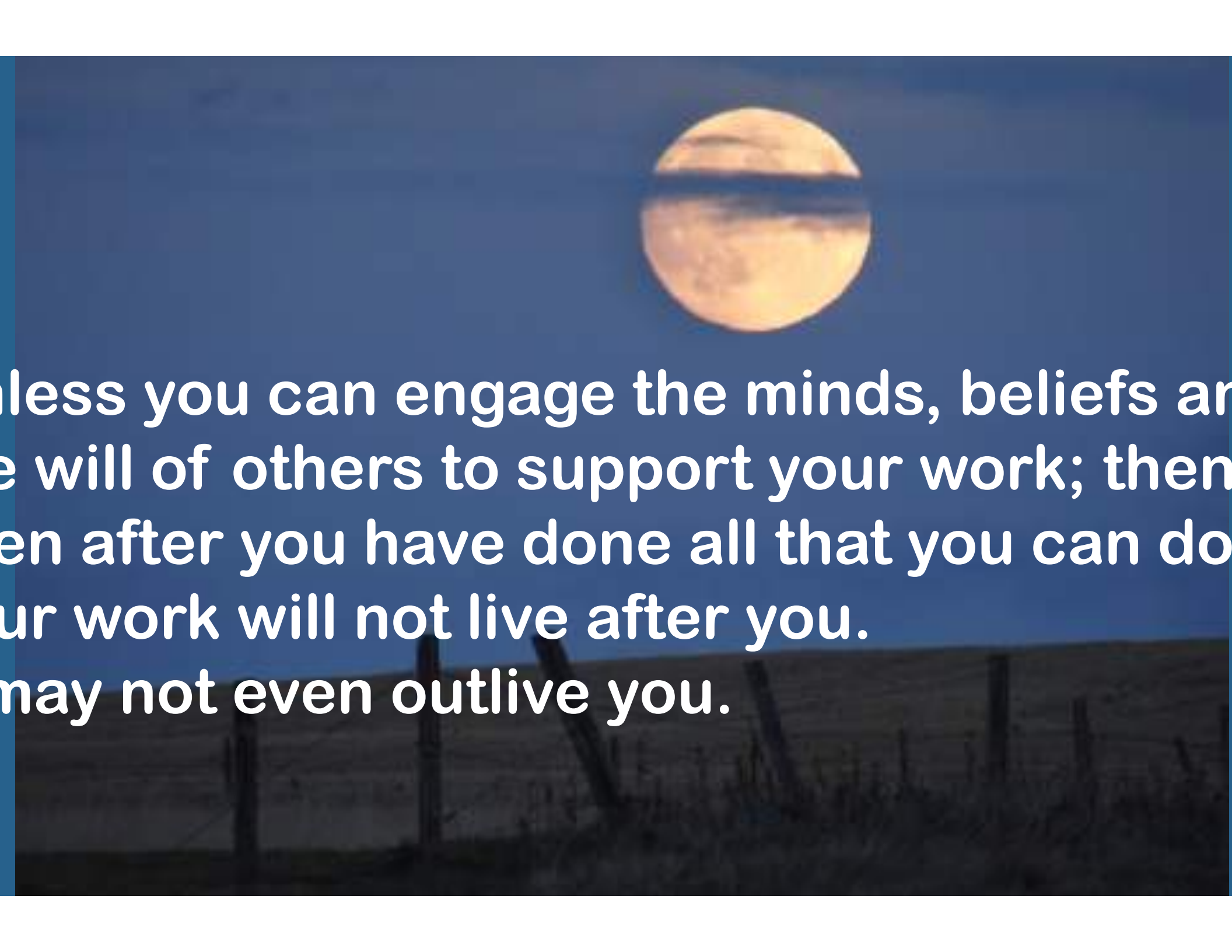
Glenbow Archives NC-

The Daily

ay, August 30, 2018

nglers Riot

isfail: Hundreds of government offices.
lers, carrying fishing demanding access to
s and signs held noisy stream to fish, anytime.
onstrations at



Unless you can engage the minds, beliefs and
the will of others to support your work; then
even after you have done all that you can do
your work will not live after you.
You may not even outlive you.



are as easy to count as trees, except they
sible and they move.

