Rivers and streams in which the salmon are found or to which they resort shall not be obstructed by dams or otherwise, unless such dams or obstructions are so constructed as to allow salmon to pass freely up and down such rivers and streams.

---Oregon Territorial Constitution, 1848

The public must retain the control of the great waterways. It is essential that any permit to obstruct them for reasons and on conditions that seem good at the moment should be subject to revision when changed conditions demand.

—President Theodore Roosevelt, 1908

He whose braveness lies in daring, slays. —
He whose braveness lies in not daring, gives life.
Of these two, either may be profitable or unprofitable.
But 'Nature hates what it hates. . . .
He who grudges expenses pays dearest in the end;
He who has hoarded most will suffer the heaviest loss.
He that works through violence may get his way,
but only the mountains, rivers and heavens endure.

—Lao Tzu, Tao Te Ching, circa 400 B.C.

# 12. A Prayer for the Salmon's Second Coming

# Introduction to "A Prayer"

One day in the summer of 1969, an X-Acto blade pierced my left hand and turned me into the fisherman I'd set out to be as a boy. One day in the fall of 1987, a statistic pierced my conscience and changed me back into a

salmon, thirty jack salmon and sea-run cutthroat, and fifteen adult coho cally and no less joyously than the fish-crazed hero of my first novel fished the salmon and steelhead rivers of Oregon only slightly less fanaticivilian again. In between those two changes, for twenty wonderful years, salmon each year. landed an average of thirty winter and summer steelhead, five chinook fishing the back end of rainstorms as the waters dropped and greened, Focusing on five small streams near my eventual Tillamook County home.

ple. Or the bright twenty-eight-pound, thirty-five-pound, and forty-pound pound coho hen on a cutthroat fly and a little 4-weight fly rod, for examwhich you're laughably ill-prepared. A mint-bright, cartwheeling, seventhrills of coast-stream fishing are the many times a one-rod, one-reel search cast at dusk, did one quick subsurface thrash, then lit out on a half-mile eight-pounder, though, took a grease-lined Freight Car at the end of a long frankly, a lolling bore: I'd as soon play a dairy cow on a fly rod. The twentysummer steelhead. The forty-pounder-my largest salmon ever-was, chinook I hooked on the 6-weight fly rod and damp fly with which I chased for a particular kind and size of fish puts you over much larger quarry for it for half an hour, believing I'd hooked the steelhead of a lifetime. downstream run that had me gulping my heart down my throat as I chased I often fished, accidentally, for a multitude of species. Among the

I never fished the ocean, never fished the crowded bays, never fished in a hold a knife to my throat. ermen by hundreds to one. And I'll share their locations gladly-if you know a few coastal canyons where salmon and steelhead outnumber fishhiking were required to make this solitude possible. Even today, though, l crowd, period. Excellent maps, serious backroad exploration, and rough During my coastal decades I was a man of estuaries and mountains:

coho. A late autumn dinner of barbecued coho with, say, huckleberry salmon per season. I also, each November, killed a single, mint-bright wild and for a long time killed ten or so clip-finned hatchery steelhead and jack even my catch-and-release instinct, faded, then vanished. I love to eat fish, throughout those decades, grew ever more fragile, my killer instinct, then the true coastal Thanksgiving feast. The indigenous food did not just feed muffins, local greens, and a chanterelle soufflé, shared with friends, was us, it accomplished the impossible: it made beautiful, edible sense out of It's not for the fishing that I'm secretive. As wild salmon runs,

of those inches, it seemed, in November. Rains to put moss on your teeth; rains that set orange witches' butter growing from the seat of my Rambler A hundred twenty inches per annum in the valley where I lived. Half

> mood. The big fronts would blow in, the birds would be rammed south, ful to me. I grew to sense their approach and size by smell and barometric to Prozac. Thanks to the coho, though, the rains were nothing but beautisome to Southern California, some to hallucinogenic mushrooms, some American even as I drove it; rains that drove some residents to divorce, fattened, heaven-summoned coho. my waders for traction, blissfully chasing my small allowance of oceantoo small to be blown out, my grandfather's spiked golf galoshes on over out in the downpours, thrashing happily down the middle of some stream the folks with seasonal stress disorder would jet to Arizona—and I'd be

cussing its complex flavors in urbane otter chitter the entire time. I fished and die; watched their carcasses hang from branches or flutter from the stand guard over the redd for more days and nights, then weaken, drift, upon the salmons' very death. I watched coho spawn for days and nights, spawning chinooks-the ouzels, too, chittering blithely as they danced watched water ouzels stroll the half-rotten backs of still-living, stillstrolled leisurely upstream and did the same to my fishing partner. I the gray, scrutinized my face, sniffed the very tip of my fly rod, then one canyon so misty and wild that a blacktail doe walked up to me out of otters not fifteen feet away share an entire coho's spawned-out body, dis-November creek, in Neoprene waders one afternoon, and watched two ghostly green growth that let me see decomposition as a kind of blossoming black for days, white for a few more, finally sending out pale clouds of bodies of sunken cars; watched them lie dead in the quietest water, turndeath, the resurrection, and the life. faithful nibble the body of Christ. I glimpsed, as we all have in rivers, the ing. I watched the coho's own alevins nibble these blossoms the way the So many beautiful things would happen. I sat waist-deep in a

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coho, total, in the river from which I'd taken that hen. Turned out the eries biologist that there'd been an estimated seven spawning pairs of after that last coho rite, though, I was stunned to learn from the local fishour eyes skyward and sincerely thanked our Maker for the rains. Not long pound hen. And its flesh again worked the magic: my friends and I turned years. The coho were vanishing from Oregon. Department of Fish and Wildlife had been botching their statistics for The last wild coho I killed was in November 1987. A bright eight-

as this one, but without even vowing, I realized I'd never kill a wild Orebecome sin. Those blithe, golf-galoshing jogs down wild green currents become species extermination. Our sacramental November feast had had become unconscionable. I try to avoid vows amid a life as uncertair Who doesn't know the story? My favorite form of worship had

demanding piece of writing that follows: I share this bit of history not in lament, but to introduce the admittedly

unlikely industrial streams. of schoolchildren love and coax salmon back into a few preposterously financial sacrifices and lifestyle adjustments for salmon, and fresh waves year out, polled majorities of citizens swear their willingness to make them to do so. Most Northwesterners desperately want this. Year in and salmonids can continue to exist only if humans enable and encourage intimate contact with landscapes dominated by humanity. Because of this, The Pacific salmon's biological and migratory needs force them into

engines meant to crank out industrial profits. In defense of their profits, topic of wild salmon. The chief themes of the rhetoric: the same minority has diligently emitted a rhetorical smog around the This minority sees rivers not as arteries of interwoven life, but as hydraulic But a powerful minority disagrees with such love and willingness.

- It is not we who threaten salmon; it is salmon who threaten us.
- 2. By passing through our lands in migration, so-called endangered salmon in fact endanger our jobs, our crops, our electricity, our
- 3. No sacrifices should be made for these romanticized creatures of we miss them buffalo." rancher put it, "We're gonna miss them salmon about as much as die of industrial causes. As a prominent southern-Idaho cattle the past. If they can't survive while we do as we please, let them

penned by the very agency responsible for salmon recovery under the honest recovery strategies have also been buried in specious scientific studhonest people who care deeply about salmon have nevertheless come to fee hands by "objectively" reporting their "scientific" balderdash. As a result, has the salmon's best interest at heart, plays directly into these false stewards' Endangered Species Act. The news media in turn, assuming such an agency ies of farcical faux-complexity, the most ridiculous of which have been decision-making process needed for salmon recovery. Lawmakers seeking that anadromous fish and contemporary humanity can't coexist. Such rhetoric has not just created a media smog: it has stalemated the

which millions of humans, fauna, and megafauna depend for their very They're the signature wild creature of the Northwest—a creature upon industrial cynics. Pacific salmon are not just "canaries in a coal shaft." This is a disastrous misunderstanding, inculcated by ingenious

> tion of wild salmon left in the lower forty-eight: those of the Columbia/ value, the crisis, and the potential salvation of the most crucial populasitting—that pierces the cynical rhetoric and depicts the genesis, the true utmost to construct a narrative—readable, I hope, in one espresso-fueled to support "modern Northwesterners" for long. I have therefore tried my existence. A "modern Northwest" that cannot support salmon is unlikely Snake river system.

