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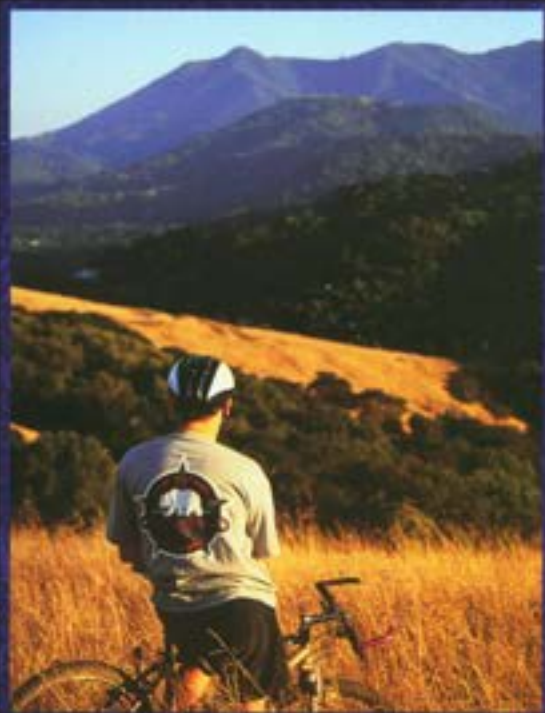
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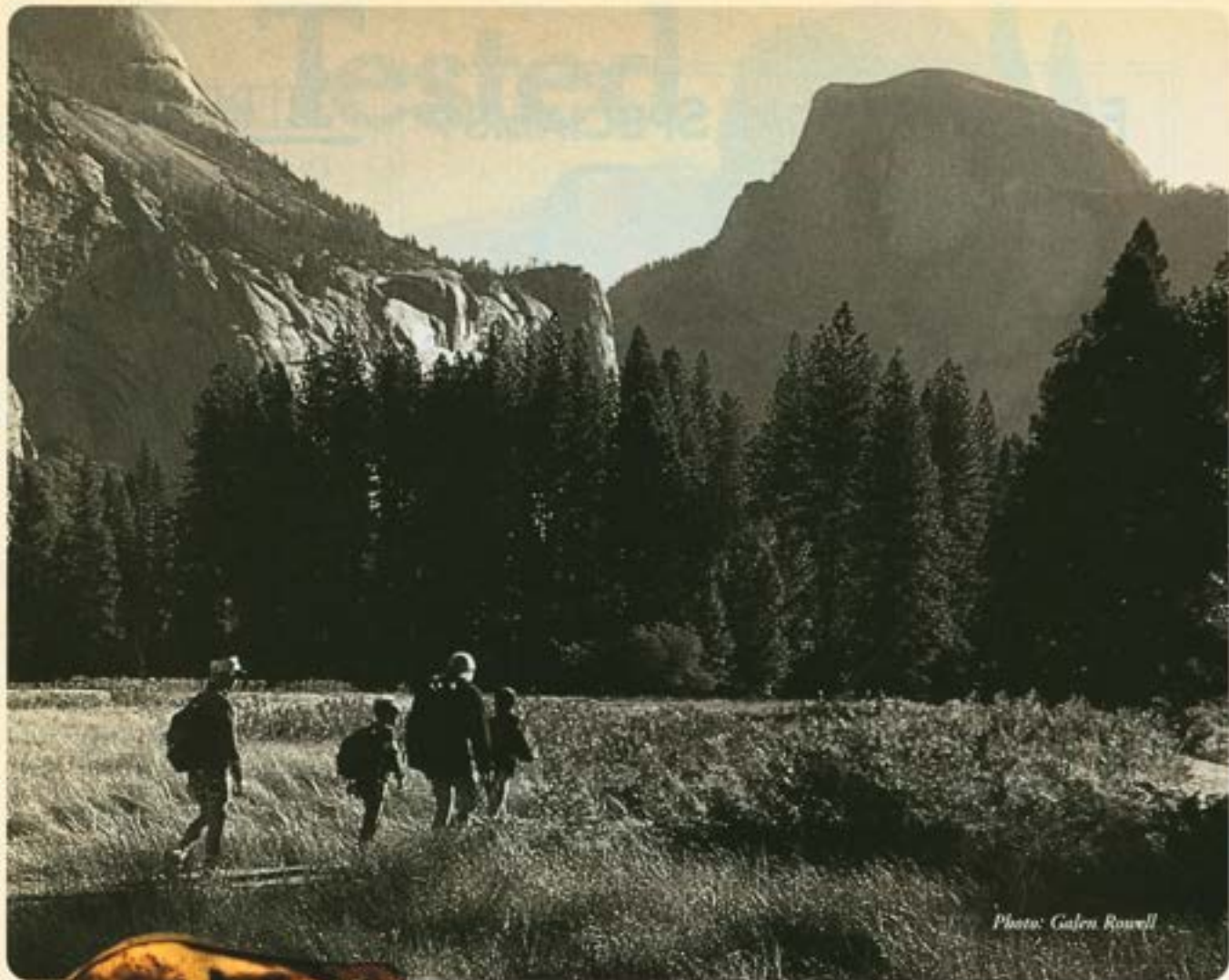


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PANDORA'S PARTNERS

Eric Coppolino's "Pandora's Poison" (September/October 1994) includes misleading and inaccurate accusations that leave readers with a false view of both the science of polychlorinated biphenyls (PCBs) and Monsanto's actions.