**no silt has escaped
om the roadway into
e creek...”**

berta Forest Service



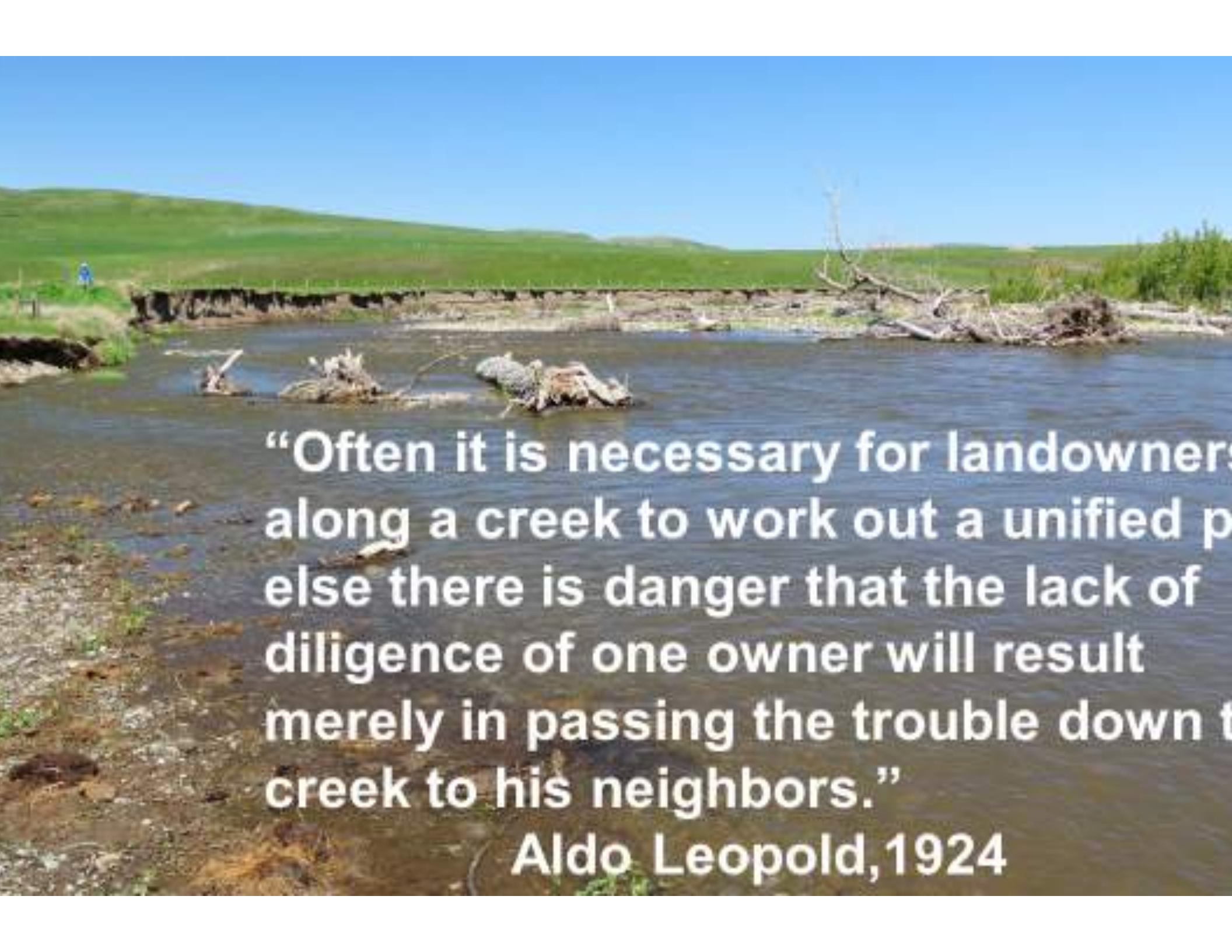
Industry (Spray Lakes Sawmills) Response to sediment issue



because you don't see it, won't see it, can't see
sn't mean it's not there.







“Often it is necessary for landowners
along a creek to work out a unified plan,
else there is danger that the lack of
diligence of one owner will result
merely in passing the trouble down the
creek to his neighbors.”