U. H. 33 of God moved upon the face of the water." The best way I know to begin to out form, and void; and darkness was upon the face of the deep. And the Spirit smooth-to-mountainous textures as the Pacific; same molten-to-frozen suddenly restless, inhaling and exhaling the moon-coaxed breaths called that pierces the Pacific-the entire ocean suddenly invested with being, the black waters of pre-creation, of the spirit of God. Imagine a quickening down in a quiet place and try to imagine the mysterious movement, across grasp the seriousness and scope of the Northwest's salmon crisis is to sit of the Bible, "God created the heavens and the earth. And the earth was withto produce wonder, terror, beauty, death, and life. temperature ranges; same unknowable, 36,000-foot depths; same power its depths. Imbue it with the same blue, gray, and green surfaces and glasstides. Limn this vast being with glaciers in the north, volcanic fissures in the beginning" say the very first lines

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nitely varied, and that her endless slow lovemaking with Sun brings your ocean mother's wombs are countless, that her fecundity is infisquare-mile mother not only fell in love, but began making love: imagin equally real, life-giving ways, he is. Imagine that after the spirit of real sense, she is. Imagine the Sun is your biological father-because, phalanxes of fishes; incalculable flocks of birds; gigantic typhoons; blue whales and great white sharks; endless living castles of coral; vast about countless gestations and births and an infinity of beings: great God touched them, your distant but brilliant father and 70-millionweather patterns the size of continents—because it does. ine Ocean and Sun in coitus for eternity—because they are. Imagine Imagine this being is your biological mother—because, in a very

falls upon the Rockies, Sierras, Sawtooths, Cascades, Bitterroots every raindrop and snowflake, every skyborne molecule of H2O that the cloud banks into the mountains and up against them. See how Now turn your imagination inland toward North America. Follow

slopes toward their mother, the result is every life-giving trickle, creek, prayer wheels we call watersheds. rain and snow, then congeal and start seaward, forming the perpetual flow back over us in oceans of cloud, fall once more upon the slopes as then rising up in great tapestries of gravity-defying vapor to blow and and river in the land. See how those streams and rivers, as Aldo Ocean's liquid offspring congeal, obey gravity, and start back down the literal offspring of their endless coition. See how, when Sun and Salmon Rivers, Clearwaters, Blues, is also a child of Ocean and Sun: a Leopold pointed out, are "round," running past our feet and out to sea,

again, more power, becoming the hundreds of rivers that form the single Y-shaped flow, really; each wing a thousand miles in length; the can states—260,000 square miles of continent, all told—back to the sea riverine reproductive power of two Canadian provinces and six Ameri-Columbia/Snake and carry the collective flow, industrial effluent, and than our own veins and arteries, converging, gaining power, converging in obedience to gravity, forming a filigree of tributaries more intricate the countless snowbanks, marshes, seeps, and rills that start downward shedding rains and snows on range upon range of mountains, forming formations as big as Alaska easing one after another in off the Pacific. swiftest river of its size on earth. Picture the Prayer Wheel entire: cloud Picture the Columbia/Snake Prayer Wheel: two joined wings of a

, itations—yet it does. For all the diversity of life they've given us, Sun distinct runs for all time. dams have destroyed 90 percent of these beings, extirpating scores of is the wild salmon. And in just twenty-five years, four Snake River most celebrated of which, for a hundred poetic and pragmatic reasons. swells a thousand miles away. That family is the anadromous fish, the high-altitude valleys of our continent's interior and the green ocean family of creature capable of journeying back and forth between the and Ocean have managed to bequeath us just one-count them: onefecund as the reproductive power of Ocean and Sun could possess limas human beings-yet it is. It's even harder to see how anything as Prayer Wheel in trouble because of the antics of anything as ephemeral It's hard to imagine anything as mighty as the Columbia/Snake

"just a fish of diminishing value." The Columbia/Snake system has tuan appetite for the rivers' life-giving currents—claim that salmon are hydroelectric system—with their huge taxpayer subsidies and garganchanged, they say. Salmon haven't, and that's too bad for salmon. But The corporate and federal beneficiaries of the inland Northwest's

> and "profitability," there is nothing so necessary about salmon that we should sacrifice anything at all to preserve them. in "today's world," river industrialists argue, in terms of "practicality" Senator Slade Gorton (R-Wash.) calls the survivors. "Remnant species,"

ness, a divine gift. Celts like me, salmon are not just a vanishing species: they are a holi-Chouinnard and hundreds like him, and for a few long-memoried socially responsible, Earth-awake corporate culture led by Yvon citizens, for our native tribes, for our Catholic leaders, for an emerging pletely embarrassed by the fact that for the majority of Northwest ies; completely forgetful of the fact that we can't eat electricity; com-78-percent-H<sub>2</sub>O, solar-engined, wind-breathing, protein-needing bodcompletely oblivious of the natural forces that daily sustain their own I never cease to marvel at such pathologically self-involved minds:

space. And in irrevocably annihilating one of Earth's invaluable food define salmon as "just a fish." Let's assume it does. Let's temporarily species, we rip irreplaceable planks from the hull of our ship for all time. to see our wild salmon as anything but protein units. We run into probjust a warm, wet, finite ship sailing a sea of cold and uninhabitable lems even so. Because even insofar as salmon *are* "just a fish," so is Earth refuse—like a congressperson with a lobbyist's brass ring in his nose— Perhaps the separation of church and state means the state musi

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ing a hysterectomy upon the Columbia/Snake Prayer Wheel, that four the very beginning—Bible, page one—and remind our lawmakers that touch of the spirit of God Snake River dams are uncreating the primordial waters' response to the four federal dams are unmaking a holiness, that four dams are perform-This in itself is reason enough to save them. But I would begin at

#### Migration + 16 Dams

about her. Then, at the nautically unpromising length of five inches, madonna, imbibing her unique chemistry, memorizing all they can For a full year, in some cases two, fingerlings cling to this unlikely parent fish, but to the parenting stones and flow of their birth-stream. clear flow of a high mountain stream. The tiny fish thus bond not to a The inland West's wild salmon awaken, at birth, to the pebbles and steadfastness, and distances, that of Odysseus himself. ing and set out on a journey that rivals, in terms of wonders, horrors they obey their blood and the parent stream's incessant downward urg-

Juvenile coho, sockeye, steelhead, and the three surviving strains of chinook all make the marathon swim from the inland West's mountains to the Pacific, but it's the way spring and summer chinook do it that really gets me: fasting like holy pilgrims, five-inch bodies quivering like flames, these two-year-old naifs travel the entire distance—eight hundred miles or more—backwards. As the current sweeps them seaward tail-first, they gaze steadfastly back upriver toward the mountains, like kindergarteners backing ruefully away from home toward a first day at school. They've got plenty to be rueful about: 99.7 percent of them won't live to see their birth-stream again.

Because they fast all the way, the smolts' migration must be swift or they starve. There is also a limited window during which they can make the metabolic transformation from fresh to salt water. In the predam era, the Columbia/Snake's mighty spring runoff carried smolts up to nine hundred miles in two weeks or less. Now, with eight dams and slackwaters in place, the same journey takes six weeks or more.

Gale Ater—of Gouge Eye, Idaho—is one of four intrepid souls who swam the upper half of the astounding sockeye smolt migration route from Redfish Lake, 7,000 feet up in the Sawtooth Mountains, down to the first of the four notorious dams. In the unfettered Salmon River, Gale said, the swimmers were carried an effortless thirty miles a day by "just stayin' afloat and watchin' for rocks." Then they hit the forty-mile slackwater behind Lower Granite Dam. "You hear the word 'impoundment' different forever," Gale told me, "once you've approached one by swimmin' four hundred miles of free-flowin' river. Soon as we hit slackwater, a ten-day emotional high became the Bataan Death Swim. Headwinds, three-foot whitecaps, the same boring chunk of basalt in the distance though you've swum for hours. Our interpersonal dynamics went to shit. Five miles a day was torture. We almost gave up."

Still far from the dam, the swimmers saw a fleet of boats approaching. It was the Nez Perce—the same tribe that kept the Lewis and Clark Expedition from unraveling two hundred years before—come to honor the group's gesture on behalf of salmon. The swimmers found fresh strength, made it to the dam, were made honorary members of the tribe and given a feast. "How cool is that!" says Gale.

Very. But at the point the humans faltered, the fasting smolts still have seven slackwaters, eight dams, and four hundred miles left to traverse. And in each slackwater the salmon encounter an array of predacious fish (bass; walleye; the smolt-devouring artists formerly known as

squawfish) whose populations have exploded thanks to elevated water temperatures. Lack of current brings migration to a near standstill. The fasting juveniles waste energy seeking elusive river flow. The John Day slackwater alone is eighty miles long. The desert country in summer is a furnace. The same temperatures that give voracity to warm-water predators are, by July, deadly to smolts. Schools of salmonids sometimes circle slackwaters for weeks, unable to sense the way to the sea. When their metabolic-transition clocks run out of time, they become baitfish. Sport fishermen aren't fools. The bass lure of choice in all eight impoundments is a four-inch Rapalla the green-backed color of a bewildered chinook smolt. And of the smolts that somehow survive and return as adults, 40 percent will be killed, before they can spawn, by the same dams.