Monsanto acted responsibly in the manufacture of PCBs, and in the eventual phaseout of the product once evidence about its persistence in the environment was confirmed. In 1970, Monsanto widely communicated the newly recognized environmental concern and launched an immediate voluntary phaseout of all sales of PCB products for "open applications" that could lead to uncontrolled environmental release. Monsanto considered halting production of PCBs in the early 1970s, but no substitutes were commercially available for fire-resistant dielectric fluid. This dilemma was recognized in 1975 by EPA Administrator Russell Train, who cautioned that massive power disruption would occur if Monsanto were to cease production before suitable replacement fluids became available. Following assurances that replacement products were at hand, Monsanto voluntarily totally ceased production and sales of PCBs in 1977.

Allegations in the article that Monsanto knew about adverse health effects from exposure to PCBs since the 1930s and covered up the information are not true. Monsanto has never concealed any hazard of PCBs. The animal tests and other data referred to in the article were publicly known for decades and were considered in establishing handling guidelines for PCBs. Furthermore, the original study by Dr. Cecil K. Drinker, referenced in the article, was in fact published by the Harvard School of Public Health following its open presentation at a meeting attended by government representatives. Dr. Drinker himself said in 1937 that PCBs are safe and "operations employing them can easily be safeguarded." Drinker's further studies determined

that the chemical he originally believed to be causing liver effects in animals was not a PCB. In 1939, Dr. Drinker publicly stated that the PCB product he tested was only mildly toxic if inhaled over long periods of time.

Sierra claims that Monsanto falsified cancer research related to PCBs. This again is absolutely wrong. The actual interim study reports and tissue slides from the studies of Monsanto products, conducted by a then nationally recognized independent laboratory, were turned over to the government. The government has never challenged these PCB studies or indicated that Monsanto had done anything wrong.

Claims of "cover-ups" and "sacrificing 'life itself' to corporate profits" are untrue and out of touch with Monsanto's way of doing business.

*M. A. Pierle, Vice-President
Environment, Safety and Health
Monsanto Company
St. Louis, Missouri*

"Pandora's Poison" is an unfortunate example of an advocate ignoring facts in an attempt to further preconceived and unfounded theories. The claim of a 50-year conspiracy to keep information about PCBs from virtually everyone defies the reality of a long, public record of scientific investigation and communication. Unreported is Dr. Drinker's later research that exonerated PCBs from causing health effects in the workers he had studied.

PCBs have been among the most heavily scrutinized chemicals over the last two decades. None of the human epidemiological studies—including a number involving General Electric workers—establish any significant link between exposure to PCBs and serious illness or increased incidence of cancer.

General Electric acknowledges that there are issues regarding PCBs upon which reasonable minds may differ, but we maintain that our opinions are based on long occupational experience and the large body of public scientific

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literature—the same literature that “Pandora’s Poison” claims GE somehow suppressed.

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Eric Coppolino replies: Stark denies in the face of documented evidence to the contrary have been corporate policy at Monsanto and GE for decades. These letters are only the latest examples. While Monsanto says it “never concealed any hazard of PCBs,” neither it nor GE can yet bring themselves to admit any; Monsanto acted only “once evidence about the material’s persistence . . . was confirmed”—not because of any health risk. Note also that its “voluntary” cessation of sales and production came the year after PCBs were banned by the Toxic Substances Control Act of 1976.

Responsibility to warn the public begins not when a chemical is proven to be harmful, but when it is suspected to be so. That moment came in 1937 when Dr. Drinker found liver damage in rats exposed to Halowax, a product made with PCBs. By citing Drinker’s subsequent contradictory reports—which, it should be noted, are not part of the public record—GE and Monsanto try to have it both ways, suggesting here that the studies relieved them of the responsibility to inform the public, while maintaining in court—as recently as last October, in GE’s case—that the original Drinker study constituted notice that PCBs were toxic.

That the government never challenged Monsanto’s PCB tests at the notoriously corrupt IBT Lab is no more proof of their probity than it is of PCBs’ safety. GE’s Ramsey still doesn’t recognize any link between exposure to PCBs and serious illness. Both writers ignore the EPA’s reassessment of dioxin and PCBs (see “Elemental Enemy,” page 30), which concluded that adverse effects can be expected at or near current exposure levels—this thanks to companies that knew better but failed to act.