Aldo Leopold, 1924



LOG
CAUTION
TRUCKS

Climate Change and Native Trout

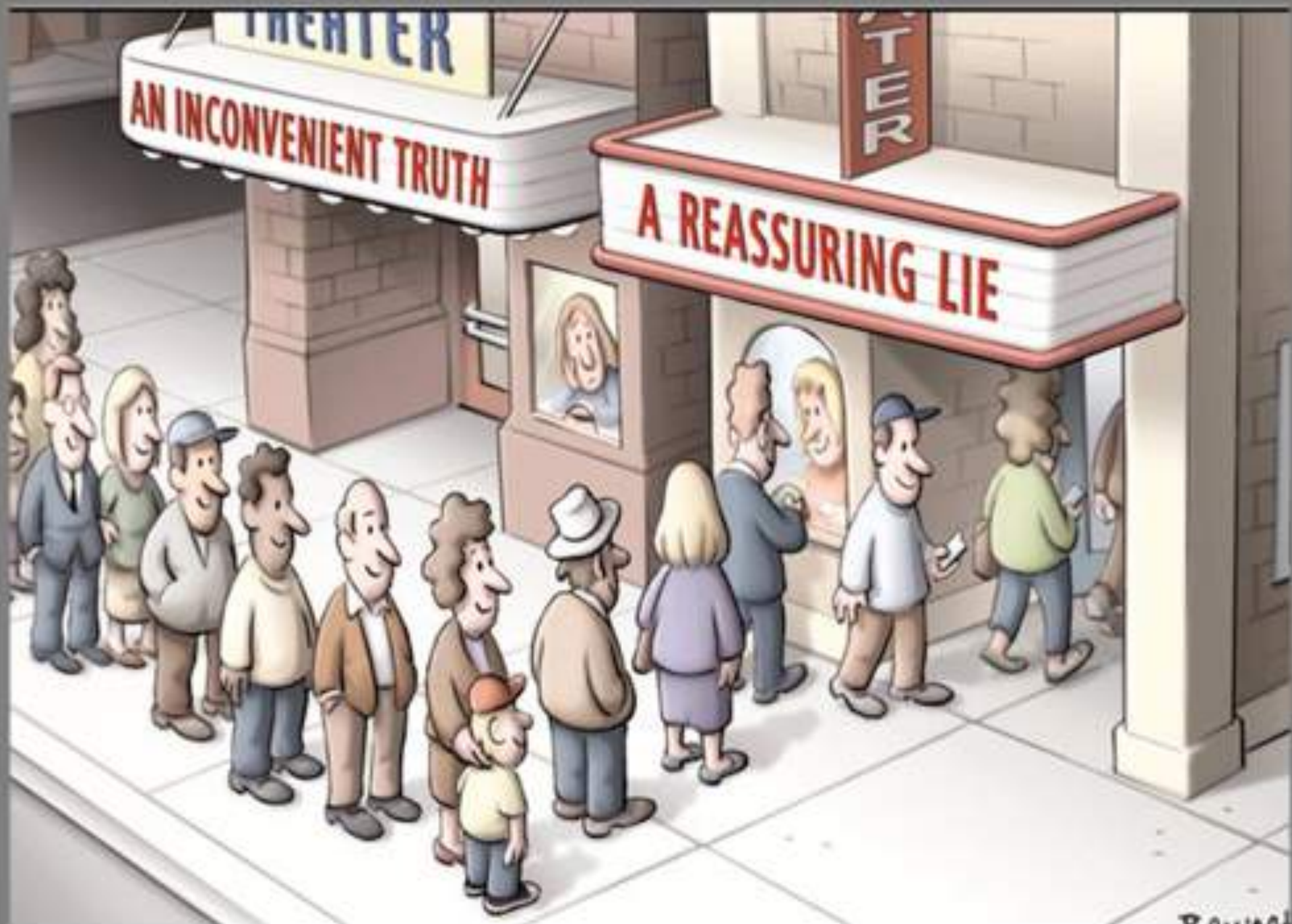


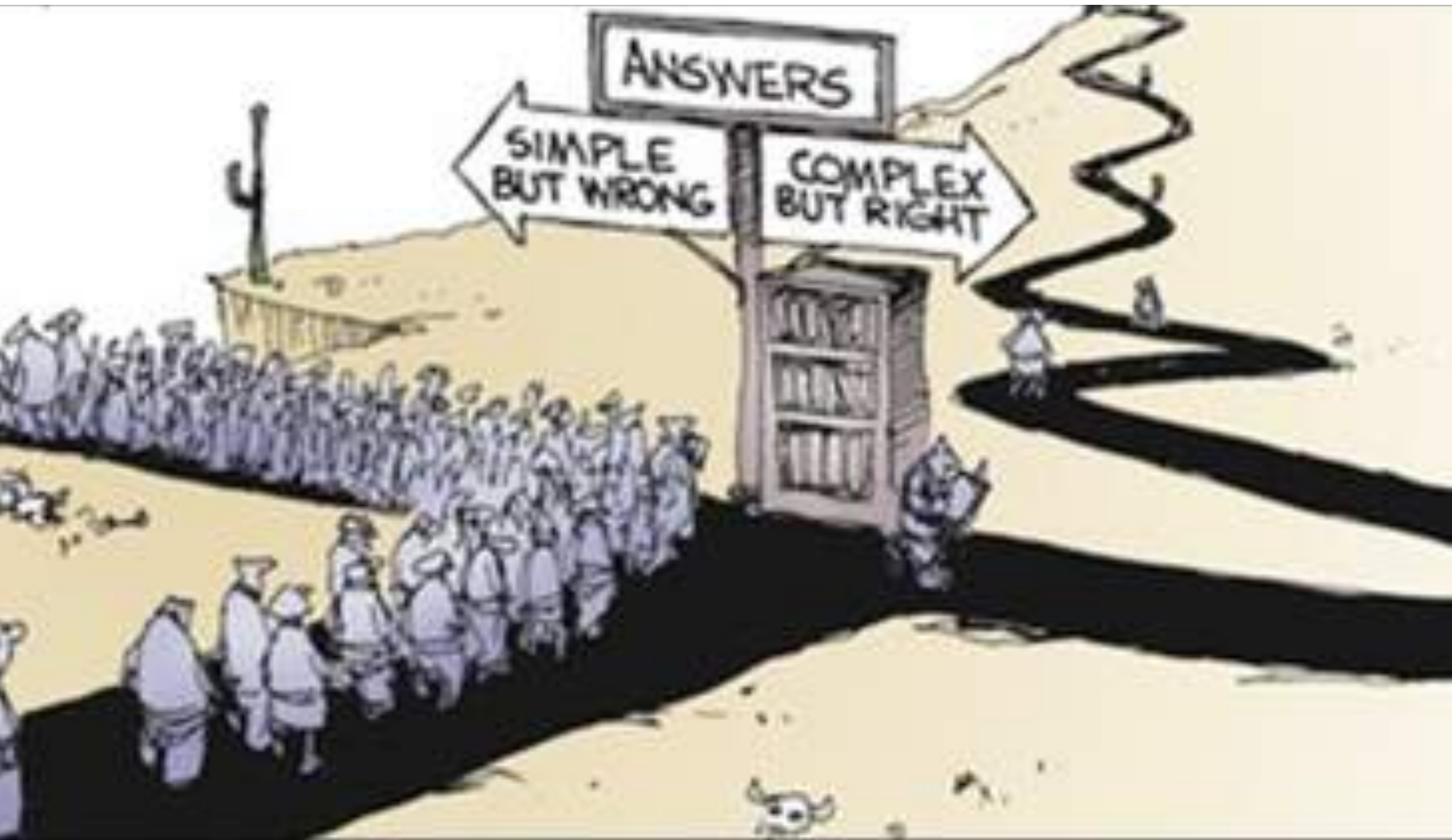
Proof of climate change:





Science cannot give us all the answers. In fact the most difficult questions, the most persistent problems are not matters of science, but of value. Science can tell us what is happening, but it cannot make us do anything about it.