When they reach the dams, the young salmon that travel deep are torn apart by sheer pressures and crushing currents, 5, to 15 percent at each dam; eight dams in all; end of story. The smolts that travel shallow, though, are blasted over spillways, which kill just 2 percent per dam—but only if river current is sent over spillways rather than through turbines. To the region's hydroelectric profiteers, this means that "their" generators are being "robbed" of kilowatt dollars by juvenile salmon. Hence the long, bitter fight for the very flow of this river—and the shocking hatred, among industrial river users, of five-inch travelers, fasting as they drift, gazing back toward long-lost, mothering mountains. Only because of the Endangered Species Act have these embattled innocents begun to encounter spillways and fish bypass systems instead of turbines.

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The lucky, starving smolts that reach saltwater encounter fresh trials, such as a sterile shipping channel where a food-rich estuary should be, and a man-made island of dredge spoils now harboring the world's largest colony of smolt-eating Caspian terns. But the fish that reach the Pacific, even today, put on silvery muscle fast, and, for the next two to three years, travel distances that put every inlander but circumpolar birds and long-haul truckers to shame. Some Idaho chinook swim ten thousand miles at sea. They've been caught off the coast of Japan, the Kamchatka Peninsula, the Aleurian Islands. Diving so deep at times as to be untraceable, swimming too far, too fast to be followed, oceangoing salmon maintain the ability—so troubling to those who would control them completely—to elude the radar of human knowing.

Yet no matter how far they rove or how big and strong they grow, there comes a day when they hear in their blood the song that leads them to abandon the sea and seek again their high-mountain place of

they begin—despite all they've endured—to make love. currents, rediscover the mothering stretch of pebbles and snowmelt And if and when they again conquer the eight-dam gauntlet, parse the birth. The journey is always fatal. Every salmon undertakes it even so

other. They were making love to the very land and water, to broken bits of mountain and melting snows. did they touch each other. Because they weren't making love to each chinook circle their pebbled redd, tending it, guarding it—I want to say send milt melting down into her nest of stones. I watched the paired male ease in front of those suns without once touching the female, and exactly the color of setting suns. I watched the darker, fierce-kyped so tender the touch of a child's fingertip would crush them, eggs offspring she would not live long enough to see. I watched her lay eggs shovel and dig, in the unforgiving bone of the continent, a home for great, crimson-gilled gasps of effort, turn her ocean-built body into a hundred miles from the sea, I watched a single female chinook, with "loving it," if the State will allow. Yet only incidentally, as if by accident, But not to a mate. On the eastern edge of Idaho last fall, seven

colored eggs streambed nest, which the female covered with protective pebbles with hard in the Rockies. Snow is mounting high. But in that ice-covered her last few strokes of life, tiny eyes are even now appearing in her sunfrigid gravel womb. As I write these words, winter has snapped down I left them to die, as salmon do, their clutch of eggs orphaned in

of an impossible watery flame. mountains and sacrifice their lives, that tiny silver offspring may be born return from the sea, these incomparable creatures climb our inland der. Only wild salmon can embody it. Each migration, each annual and mountain ranges in absolute earnest, solely to make contact with dark or glib some humans work to make it, wild salmon still climb rivers that creates not heat but life. And in this bewildering age, no matter how that flame. Words can't reach deep or high enough to embody this won-There is a fire in water. There is an invisible flame, hidden in water,

ing from the American West and the Pacific for all time These are the beings, the "remnant species," that we are eradicat-

#### rreplaceable Genetic Treasure

evolutionary nexus in which salmon species are created and served The three most crucial refugia of Pacific salmon on Earth—three giant

> to the world, thriving and whole—are the Sacramento, Yukon, and Columbia/Snake river systems.

evolve their hardy indigenous salmon stocks. The entire population of of thousands of people thrown out of sustainable outdoor work and salmon strains, ancient as gods, doomed to annihilation in a day. Tens This is too easy to say: it is crucial to imagine it. Hundreds of crucial were destroyed in a day, by the Grand Coulee Dam, half a century ago. British Columbia, a third of Washington State, and northern Idahothey were lucky, destroyed and dispersed if they weren't. forced to rote factory jobs. Scores of indigenous tribes impoverished if the upper Columbia portion of that system—the salmon of eastern The Columbia/Snake's hundreds of streams required millennia to

depend utterly upon the Snake River migratory corridor to reach destroyed by technological incest. stocks alone that give artificial stocks a fleeting viability before they are salmon bard Tom Jay calls hatchery fish. It is our resilient, diverse wild genetic inferiority and nonexistence. batches of identical first cousins rapidly inbreeding themselves into "man-made" stocks are ephemeral because all are, essentially, big do not know how to create and maintain a viable race of salmon. All pens and hatcheries. Dolly the Sheep notwithstanding, human beings that continues to give us all Pacific salmon-even those raised in netthough not many realize it, these last wild strains are the genetic engine Idaho, eastern Oregon, and the southeast corner of Washington. And The surviving anadromous fish of the Columbia/Snake now "Homeless seagoing Spam,"

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salmon. Every winter, for example, anchor ice forms in their hightirpating as I write-are adaptive geniuses, utter standouts among elevation birth-streams, freezing the streams almost solid in places. runs as the ice forms, then freeze to death en masse. Idaho's wild under this ice and winter over in deep pools. Coastal salmon stocks, heated shallows, and become easy prey Introduced coastal smolts grow stressed and oxygen-deprived in the in "summering holes" cooled by depth, shade, and in-stream springs. genius fingerlings also know, as they migrate during July heat, to gather introduced to the same inland waters, stay put in the seemingly benign Idaho salmon smaller than my little finger know to move out from The wild fish of Idaho-the ones the Snake River dams are ex-

salmon with hatchery fish have a forty-year history of failure. Musically less attempts to "repair" or "replace" the inland West's dam-annihilated This kind of indigenous genius is a primary reason why the count-

For Pacific salmon, the hatchery programs are a failed industrial dream. The insurmountable problem: God and Nature are infinitely smarter and more nuanced than Industrial Man. The longer the migration, the more dismal the hatchery failures. The vanishing sockeye of Idaho's Redfish Lake, to cite one of countless such failures, were replaced with 3 million Canadian sockeye eggs three years in a row. Millions of healthy smolts were duly released for the Pacific. The number of sockeye that adapted to the river, the slackwaters, the dams, the sea, and returned to Idaho as spawning adults: zero.

Wild Snake River salmon are the irreplaceable genetic treasure that safeguards *all* Pacific salmon, "farmed" or wild, inbred or free.

## Cold War Relics

A dam is not a biological treasure, and it is not a holiness. A dam is an inanimate, river-altering tool, created by humans to serve humans. Most of our 75,000 dams were built before negative biological, economic, or cultural impacts were a consideration, hence many have done more harm than good. Learning from our mistakes, we've created laws that weigh some of the long-term damages of dams against their benefits. When a river-altering tool is shown to be more injurious than helpful to a majority of humans and to the health and wholeness of the land, we now occasionally recognize our obligation to retire that tool before it injures further.

Americans have, historically, not been fast to retire dangerous tools, because tool retirements come with a price tag. We're getting faster, though. Only by paying the price to retire tools fiercely defended by profitmakers has America ceased to be the land of thalidomide infants, asbestos-ceilinged schoolrooms, DDT trucks dousing residential streets, Dalkon Shield IUDs, and explosion-prone cars. The Snake

River dams have earned an early retirement alongside those other once-loved products in the American Museum of Fabulously Treacherous Tools.

simultaneously flooded Yankee Stadium, Madison Square Garden, celebrants and Neolithic traders from as far away as Central America greatest tribal gathering place west of the Mississippi, drawing salmon Dam) of the lower Columbia's Celilo Falls-for ten millennia the dependent Indian tribes; and the 1956 inundation (behind the Dalles the impoverishment of hundreds of fishing communities and salmonbenefits and disasters. Among the disasters: mass salmon extinctions; are not created equal. The four on the Columbia have brought both flushing migratory smolts to sea. With changes in operations policy modate safer salmon passage and now assist, albeit awkwardly, in tricity, the aluminum that became the aircraft that helped win World hydropower, navigation, flood control, and, thanks to abundant elecized by this act, however, the four lower Columbia dams have brought Fifth Avenue, and the New York Stock Exchange. To those not victim-American Indians what it would do to New Yorkers if the Army Corps Celilo's inundation was an act of cultural annihilation that did to tric projects a rarity. energy alternatives come on line, making giant, river-killing hydroelecdams could keep salmon mortality at a viably low rate until sustainable strategic aluminum industry's deadly waste of hydropower, these four (particularly at John Day) and an unbiased look at the no-longer-War II. The four Columbia dams have also been retrofitted to accom-The eight federal dams that bar the inland West salmon's journey

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The four dams on the Snake are an agonizingly different story. Conceived at the height of the Cold War, they are deadly relics of that brutal era. It's a mistake to forget or to underestimate this. The four Snake River dams are a conception of the same vintage of federal pathology that gave us the House Un-American Activities Committee's Hollywood blacklist, J. Edgar Hoover's hattred of Martin Luther King, the Nevada nuclear test sites, Rocky Flats, the Hanford nuclear leak site, anthrax, 3.5 trillion lethal doses of nerve agent released by the Pentagon into Mormon- and Navajo-populated deserts, thousands of army troops ordered to lie in fresh atomic fallout, millions of civilians unwittingly exposed to the same fallout, encephalitis-carrying mosquitoes released by Defense Department scientists upon destitute civilian volunteers, 45,000 American radioactive sites, 1,140 carcinogenic uranium mining sites in Utah alone, and a present-day epidemic

of cancers that we will never be able to tie to its Defense Department sources.