Sierra welcomes letters from readers in response to recently published articles. Letters may be edited due to limitations of space or in the interests of clarity. Write to us at 730 Polk Street, San Francisco, CA 94109; fax (415) 776-4868.

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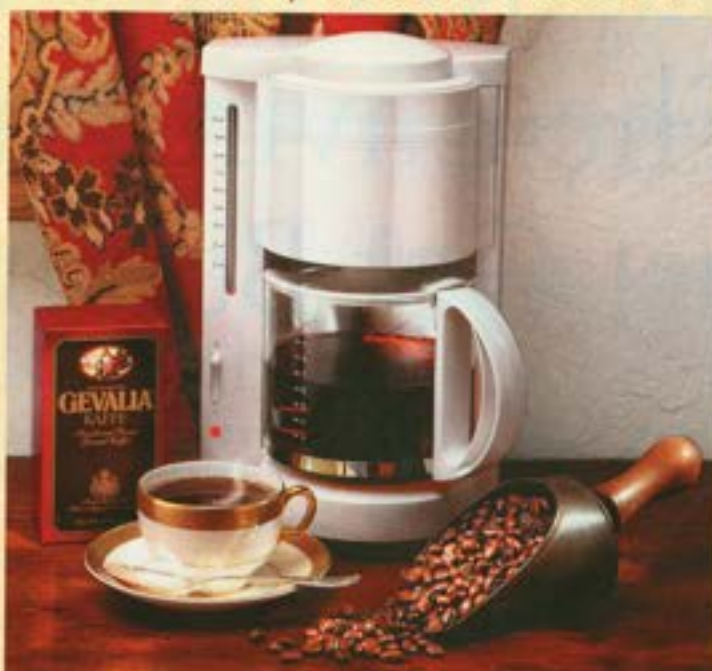
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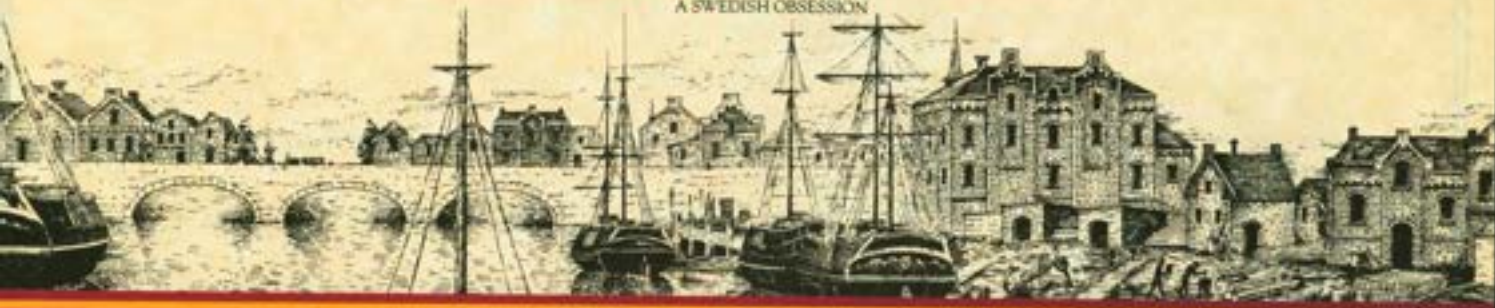
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1994 in Review

Across the Land, A Year to Remember

It wasn't the best of times. But notwithstanding the *Times* of Los Angeles—which dutifully, if prematurely, reported the death of environmentalism—1994 wasn't the worst of times, either.

What kind of year was '94, really? It was a year in which "wise users," riding high on public-relations populism, unwisely began to believe their press clippings, and were stopped in their tracks by a bona fide grassroots movement to protect and restore the Earth.

It was a year in which, having all but succumbed to the death-grip of gridlock, the 103rd Congress—the Earth-unfriendliest in a quarter-century—passed, in the closing minutes of the session, the California Desert Protection Act, a bill that protects more wilderness and parks in the lower 48 than any single measure since the 1964 Wilderness Act itself.

And it was a year in which, despite severe budget constraints, the Sierra Club showed its mettle not only by scoring that stunning conservation victory,

but by making strides toward becoming a leaner, greener fighting machine.

In short, 1994 was a long year, but one whose challenges the Sierra Club met with aplomb, enthusiasm, and continued effectiveness. Herewith, a sampling of Club activities:

- First and foremost, a Club-led campaign begun in the 1970s culminated in October with the passage by Congress, and the signing into law by President Clinton, of the 7-million-acre California Desert Protection Act. The White House signing ceremony was attended by Sierra Club volunteer and staff activists who had labored tirelessly for the bill's passage.