Science vs Everything Else

A close-up photograph of a person's arm, showing a yellow rectangular sticker with the word 'STEWARDSHIP' in green capital letters. The sticker is placed on the skin, and a hand is visible in the background. The image is partially overlaid by a blue vertical bar on the right side.

STEWARDSHIP

**Awareness
Ethics
Action**

Outdoor Life

APRIL

25¢



Fishing's Big News p. 54

Calendar for Trout p. 64

Best Place to Hunt p. 68

g Laws p. 24—O'Connor's Persian Bear p. 62

How do we view fish





Empathy for a creature's existence




What do the presence, abundance and distribution of fish tell us about the watershed?



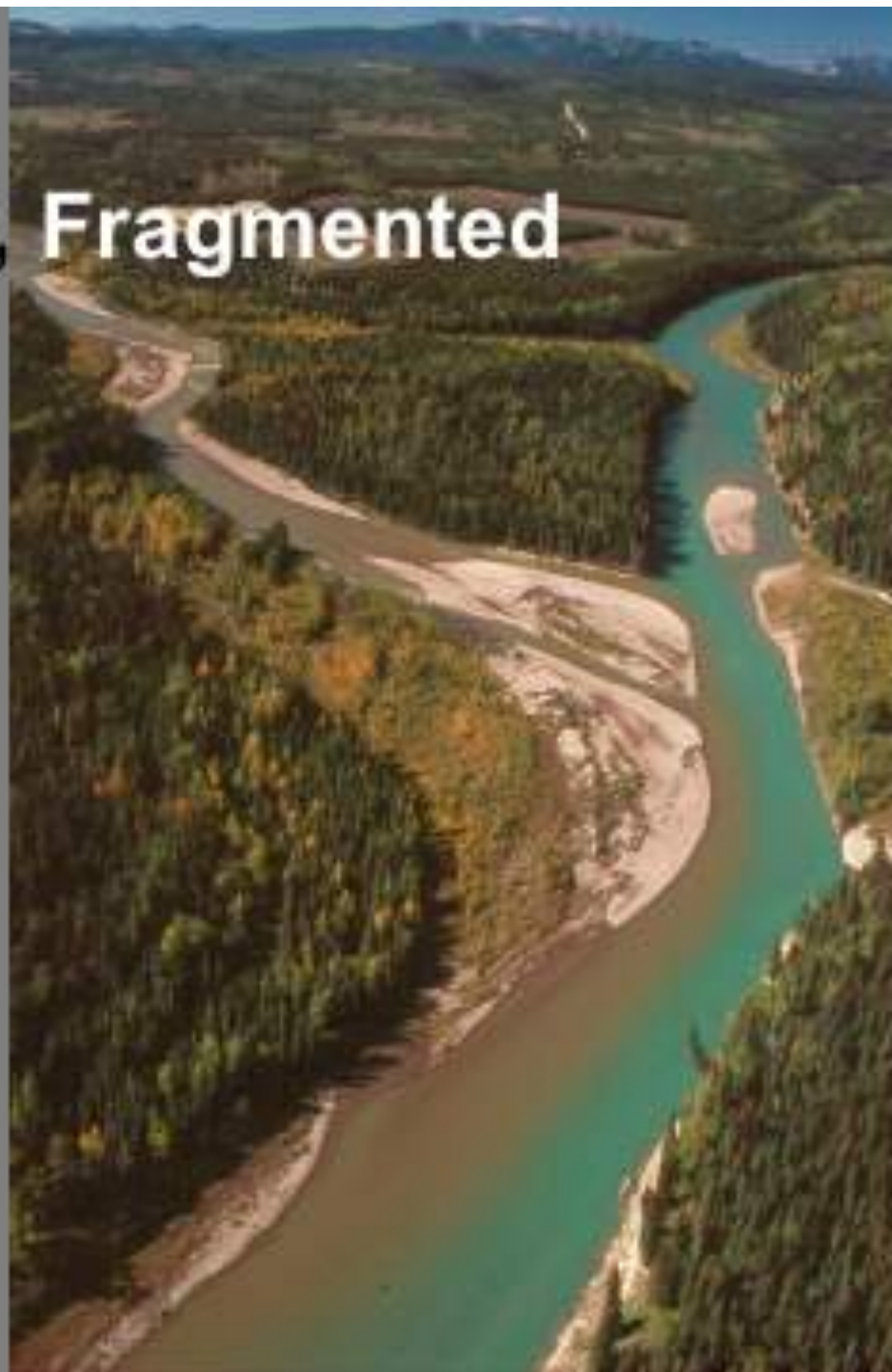
Fish are:

- **Integrators**
- **Indicators**
- **Sentinels**

An underwater photograph showing a rocky seabed in the foreground, covered with smooth, rounded stones of various shades of grey, white, and brown. The water is exceptionally clear, revealing a greenish-brown seabed further down. Sunlight filters through the water from the top, creating a shimmering effect on the surface and illuminating the scene. The overall atmosphere is serene and clean.