The four dams on the Snake are the Cold War's killing progeny. And even in the political climate of the 1950s the dams were bitterly opposed for the damage they were sure to inflict on the salmon-dependent Northwest. Among their opponents were President Dwight D. Eisenhower; the Corps of Engineers, which later built them; the Oregon and Washington departments of fish and game; the region's thirteen native tribes; the West Coast's multibillion-dollar fishing industry; and the majority of the region's salmon-loving populace. But the 1955 Congress, craving a four-dam hydropower "saber" to rattle at the Soviets at any cost, liked the proposed dams' meaningless proximity to that other monument of Big Stick diplomacy—the Hanford Nuclear Reservation—and so approved them. The four dams came on line. The river route to and from wild Idaho was quadruply blockaded. And wild salmon runs and related economies crashed as predicted.

Something few people know: the four Snake River dams are of a type known as "run of the river"—which offer no flood-control storage. The Northwest's far right foretells catastrophic floods with the dams gone. It's a lie. The reservoirs of these dams must be kept within three feet of the top to run navigational locks for barges. Two more absurdities: for months at a time these desert dams turn just one or two turbines (the Columbia dams, on average, turn ten or more); nor do the Snake River dams provide storage for irrigation: thirteen agribusinesses use just one reservoir, Ice Harbor, for irrigation, and with the dam and reservoir gone they can simply run intake pipes to the river—a fraction of a week's work for an irrigation crew. The truth is, the four dams, beyond their limited hydroelectric function, were a pork-barrel present to the inland town of Lewiston, Idaho, whose D.C. insiders had a nature-whuppin' hankerin' to be a "seaport"—450 miles inland from the sea.

This so-called "port," the salmon's bane, is living proof that subsidies can be as dangerous as drugs in causing harm to neighbors. The Lewiston "port" is primarily a trucking depot. Its "marine" portion receives no oceangoing vessels and would be insolvent without federal and county subsidies. Most ludicrous of all: its barges plow alongside railways and highways that until 1975 carried the region's cargo at no cost to salmon, or to U.S. citizens—who have so far pumped billions into dam and port construction and operation, and \$3 billion more into failed efforts to redress the deadly effects of the dams.

and many more, strangling the economies of towns throughout the including Oregon's Imnaha, Grande Ronde, Wenaha, Lostine, Minam, hangman's noose round an entire crucial Pacific salmon refugium, River salmon"—is a tragic understatement: Lewiston's "port" places a cal rhetoric has instilled vague yet paralyzing fear in the hearts of fedthey've created a quasi-culture of slackwater politicians whose hysterithe dams of the Snake have not just impounded life-giving current: generate as much as \$2.6 billion of new regional income, annually. But even modest recovery of Snake River-dependent salmon stocks would diately. Independent economic studies say that dam removal plus ar Corps of Engineers, will create between 13,400 and 27,700 jobs immetwenty-two people. The four dams' removal, even according to the in semi-ruins. That same year, the Lewiston "port" directly employed head—generated \$90 million and created 2,700 jobs, even with the run the sport fishery for just one Snake River species—the summer steelregion, along the Columbia, up and down the Pacific Coast. In 1993 North, South, and Middle Salmon, Selway, Rapid, and Lochsa rivers; Wallowa, and Powder rivers; Idaho's South and Main Clearwater, eral lawmakers. The usual media term for the species being eradicated—"Snake

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could possibly be in trouble when she sees canned salmon stacked in of life? Helen Chenoweth-Hage (R-Idaho) asks how Idaho's salmon integrity in favor of a "self-interest" that permanently destroys the web ers" trying to convince us to ignore biological reality and spiritual no less, by the removal of four dams that offer no flood control). Gordon Gorton sees in the removal of Snake River dams a new "domino theory" her local supermarket—ignoring the fact that it's Alaska salmon. Slade gained control of all state fish-management decisions and fisheries scistoned. The ruling Republicans of Idaho, meanwhile, have quietly ing salmon with jobs and prosperity by accusing the Corps of being Smith (R-Ore.) responds to rigorous Corps of Engineers analyses link-Max"-style postindustrial wasteland ravaged by biblical floods (caused, that will bring down all dams, everywhere, and leave us in a "Mad altruistic reason to sacrifice the inland West's salmon to their agendas. turds. On the day a slackwater politician comes up with a single cogent, nile salmon from the state's pristine interior to the lower Columbia, like 400-mile-long water-filled pipe down which to flush endangered juveence. As a result, Idaho is now exploring the possibility of building a I'll eat my trout flies. All five boxes. What is the substance of these fears? Who are the regional "lead-

bor, Lower Monumental, Little Goose, and Lower Granite dams came on line in 1962, 1969, 1970, and 1975, respectively. Their legacy so far: So far, we live-and salmon die-with the idiocies. The Ice Har-

- River migratory corridor, extinct 1986: all Idaho, Oregon, and Washington coho dependent on the Snake
- 1990 through 1999: 20 sockeye, total, returned to the same vast system
- 1997: all surviving Snake system salmon and steelhead threatened or endangered
- 1998: 306 fall chinook returned to the system (down from 100,000 or more per run)
- 1999: Idaho spring/summer chinook, once the largest run of its kind in with no spawning for the first time in history the world, down to 2,400 returning adults, leaving many key streams
- 2017: system-wide extinction predicted

risk in the nation," hence an incomparably greater threat to American gress's approval of the dams, Hanford is now so full of irreparable subterin our lethal duel with the Soviets, and the decisive factor in the '55 Conweapons works is painfully revealing as Cold War metaphor: once a tool is spending the sweat of its laborers, the genius of its scientists, the dent Eisenhower said of the Cold War, "is not spending money alone. It well-being than modern Russia or China. "This world in arms," Presi-Department of Energy, "the single largest environmental and health ranean radioactive leaks that it has become, according to the U.S. The Snake River dams' proximity to the defunct Hanford nuclear

> iron cross." Under the cloud of threatening war, it is humanity hanging from an hopes of its children. This is not a way of life at all in any true sense.

sacrifice, and restoration. region's hydropower frightens some, because no one's done anything schemes of the USSR under Stalin. To give up 3.5 percent of the Earth, mirroring the grandiose, and famously fatal, engineering their people remain on an iron cross. The two hundred dams of the for long without engaging in corrective acts of self-criticism, selffamily, no country, and no civilization in history has remained viable up a mere four deadly dams that terrifies me—because no person, no Looked at in human and biological terms, it is the unwillingness to give like this before. But no nation on Earth has erected 75,000 dams before. Columbia/Snake make it the most overindustrialized river system on The Soviet Union is dissolved; the Cold War over. Yet salmon and

that salmon support. We can't have both. interior West can have wild Pacific salmon and the vast web of wildlife railways and highways and enjoy a piddling barging operation—or the Its biological and spiritual web of life is. Lewiston, Idaho, can ignore its Three-point-five percent of a region's hydropower is not strategic.

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brilliantly false adviser, Iago. NMFS is the salmon's Iago. wrote a play concerning a general, Othello, whose life is destroyed by a Fisheries Service, aka "NMFS" (pronounced "nymphs"). Shakespeare people, namely the U.S. Department of Commerce's National Marine thus bequeathing the problems of salmon not to fish people, but to money A century ago our government defined salmon as a "commercial species,"

examine in a moment—salmon runs have done nothing but collapse, which has been a disastrous juvenile-salmon barging program that I'll three decades of NMFS/Corps "stewardship"—the primary feature of muscle" of salmon recovery under the Endangered Species Act. In jurisdiction have remained standing. But NMFS's performance is far while even the most murderous, cost-ineffective dams under their system thoroughly, and concluded that the system "poses no jeopardy" brazenly announced that they had studied the Columbia/Snake hydro extinctions in Oregon, Idaho, and Washington, NMFS scientists more treacherous than this. In 1993, deep into the dam-inflicted NMFS is, so to speak, "the mind" and the Army Corps "the

THE REPORT OF THE PARTY OF THE

to the recovery of Snake River salmon! This from the salmon's scientific "champion" under the ESA!