Cold, Clean, Complex, Connected

Warmer, Dirtier, Simpler, Fragmented





Can we have it all, and still have fish?

Cumulative Effects and Fish





“Progress may have been alright once,
but it went on too long.” Ogden Nash



Restoration





What is Restoration?

An intentional activity that initiates or accelerates the recovery of the health, integrity and sustainability of an ecosystem.

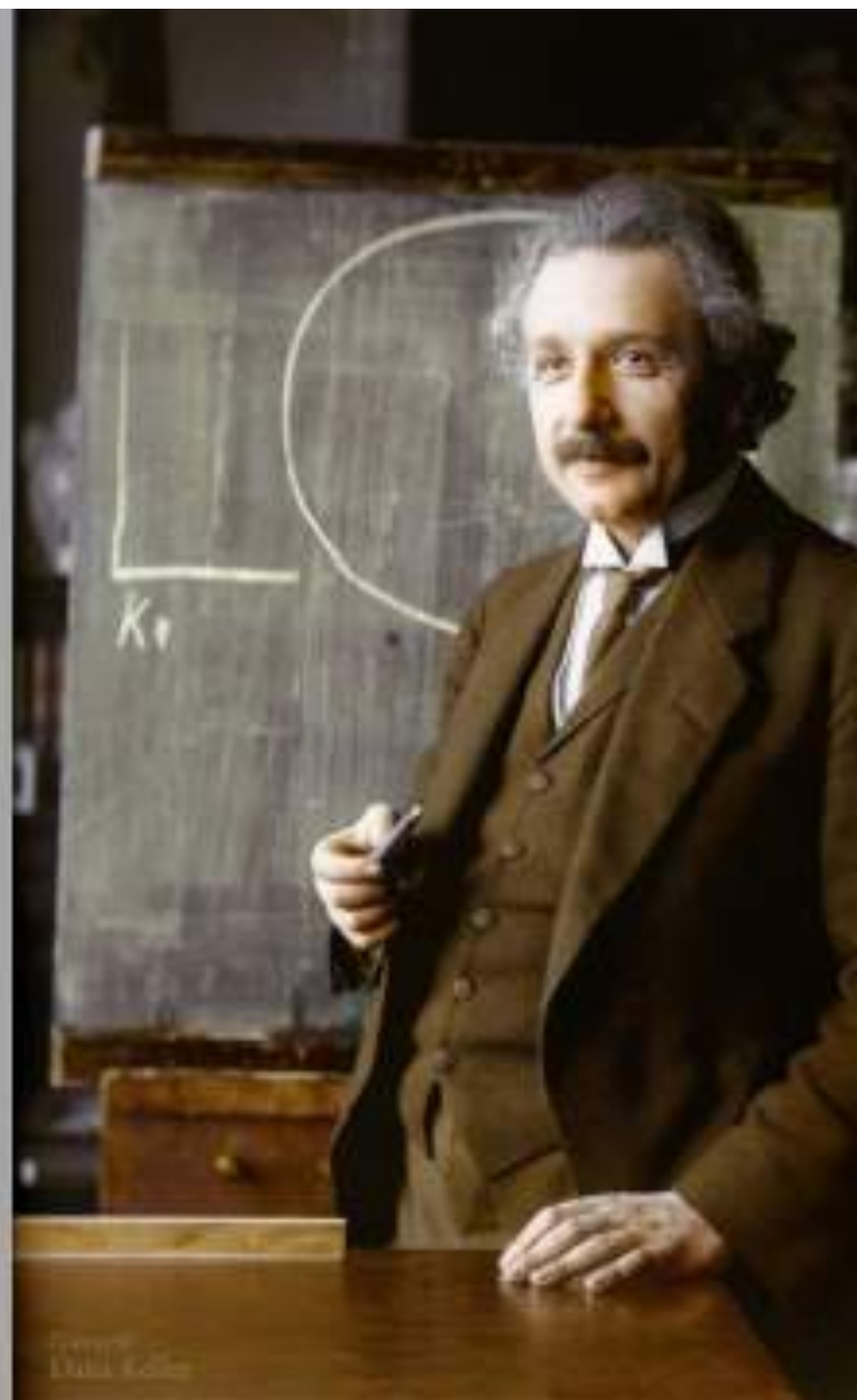
Restoration principles:

- Prevention
- Repair early
- Reconnect
- Enhance natural processes
- Evaluate and adapt
- Do no more harm



**The world we have created today
is the result of our thinking thus far
of problems which cannot be
solved by thinking the way we
thought when we created them."**

Einstein





Caution: Techno-fix Mitigation

Always seek the advice of a competent, objective professional before starting treatment. Stop treatment if symptoms of excessive and cumulative land use effects persist. Always evaluate before repeating treatment. This product may not be right for every situation.



Side Effects:

Blindness to impacts, self-deception, unrealistic expectations, unrealized costs, unintended consequences, unfulfilled plans, inadequate compensation, lack of avoidance strategies, biodiversity declines, fragmented landscape, increased footprint, incremental losses, loss of natural capital, cumulative impacts, lost future opportunities, reputational failure, repetitiveness without effect, suspension of reality

A Simple Metric for Recovery



achieve

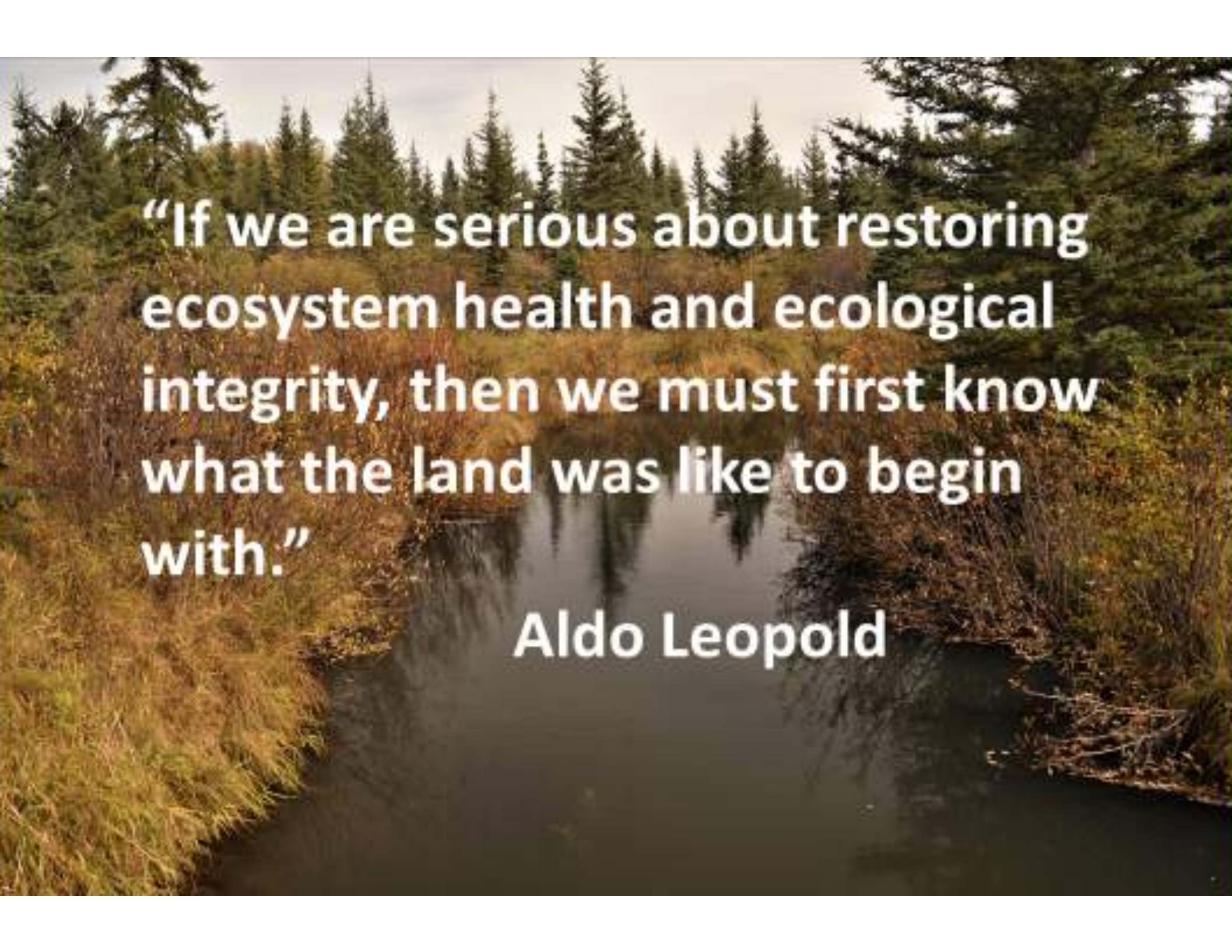
fail

Threshold value

“Conservation of what we have left is no longer enough; we need to start recovering what we’ve lost.”

Ted Williams





“If we are serious about restoring ecosystem health and ecological integrity, then we must first know what the land was like to begin with.”