"I am not what I am," whispers Iago.

Outraged salmon lovers were forced to take the agency to court, where Judge Malcolm Marsh, in a landmark decision, found NMFS's science "arbitrary and capricious" and ordered it to rewrite its biological opinion, this time incorporating the expertise of state and tribal fisheries biologists. Seeming chastened, the NMFS/Corps team instigated the most comprehensive analysis of a fish species and watershed ever conducted on this planet. The renowned effort, known as the PATH study, included a carefully defined procedure, a review process, a 1999 deadline to honor the fact that salmon would be going extinct as research proceeded, and a federal vow that PATH science, being the best that humanity has, would determine the course of wild-salmon recovery action.

After five years of arduous effort, the comprehensive study concluded that existing strategies of river use will lead to certain extirpation of inland salmon; that barging smolts around dams cannot restore viable runs; but that if the Snake River dams are removed, our endangered salmon have an 80 to 100 percent likelihood not just of surviving but of flourishing.

what the cause is.... More study is needed." And here are NMFS means short of breaching dams." "One option would be to wait." simple, easily defined enemy." "[Salmon] could be rescued by some "salmon experts," cited and paraphrased in the October '99 New York by the tobacco industry: "Research . . . indicates many possible causes of It's also a sickeningly familiar tactic. Here is a 1965 medical expert hired terminal tumor from a man with a broken arm because his arm is broken. tion—as arguments against dam removal. This is like refusing to remove a salmon lovers all along-ocean conditions, overfishing, habitat degradachampion. Suddenly, NMFS began to raise "other threats" known to hysteria was expected) but by the salmon's Endangered Species Act be squelched, falsified, and politically spun not just by the far right (whose was time to act. What happened instead? The PATH conclusions began to Times: "The salmon involves our whole way of doing things. There is no lung cancer. . . . There is no agreement among the authorities regarding Salmon lovers were ecstatic. After thirty years of federal indecision, it

"This may help to thicken other proofs that do demonstrate thinly," hispers Iago.

Dangerous and superfluous dams are being removed all over

America—465 of them as of January 2000, with many more scheduled to go. And when dams go, anadromous fish return. On Butte Creek, a Sacramento River tributary, dam removal has helped turn a 1987 chinook run of fourteen fish into a 1998 run of 20,000. The pre-dam Snake system produced great salmon and steelhead runs in the 1960s despite the Columbia dams. The wild salmon of the Hanford Reach of the Columbia are thriving today, though they traverse the same four Columbia dams as the vanishing salmon of Idaho: the sole, quantifiable difference between prolific life and annihilation: the four Snake River dams. Yet NMFS is using R.J. Reynolds—style public-relations gimnicks to subvert their own best science and defend the dams. It's as if the Marsh Decision and the PATH study never took place. Wild salmon have no Endangered Species Act champion; they have an Iago.

"My lord," wheedles Iago. "I would I might entreat your honour to scan this thing no further. Leave it to time."

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removing the fish from their river completely, ceding the river to its tiously "saves" migrating smolts from turbines and slackwater-by expense—\$3.5 billion as of fall, 2000—the NMFS/Corps team ostentatransport" barging and trucking programs. At mind-boggling taxpayer a disoriented-smolt feast. NMFS then solemnly counts the dead 2 perwhile, down in the river, an unphotographable horde of predators awaits of slackwater industry officials and media stand cheering on the bank of what planet they're now on—below Bonneville Dam, where a crowd plywood for three hundred miles, and dumping them—with no notion whirligig "bypass systems" that disorient like Disney rides, sluicing them (often fatally) in the name of research, shooting them through multimillion-dollar Inspector Gadget gizmos, handling and tagging industrial abusers, trapping fragile smolts at every Snake River dam in cent left floating in its state-of-the-art, taxpayer-duping barges, defies them into overcrowded trucks and barges, shipping them like coal or which they dare swear peculiar," says Iago. "Patience!, or I shall say you're cess." ("There's millions now alive that nightly lie in those improper beds "saved fish," and proclaims their transport program "a 98 percent sucthat later "mysteriously disappear," calls their barged and dumped fish biologist by refusing to factor in the 40 to 60 percent of barged smolts the science of every salmon-loving state, Indian, and nongovernment all in a spleen. . . . ") Iago is a subtle betrayer. Consider the famous "juvenile salmon

NMFS's "scientific" defense of its barging program is salmonbetraying drivel. NMFS's spokespersons continue to claim that

not come close to matching the success of migrating smolts that are simply left NMFS" Columbia/Snake fish-passage study we have, that barging does dam problem," yet it has been proven repeatedly, by every "nonbecause of their \$3.5 billion transport program they have "fixed the in the river to deal with the eight killing dams and slackwaters unassisted port is an unmitigated disaster. The smolt-to-adult return range the ocean to spawn in home streams. By this measure, juvenile transmeasure of recovery is the number of adult salmon that return from Even Commerce Department biologists know that the only meaningful needed for salmon recovery is 2 to 6 percent. The average adult return money-wasting balderdash. Congress and the White House continue to fund this anti-scientific, Iago just spins the statistics of failure, says "let's study it further"—and this kind of "success" rate are fired. In the federal world, the ESA's under NMFS is a dismal 0.25 percent. In the real world, employees with

of a dam. We the people spent \$22 million on it. Yet by deliberate scrambling pseudoscientific and engineering jargon as thick as the wall environmental-impact analysis of the Snake River dams. This report was assumes salmon migration is one way, not a round-trip! The study also nile salmon. Twenty-two million dollars for a "scientific" study that literally three feet thick: thousands of pages of charts, graphs, and brainmillion-per-annum net loss-and even this loss has been proven spebenefit of breaching the dams; it mentions only an estimated \$300makes no mention of the estimated annual \$2.6-billion net economic dams destroy 40 percent of returning adult salmon. It only examined juve-NMFS/Corps decision, this study did not examine the fact that the four cious. (See "Dam Breaching Myths" by economist Ed Whitelaw, Oregon workers in the few counties in which dam-influenced jobs exist. Yet, number of people so affected amount to just one of every five hundred the next one hundred years! The Corps also neglects to mention that the due to breaching will never find a new job, and will remain unemployed for nomic loss by predicting that every person who becomes unemployed Quarterly, Autumn 2000.) The Corps' study calculates long-range ecocalculatedly incomplete, dam-worshiping, specious techno-propaganda under NMFS's "endangered salmon stewardship," this three-foot-thick which the recent federal decision to delay breaching is based. now the chief body of "scientific" and "economic" literature upor In spring 1999, the NMFS/Corps team released yet another "new"

of American Rivers rolled in a hand truck stacked five feet high with pre At a March 2000 Corps "salmon hearing" in Seattle, Rob Masonis

> slopes that purify those streams, return the worse-than-clearcut seas some of the stolen rivers in which they evolve, return the clearcut forest that federal officials stop "studying" and act. I couldn't agree more vious NMFS/Corps Columbia/Snake salmon studies and demanded industrialists and their political and scientific minions loathe it. So they that once sheltered and fed them-solutions so obvious that American "Nature hates what it hates." To create more salmon, we must return now passes as federal science. spawned and spun, Phillip Morris-style NMFS/Corps propaganda that its brains out, and bury it deep with the advance-degreed, politically rustle up "salmon task forces," kick it around a few more decades, kick

evolved and still thrive is not "fish bypass system," "smolt-deflecting kidnap victims. The name of the living vessel in which wild salmon vented from migrating, they are no longer migratory creatures: they're ditches, and run it out over alkali. When migratory greatures are preprayerful human yearning, diverted it into a thousand word-filled salmon whose fate they now control. thing the NMFS/Corps team is willing to give to the endangered diversionary strobe light," or "barge." It is River. And this is the last The babble of "salmon management" rhetoric has taken a river of

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## Salmon Theology Biblical Mandate

ment, The Columbia River Watershed: Realities and Possibilities, defined west bishops of the Catholic Church, who, in an unprecedented docu-In 1999 the salmon's defenders were powerfully joined by the Norththe Columbia and Snake Rivers as "a sacred commons," "created by salmon and trout who are God's creatures and share the commons communities provided by all commercial fishers, [and] respect for the watershed, the economic benefits of jobs and property taxes for wide solutions that take into account "the needs of native peoples of on the greed and politics of power." They call for holistic, watershedbishops argue against "arbitrary policies and practices based primarily God," to be shared and lovingly cared for by all. In this document the

the tribes: it is impossible for individuals or governments to comprehend, effectively analyze, or defend a living holiness from a purely quantitative point of view. Federal government has lost all sight of this. A crucial value the bishops bring to the table, in corroboration of

salmon are causing wheat bargers and beer-can manufacturers, is no of a ten-millennium spiritual tradition—on a par with the annoyance manent loss of a fundamental biological component—or the tribes' loss Earth. Any analysis that places a 260,000-square-mile watershed's perprocesses that required millions of years to establish themselves upon making decisions that annihilate God-given gifts and biological Politicians with two- and four-year dispensations of plenary powers are analysis at all. It's a reasoning so reductive it vivisects. Yet it is federal

such a loss, the federal failure to consider religious and moral roots is self-sacrifice in migration is a literal and symbolic magnificence. Their whose living bodies bring far-reaching blessings to a watershed. Their tual gift, so their loss is first and foremost a spiritual loss. In the face of with ultimate questions. Their hounding from existence puts us in flesh is one of Earth's perfect foods. Their existence puts us in touch the sublime Creativity that has given us wild salmon is celebrated in recalled their own. On the very first page of the Bible, for instance, that establish the sacredness of this species. It's time non-Indians more than remiss. Indians aren't the only people with ancient stories touch with ultimate consequences. They are, first and foremost, a spiri-Wild salmon are not economic units. They are transrational beings

heaven. And God created great whales, and every living creature that that hath life, and fowl that may fly above the earth in the open firmament of And God said, Let the waters bring forth abundantly the moving creature moveth, which the waters brought forth abundantly, after their kind, and blessed them, saying, Be fruitful, and multiply, and fill the waters in the seas. every winged fowl after his kind: and God saw that it was good. And God

giving Creator. In the Northwest there is no more moving evidence of ment of a people. The bounty of Creation is daily evidence of a living, to fill the sea is the repudiation of a divine gift and spiritual impoverish-The annihilation of creatures whom God created, blessed, and ordered preservation of salmon is not just American law; it is biblical mandate. experience, I can say that the sight of these massive ocean travelers in a such giving than a huge, healthy run of salmon. Speaking from lifelong clear flow before me, hundreds of miles inland, thousands of feet above the sea, is a literal answer to unspoken prayer. Words aren't needed in Who can read this and not see that, for believers at least, the

> Genesis blessing, the moving creature that hath life. the presence of such an answer. There it swims in the water before me:

glib operation of four unneeded Cold War dams, is this literal answer to promised to all people by Moses' beloved God. ticians are treating as a two-party rhetorical bauble is a holiness reach is the awe, faith, and gratitude that such gifts inspire. What poliprayer. What we are removing from every future generation's intuitive What we are stealing from our children and their children, via the

## Salmon Fishes, Theology II: Cattle and Dominion

defender's, anti-salmon industrialist's, and bigot's favorite verse: "And passage, with its totalitarian-sounding D-word, as an excuse for everyway generations of self-styled Christian lords of the land have used this earth. . . ." What clear-eyed reader of American history hasn't seen the of the sea, and over the fowl of the air, and over the cattle, and over all the God said, Let us make man in our image . . . to have dominion over the fish On the same page of the Bible I keep quoting sits every damthing from the morally exultant enslavement of Africans to the murder status-quo slaughter of salmon? This passage, many honestly believe, is and robbery of Indians to the mass eradication of buffalo to today's ture along with them. Yet no interpretation of the ominous D-word biblical justification for the annihilation of salmon, and of Indian culcould be further from biblical truth:

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dreds of Bible passages. In Genesis, men and women are made in the ply means "rule"—and the nature of this rule is fine-tuned by hunkeep it." In Exodus, the Sabbath rest is given to animals as well as ability to multiply, and Adam is placed in Eden merely "to dress it and image of the God who just created and blessed all creatures and their are but aliens who have become my tenants." In Deuteronomy, when fully and not treat it as a possession, because "the land is mine, and you humans. In Leviticus, humans are told by God to tend the land caremay take eggs from a nest we find in the wild, but must leave both birds a desert river flowing out to the sea, healing all it touches, "and there gives to his people, as a permanent component of the Promised Land, and nest intact, that they might replenish their kind. In Ezekiel, God the harvest of wild stocks such as salmon is discussed, we're told we shall be a very great multitude of fish, because these waters shall come The Hebrew word translated as "dominion" is radah, which sim-

fish shall be according to their kinds, as the fish of the great sea, exceeding many. . . . And ye shall inherit it, one as well as another. . . . This land shall come to pass, that the fishers shall stand upon it  $\dots$  to spread forth nets; their hither . . . and every thing shall live whither the river cometh. And it shall voiceless, the disinherited, the prostituted, the poor, and all other by supreme sensitivity toward the meek, the weak, birds, field lilies, the ing in a salmonlike act of self-sacrifice, and characterized throughout earth as it is in heaven": a leader who lives a life of "kingship" culminatfisherfolk and a leader who defines "dominion" as "Thy will be done, on fall unto you."Then in the Gospels we meet, in Jesus, a lifelong friend to ridiculous to have to say it, but there is no way to rule a subject that you that allows the status-quo obliteration of an invaluable species. It seems forms of life. There is, in short, no such biblical thing as a "dominion" have driven into nonexistence.

"blessed" by God. I would ask ranchers to consider this. I'm a lifelong "dominion" passage, is the mention of "fishes" and "cattle" as equally nate their prize bulls, brood cows, entire herds, for any reason under of their livestock into irrevocable extinction? How many would tolerate them. How many ranchers aspire to a "dominion" that would drive all as deeply to heart as cattlemen do. Consider the two species. Transpose esis blesses "fishes" in the same breath as "cattle," I take that blessing fisherman—same as any rancher is a cattleman. When the God of Genhydropower at the cost of all your cattle for all time," or "a subsidized the sun? What cattleman would say yes to an offer of "unneeded barging scam for Lewiston at the cost of all your cattle for all time"? federal "dominion" that allowed outsiders to come in and extermi-Something far more interesting to me, in that same abused

stock is the life's blood of the entire ranching enterprise. So why is the stocks that are the life's blood of our fishing enterprises and tribal cultures? same inalienable right to exist not being extended to the diverse wild salmon These questions are insane. The sustainable health of diverse live-

excludes our federal government, it is a dark day indeed. If there is any destruction of all of the same vast region's cows—and if that rationality destruction of the lower forty-eight's last great genetic cache of wild point upon which even theologians agree (I phoned two Baptists, two inland salmon is just as unconscionable as would be the permanent esis account of Creation was set down to guide humanity for all time, that it contains, so to speak, both our ultimate set of fishing regulations Catholics, and a Methodist to quintuple-check this), it is that the Gen-I trust any rational soul on Earth to see that the permanent

> instruction to humankind is to help salmon be fruitful, multiply, and fill and our ultimate manual of viable dam operation, and that its eternal ful harvest, and other uses of the waters including dams. But not at the of few acts more anti-biblical, more Luciferian in grandeur, than the cost of a species' ability to multiply. Not at the cost of extinction. I can think the waters in the seas. And yes, our radah mandates and celebrates gratepermanent, man-made negation of God's Genesis blessings to Earth

# Another Forgotten Treasur

the way, Fryxell was committing the archaeologically indelicate but inundation by Lower Monumental Dam. Knowing slackwater was on Fryxell visited the banks of the free-flowing Snake, shortly before its In the summer of 1965, a Washington State geologist named Roald Mazama's eruption 6,700 years ago, a group of ancient bones. rubble and discovered, several feet below the ash line created by Mount expedient investigation method of walking along the riparian behind a Beneath a basaltic overhang, Fryxell looked down in the bulldozed bulldozer driven by one Roland Marmes, the property's owner.

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secutive human use of the basalt overhang for ten millennia. In one ica, they overlay remains of evidence, resting layer upon layer, of cononly were these the oldest human remains ever found in North Amer-11,000 years old. The discovery stunned the archaeological world. Not continent, ever: extensive remnants of a hundred consecutive centuries of small area—condensed and well preserved—Roald Fryxell and Roland Marmes had unearthed one of the great archaeological finds on any The bones were human—and turned out to be between 9,000 and

cluding handmade blades sharper than modern surgeon's scalpels; a lous artifacts: animal bones from as far away as the Arctic; tools, inwithin months. A Fryxell-led crew soon discovered hundreds of fabupiecing together unprecedented information about how these river perhaps the oldest ever found; more human remains. Scientists began treasury of ancient weapons; a perfectly preserved sewing needle, people hunted and lived, what they ate, how ten millennia of climate with hand trowels, tiny brushes, dental picks. A wealth of priceless artithe team dug and sifted, removing 5,000 cubic yards of dirt, much of it changes affected regional flora, fauna, and human culture. For two years The "Marmes Rockshelter," as it was dubbed, was world-renowned

facts continued to be unearthed. The archaeologists needed time. And like the salmon, they didn't have it. The Corps of Engineers' inundation of the riparian behind Lower Monumental Dam remained on schedule—ironically, to "protect" migrating salmon.