Aldo Leopold

3 Federal Fisheries officer report:

**0 anglers on Flat, Sullivan
Weeks, Highwood River
tch 25,000 cutthroat
out**

**estimated 175,000
tthroat trout caught
om 15 SW Alberta streams**



Pekisko Creek- downstream, post 2013 flood

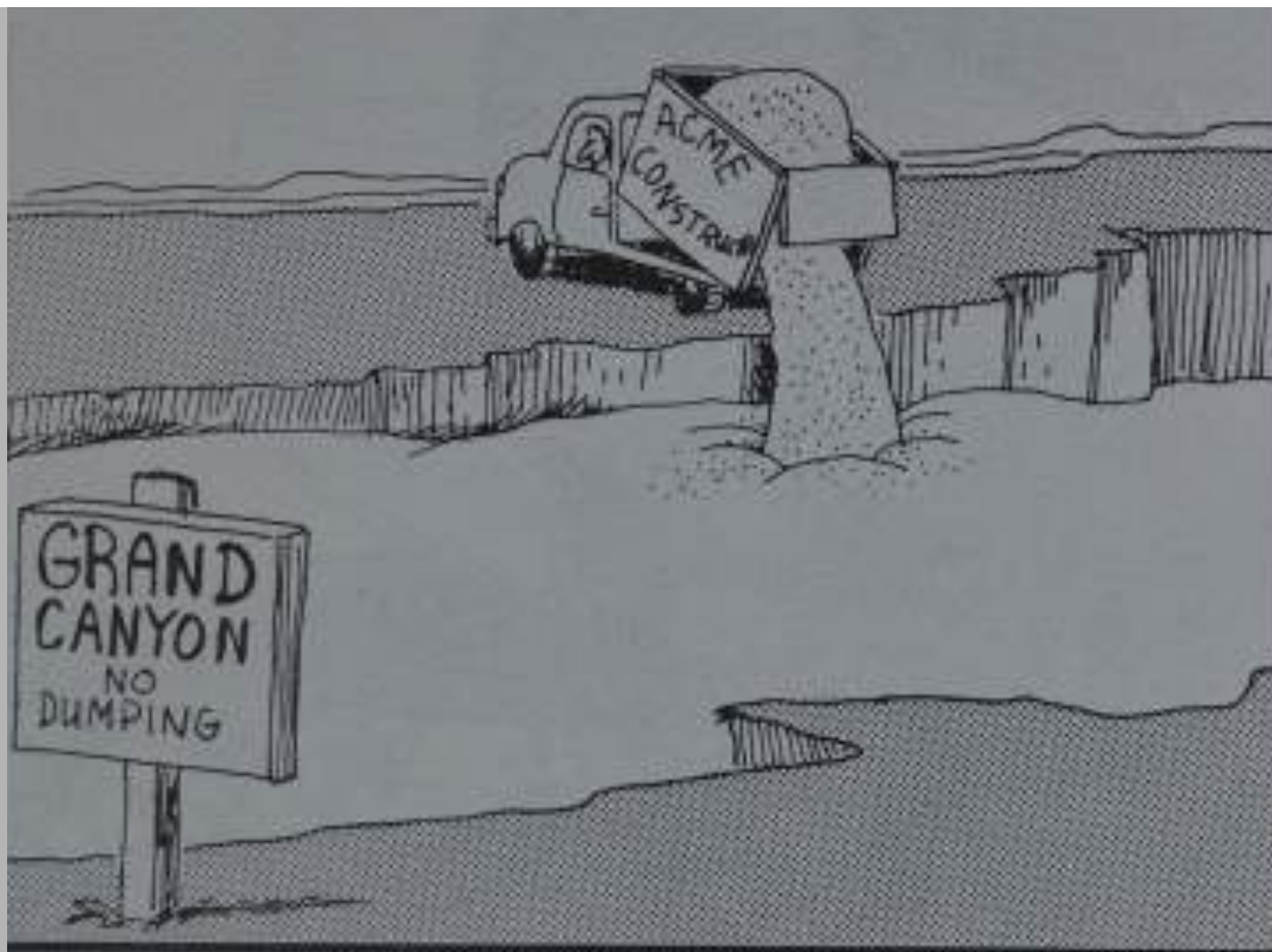




Pekisko Creek, upstream, post 2013 flood

Do what you can to stop making things worse,
and try to make things better.





Unfortunately, Larry had always approached from the side that wasn't posted, and a natural phenomenon was destroyed before anyone could react.

A detailed photograph of a native trout, likely a cutthroat trout, swimming in a clear, shallow stream. The fish is positioned in the center-left of the frame, facing right. Its body is covered in numerous dark spots and streaks, and it has a distinctive reddish-orange patch on its lower jaw. The stream bed is composed of smooth, rounded rocks of various sizes and colors, including shades of brown, tan, and grey. Sunlight filters through the water, creating a shimmering, dappled effect on the rocks and the fish's scales. The water is a clear, vibrant blue-green color.

**If you take care of native trout, you
solve most of the issues in our headwaters**


**If you solve most of the issues in our
headwaters, you take care of native trout**



It takes a watershed to raise a trout

**Long-term solution is watershed level restoration
and changes in current land use practices to
minimize future problems**



A landscape photograph showing a sunset over a series of hills. The sun is a bright, glowing semi-circle on the left side of the frame, partially obscured by the horizon. The sky is a deep, warm orange. The hills in the foreground and middle ground are dark, silhouetted against the bright sky. The overall mood is serene and contemplative.

**Hold up a mirror on the pace,
intensity, temporal and spatial
consequences of landscape
change.**

Restoration lessons from nursery rhymes



**Humpty Dumpty
Sat on a wall**

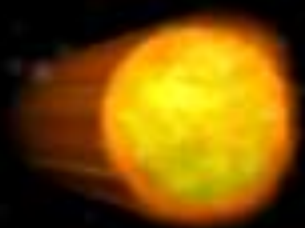
**Humpty Dumpty
Had a great fall**

**All the king's horses
And all the king's men**

**Couldn't put Humpty
Together again.**

**The care of trout is not a question
of trout, but of the human heart.**





We live on a blue planet, perhaps the only one
that supports life, that circles around a ball of fi
next to a moon that moves the seas,
and you don't believe in miracles?



WHAT EVER IT TAKES



I'M GOING FISHING!



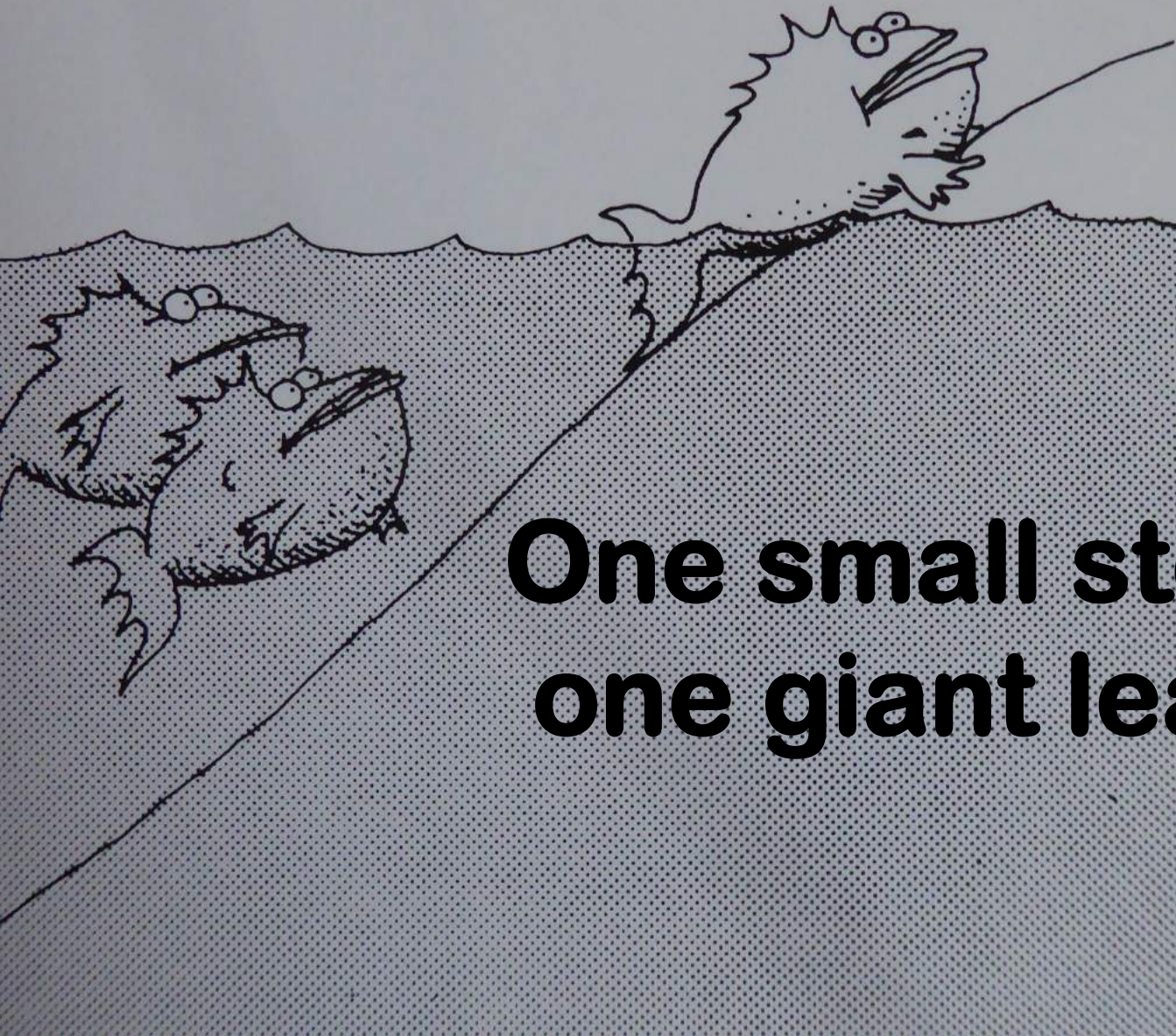




It's okay, fish...
you'll be in
fish heaven
soon...



Native Trout Recovery



**One small step for fish;
one giant leap for fishkin**

You never
appreciate what
you have till it's
gone.

Toilet paper is a
good example.



NATIONAL SPORTSMAN

ST 8

New Price 10¢

Pioneer Advocate of the Game Restoration Program



Above the Timber Line
Smallmouths with Big Appetites
by H. E. McArthur

Cutthroat from Kananaskis
by Cameron Stockand

Wake Eyes!
by E. West

NATIONAL SPORTSMAN









Rules of the Earth:

What goes around, comes around

Everything is connected

Everything is additive

Diversity equals stability

We are in the loop

An aerial photograph of a vast industrial landscape, possibly a coal processing or mining site. The terrain is heavily disturbed, with numerous winding roads, large piles of earth or coal, and several bodies of water. The colors are dominated by browns, greys, and blues, indicating a desolate and heavily engineered environment.

Denial

“It is difficult to get a man to understand something when his salary depends upon his not understanding it.”

Upton Sinclair



For restoration requires more
habitat structures to maintain
processes that cause habitat
formation









Fish funerals