Because the Marmes Rockshelter was by then famous, President Lyndon Johnson approved federal funding enabling the Corps to build a levy around the site. In February 1968, they began to fill the reservoir. The levy sprang leaks. Water burst into the Rockshelter at 45,000 gallons a minute. Giant pumps were put in place, but failed to expel the flood. The reservoir was temporarily lowered. Fryxell's crew was allowed to cover the Marmes site with sheets of plastic, and to anchor the plastic with dump-truck loads of dirt. The Corps then ordered the area evacuated, and archaeologists watched forty feet of water bury what remains one of the great prehistoric sites in North America. And Marmes was not the only such Snake River site—only the most studied. Strawberry Island, Alpowa, Davis Bar, Windust Caves, Thorn Thicket, Wawawai, Squirt Cave, Granite Point, Three Springs Bar, and other sites await the tribes when the dams go.

who seemed to possess Caucasian facial structure. "Kennewick Man," some 9,000 years before Europeans were supposed to have arrived, yet Kennewick, Washington—a man who apparently lived in the Northwest covered the skeleton of a man on the banks of the Columbia near mind-bending contradiction! Scientists and journalists descended on year-old Sinatra. An indigenous North American white guy! What a he was dubbed. And the sensation he caused brings to mind the thirtyantiquities laws guaranteeing their right to rebury all such bones, they began to brew. And when the tribes begged to differ, invoking federal here first!" at Indian tribes. Specious books, harebrained doctoral thrilled by K-Man's honkizoidal cranium, began chanting "We were National Geographic, and Hustler weighed in. A confederacy of bigots. the bones like fleas and flies. Magazines as varied as The New Yorker, were ordered to leave the disturbed remains to (white) scientists theses, and prehistoric fantasy films starring the likes of Brendan Frazier A distressing study in contrast: In 1995 the Corps of Engineers dis-

Is there a discernible direction here? Unneeded dams standing, salmon species extirpated, railroads abandoned, smolts kidnapped in barges, the fishing sites, homes, burial grounds, art, and evidence of an elegant Indian culture drowned from Celilo Falls to the Rockshelter, while we break our own laws to exaggerate the bones of the lone possi-

ble prehistoric White Boy? The bias here is so concerted, it reminds me of the Taliban's recent destruction of the pre-Islamic art of Afghanistan. And, valuable as the Snake River archaeological troves are, they're a mere aside to this grim story. Placing ancient artifacts aside and racial, biological, economic, and religious issues front and center: the ongoing operation of the Snake River dams is one of the most overtly racist projects funded by our own, or any, modern government.

# Kamiakan's Lip and the Coming Lawsuit

Four dams created by Cold War paranoia and sustained by a subsidy-addicted few are wiping out the sacramental fish, sustainable economy, and ancient religion and culture of the Northwest's sovereign tribes for the sake of no industrial good, service, or commodity that can't be replaced by profitable and sustainable equivalents. To add insult to injury, the tribes are now so hated in right-wing circles for standing faithfully by salmon that they are being publicly accused—by the PR flacks of slackwater industry—of bringing about salmon demise by simply exercising their treaty-guaranteed right to fish.

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Northwest Indians catch and eat salmon for two reasons. The first is the reason that cattleman eat cattle: it's who they are, what they do, and what they have. The second is the reason that Catholic celebrants eat bread and wine at Mass: Northwest Indians are the humans for whom the grateful catching and eating of salmon was a sacrament centuries before the birth of Christ. The Columbia and Snake rivers are the Indians' place of worship, their "church." Salmon-killing government and industry are simultaneously destroying the tribes' place of worship and vilifing the tribes for still worshiping.

Under the Marsh decision, the Umatilla, Warm Springs, Yakama, and Nez Perce people, represented by the Columbia River Intertribal Fish Commission (CRITFC), became fully empowered participants in the scientific and managerial struggle to save endangered salmon. But NMFS has given CRITFC's calm, clear voices no more weight than the calm, clear voices of blacks were given in the courts of Alabama in the 1950s—and for the same reason: the four dams on the Snake are like four whites-only drinking fountains. Their life-giving, job-generating flow is being illegally stolen from Indians and salmon and converted into dollars reserved for Anglo industrialists. If this is

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of people while deliberately impoverishing another. River economic and cultural apartheid is carefully enriching one race not federally defended racism, I don't know what is. Columbia/Snake

and give their worldview legal weight even when that view feels a little foreign? The tribes' openly expressed appreciation of salmon as fellow Shouldn't it mean that we listen with respect when tribal leaders speak, itics. So back we go to special-interest-serving, negative-campaigning for salmon as sister and brother beings as "Neolithic" and "irrelevant"? Mass. Isn't it racist, in management venues, to write off the tribes' regard than-fellow creatures—until we remember the wine and blood of the beings, for instance, feels a little odd to those who prefer to consume lessby men and women whose common sense and open spirituality move us lack of faith in our politics. The tribes, meanwhile, are often decisively led We lament a crisis in American leadership and express near-ubiquitous if not to genuine idealists? mealy-mouthed "leaders." Where can we turn for a rejuvenation of ideals Yet we consider it credulous to incorporate such spirituality into our polthe Yakama, Umatilla, Warm Springs, and Nez Pérce peoplei What should it mean to be "co-managing" the river and its salmon

graph on universal values drawn from the traditional sciences of the ful non sequitur. She mailed me a John Corsiglia/Gloria Snively monoplight and surrounding thicket of politics. Her response was a wonder-Elizabeth Woody, learned that I was writing of the inland West salmon's world's long-resident indigenous peoples. Here are four of those ancient values: Last summer a scholarly Warm Springs Indian friend, the poet

- 1. Humans and nature are inseparably linked in a universe pervaded by thus intrinsically valuable and interdependent; we are all relations. consciousness; spiritual essence suffuses all forms; all life forms are
- 2. Animal souls survive and are reborn; animals are social beings, with thoughts and feelings, and must be treated with respect; respecting an allowing it to reproduce in sustainable numbers; all creatures can be animal means honoring its spirit, using every part of its body, and see ourselves as superior our teachers; though we may readily affect other life-forms, we needn't
- . All natural and supernatural objects have power to harm or help humans; it is not only wrong but spiritually dangerous to wantonly destroy or take more than one's share of other life forms; justice is

inescapable light of justice. unavoidable; wrongs are not so much 'punished' as brought before the

4. Spiritual essence persists while forms change; all humans return to than shameful actions. always becomes known; there are no secrets; death is less to be feared face their mistakes, in this life or the next; the truth of situations

was not in keeping with these values. I'd wager that thousands of Amer-Columbia River Intertribal Fish Commision salmon spokesperson that which all mankind has existed since the beginning of time." sacred beings who created and authored the perfect laws of nature by this land, hope and pray that the pen you wield will be guided by the Clinton, at the 1992 Timber Summit: "American Indians, natives to icans still remember the words of CRITFC's Ted Strong, to President After years of listening, I haven't heard a public word from a

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the Reagan-era failed-nuclear-plant debacle we Northwesterners call need to slaughter smolts in order to service a \$7-billion debt caused by the "threat" salmon pose to subsidy arrangements, or to the BPA's NMFS, or to an Idaho far right that mandates extinction because of hundreds of towns, my heart feels like a smolt barged and dumped into that is bringing extinction to a hundred rivers and economic harm to "WHOOPS," or to the barging scam of a railroad-refusing Idaho town God knows what caustic flux and moral vacuum When I compare such guiding principles to the Iagoan ploys of

make between what is sacred (the health and wholeness of life) and what is profane (the worship of wealth at all cost), not just according to first: we have, in the Columbia/Snake region, a clear and dire choice to the Appendix to this book.) Indians, but according to all the world's major religious traditions. (See It's time Americans listened to the tribes, for two reasons. The

all those to which I've already refered. A powerful legal document as Indian lands, languages, and lifeways were being ripped away. This is scrap tossed to the tribes by an inadequately shamed U.S. government are not something "given" to Indians, like welfare. They are a tableand accustomed places" throughout the Northwest. Those privileges time. Among those rights are hunting and fishing privileges in "usual known as the treaty grants sovereign rights to native peoples for all why, when I hear highly paid, posturing corporate flacks inciting the The second reason to listen: dire financial repurcussions, besides

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dripped blood from biting it in the effort to contain his helpless rage. chief of the Yakama, signed the 1855 treaty that ceded his tribe's lands men, women, and children and against their will. When Kamiakan, were given hunting and fishing "privileges" over the  $\not$ dead bodies of larly heinous circle of hell reserved for malicious slanderers. The tribes Indian fishing, I open Dante to enjoy his descriptions of the particumeat-and-potatoes public by saying the cause of salmon decline is been one good day to be an 1855 treaty Indian." admirable restraint I couldn't share, "From 1855 till now, there has not And as CRITFC's Chuck Hudson told me in October 1999, with an in perpetuity in exchange for fishing and hunting "privileges," his lip

and negated. Many "usual and accustomed places" are on private land, SoHappy's courageous legal battle and its famous result: the Boldt their "guaranteed" right to catch them (witness the fisherman David often nothing to fish for. When there are fish, Indians have to fight for with legal access illegally denied. When access isn't denied, there's to ask white irrigators to leave water in those rivers. And now the fedhave a right to fish in usual and accustomed rivers, they have no right by dams. A court in Idaho recently ruled that though the Nez Perce under slackwater. Thousands more have been sterilized of their salmon Decision). Many "usual and accustomed" fishing sites are now buried ernment murders smolts by the millions in its dams and barges in viotribal ceremonial fishery "to protect the salmon"—while the same goveral government threatens to outlaw even the last Columbia/Snake own taxpayer-funded science, and its own binding treaties. lation of its own Clean Water Act, its own Endangered Species Act, its For a century and a half, 1855 treaty rights have been dishonored

when sovereign rights and viable recovery strategies are ignored again and patient. They seek the return of their sacred fish, not court battles. But of America." The right to fish for ghosts of salmon is hardly just recomagain, Indians are left no choice but to litigate. And in treaty-inspired legal tion, we the people will be sued for treaty violation, and the settlement will the ESA by allowing a coterie of industrialists to drive salmon into extinc-"river management" racism. If NMFS continues to make a mockery of not nature's doing; it is being inflicted on Indians by state and federal pense for "a significant portion of America." The extinction of salmon is John McCain puts it, "were written in exchange for a significant portion damn well should be. Indian treaties, as even the conservative senator wars, they haven't lost a major battle yet. Treaty rights are potent and In the fight to preserve the salmon, the tribes have been heroically

> heard methods of analysis that double that figure. be huge: \$10 to \$20 billion, even according to NMFS estimates—and I've

Snake River dams should be posted daily—in the nation's financial pages. We're well on our way to paying it. The dwindling fish counts

### Second Coming Prayer for the Salmon's

horrifies the far right: ture. So let's envision, for a moment, the restoration process that so salmon-loving scientists, and the spiritual foundations of our own culries, and NMFS; sooner if we heed the tribes, the Northwest bishops, inevitable—later if we heed slackwater rhetoricians, subsidy beneficiaare rapidly on the way. The removal of the four Snake River dams is Every dam on Earth has a life span, and sustainable forms of energy

neering piece of cake. The revegetation of the drained reservoirs, sites will be hard work, but will create thousands of jobs. As for the removal of silt, and rebuilding of riparian communities and recreation the four dams—according to the men who built them—will be an engiof their multibillion-dollar Endangered Species Act burden. Breaching financially troubled Bonneville Power Administration by relieving them without electricity for even a minute, and will soon strengthen the the region's hydropower, will not cause a single home or business to go feared changes: breaching the four dams will not touch 96.5 percent of it will help the thousands of farmers, ranchers, and reservoir recsingle cattle rancher, southern Idaho potato grower, or farmer. Indeed, dalously monomanical barging operation. Breaching will not harm a security," and no industry save an immediately replaceable, scanwill cost us no irrigation, no flood control, no needed energy, no "national order to flush endangered smolts through the four Snake River slackstored irrigation and recreational waters, right before the hot season, in Endangered Species Act, must now squander massive amounts of reationists and merchants throughout the region, who, under the Once federal approval is given, removing the earthen portion of

ing almost all farm to the north and west of Lewiston-nowhere near the Snake River. Those growers, sans dams, will simply begin moving instead of to barges southeast at Lewiston. A glance at a map reveals their grain south to barges at Pasco, Washington, by truck and train, The regional grain growers now dependent on Snake River barg-

will support increased grain-truck traffic. It's also worth noting that the salmon, and the lightly traveled new four-lane freeway (U.S. 395) that both the shockingly small distance that has wiped out the region's the Snake River dams when barging forced the abandonment of their towns that once served the grain growers were economically harmed by before the dams. Breaching would restore to those towns the vitality they possessed rail lines, grain elevators, and the commerce stimulated by both.

transform a failed Portland-wannabe into the revamped, world-class of America from this multibillion-dollar boondoggle of a "seaport" and lows of Lewiston, Idaho's worst minds, breaching will protect the rest jobs instead. and Iagoan scientists out of work, creating tens of thousands of real outdoor recreation and sportfishing destination it should have been all hundreds of bureacrats, "salmon managers," political propagandists, along. Over more agonized bellows, Snake River breaching will put There will be some employment changes: over the agonized bel-

paragon wild genius salmon; it will honor treaties and racial diversity long-term genetic health of all Pacific salmon by protecting Idaho's billion-dollar-a-year commercial fishing industry, will put tens of thouand preserve our continent's oldest sacred culture; it will create a halfattract tourists, fly-rodders, kayakers, birders, botanists, Lewis and every riverside town and coastal fishing port in the process; it will flowing waters of Idaho, Oregon, and Washington, and will enliven sands of sportfishing men, women, and children back on the freemothballed dam remnants, study the returning plants, birds, and Clark buffs, and rubberneckers from all over the globe to ogle the salmon, a flood of health, income, marine nitrogen, and energy to huning of fall chinook; it will bring, in the form of an abundance of canyons, fish the newly revealed steelhead riffles, and watch the spawnride the seventy new whitewater rapids, hunt the newly revealed side wildlife, marvel at some of the world's most ancient tribal treasures, of hope, happiness, and gratitude to every riverine creature from dreds of Northwest biological and human communities, and a source insects to kids to angels, preserving not just our way but our very web Best and most crucial of all, Snake River breaching will protect the

given current, creates salmon, biological richness, and reverent culgiven salt, grows salty / we become our choices." The Columbia/Snake, The poet Jane Hirshfield writes: "As water, given sugar, sweetens /

> 96.5 percent of our electricity intact and the interior West's salmon extinction, and heartbreak. We become our choices. I pray there are tures; given Snake River dams, creates electricity, polarized rhetoric, ing symbol of generational sacrifice. Snake dams intact, but four Cold War dams gone, that our tribal and Snake hydroelectric dams still intact, 217 major (100 feet or taller) Columbial thriving; 96.5 percent of our electricity intact, 102 major Columbial leaders in Washington who will weigh this choice before we become it: fishing cultures may thrive and our rivers again burgeon with their liv-

have placed in our rivers and oceans are not holy, what is? If the first nation, to pretend we know better than humanity's most ancient and sacred laws? If the lives that God and His instruments, Sun and Ocean, and sockeye the waters brought forth, pronounced them good, and as sis is meant to be believed, God blessed the chinook, coho, steelhead, tion and dying sacrifice of salmon are not exemplary, what is? If Genepage of the Bible doesn't convey truth, what does? If the heroic migraable path to and from mountain birth-houses, we have four dams to a true radah, to restore to our fellow blessed creatures their indispens-"very good." To honor the Creator's gift to all generations, to embody they took their part in the panoply of creation, He upgraded that to unbuild in a hurry. Who are we, with our seventy-year life spans and 225-year-old

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member of one of the Columbia/Snake's many salmon tribes now stripped, by Cold War anachronisms and economic apartheid, of every last one of the creatures that so recently and beautifully defined them: To that end, a prayer: from my friend Sherman Alexie—registered

I release these salmon I release

I release my father and mother I release

I release my sister and brother I release

I release these salmon into their personal rivers

the river of bitter root the river of broken bone

the river of sweet smoke

the river of blood and salt the river of semen and sap

the river diverted the river dammed

I release these salmon I release

I release these salmon
I release

o, salmon, I release you o<sub>s</sub> salmon, I pray

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o, father and mother o, sister and brother

return to me

## 13. River Soldiers

In the beginning, on the volcanic cone back in Southeast Portland, there was nothing much going on. Dehydrated industrial Martians seemed to dominate the terrain completely. So I fastened the family hose to an azalea bush at the summit of a flower bed, turned on the faucet, created a little liturgical river (arka). And as a three-inch-tall blue plastic U.S. Cavalry dropout stood in that river, the stock of his upraised rifle converted into a fly rod, I lay on my belly, cheek to the ground, listening to the tiny current curling round his thighs, watching his line work, eyeing the bend in the tip of the rifle-rod, till on the best days the rod dipped and we actually hooked, in sunlit riffles, tiny sunglint fish.

Four decades later I live amid a web of sunlit, life-giving streams in Montana. And I relish my time on those streams. Yet I couldn't help but notice, while reflecting on existence one recent summer's day, that I was in fact glued to my writing desk in a Venetian-blinded study, ignoring streams and sunlight in order to fight for the whoknows-how-manyth time for the life of some river, creek, or salmonid