- Through the Sierra Club political program, activists in more than 40 states endorsed and campaigned for pro-environment candidates for the House and Senate, and scored a spectacular victory in Arizona by repealing a "takings" bill passed by the state legislature.

- A four-year legal battle ended in victory for the Sierra Club's Atlantic Chapter, which blocked an im-

continued on page 18



The California Desert Protection Act highlighted a year of Sierra Club accomplishment.

NANCY KITTLE

Congress Lurches to the Right

Although the environment was not a pivotal issue in November's elections—most of which turned on controversies over crime, immigration, taxes, and the role of government itself—the implications for the environment could be dramatic.

The new Republican Congress, Sierra Club leaders warn, is likely to be even more hostile to environmental laws than the recently adjourned, Democrat-controlled 103rd, widely regarded as the worst environmental Congress in a generation.

"This election was not a referendum on the environment," said Carl Pope, the Sierra Club's executive director. "Americans overwhelmingly favor environmental protection. They won't let clean air, safe water, public health, endangered species, and wilderness be sacrificed by either political party."

In Arizona—the one state that did hold a referendum on the environment—a resounding 60 percent of the electorate voted to reject Proposition 300, an anti-environmental "takings" measure previously approved by the state Legislature (November/December 1994 *Bulletin*). The so-called property-rights initiative would have jeopardized a broad range of environmental and public-health protections. Sierra Club activists played a crucial

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EDITORIAL

Clout: Use It or Lose It

Capitol Hill in 1994 was a graveyard for long-overdue reforms of basic environmental and public-lands laws, including the Clean Water Act, the Safe Drinking Water Act, Superfund, the Endangered Species Act, and of bills to reform the 1872 Mining Law and public-land grazing practices and fees.

The conventional media wisdom is that this poor record of accomplishment stems from the diminished clout of the environmental movement and the rising power of the "wise users." But the pundits' eagerness to declare the demise of conservationist clout and the emergence of a new, more powerful anti-environmental movement is misinformed. The so-called Wise Use Movement is failing, just as surely as its earlier version, the Sagebrush Rebellion, fizzled out in the 1980s.

While there is little joy in the environmental camp, there is downright dismay and frustration in the wise users' ranks at their inability to move their anti-environmental agenda.

■ The goal: Open the Arctic National Wildlife Refuge to oil-and-gas development. The result: Bills to mandate development have been soundly defeated by a coalition led by the Sierra Club, and were not even introduced in the last Congress.

■ The goal: Repeal or

weaken the Endangered Species Act. The result: Public polls indicate continued strong support for this law, and attempts to gut it have failed. Interior Secretary Bruce Babbitt is now promoting a program of protecting entire ecosystems.

■ The goal: Allow the harvest of ancient forests in the Pacific Northwest. The result: Conservationists mounted a national campaign and filed lawsuits that blocked most new cutting. President Clinton convened a Forest Conference that led to an 80-percent reduction in timber harvest levels on the west side of the Cascades.

■ The goal: Weaken the Clean Water Act. The result: Public support for strengthening the law, even if it costs more, remains high. The Bush-Quayle efforts to gut wetlands regulations have been rejected. Attempts to weaken the Clean Water Act have failed in Congress.

■ The goal: Block reform of the 1872 Mining Law. The result: The mining industry barely dodged a bullet as reform bills passed both the House and the Senate for the first time in 122 years.

■ The goal: Pass "takings" legislation at the federal and state levels to require compensation of developers whenever a government requires them to protect community values or public health and safety. The result: So far, significant takings bills have passed in

Our foes are dazed and confused by the wholesale failure of their agenda.



by Bruce Hamilton
Director of Conservation

only three states. One takings bill, passed in Arizona, was repealed in November by a Sierra Club-led citizen initiative.

■ The goal: Give ranchers more say over grazing on public lands so that grazing privileges become grazing property rights. The result: Rangeland reform was narrowly defeated by a Senate filibuster. Babbitt has moved to reform range management administratively.

■ The goal: Block the designation of any more wilderness or national parks, and open up existing parks and wilderness to commercial development. The result: Under intense pressure from the Sierra Club, Congress broke a series of filibusters and passed the California Desert Protection Act, the biggest wilderness-and-parks bill since the

Alaska Lands Act of 1980.

■ The goal: Prevent action to curb global warming. The result: The United States signed the Global Warming International Accords in Rio and has since pledged significant funds to implement them. Vice-President Gore has provided leadership to help craft a national Global Warming Action Plan. The White House has convened a joint industry-environmentalist panel to address the need for major increases in auto fuel economy—the single biggest step to curb global warming.

None of these measures is everything the Sierra Club wanted. Some of the preservation and reform efforts are woefully inadequate. But while we are digging in to build on these modest efforts, the Wise Use Movement is wondering what became of the army of angry citizens who were supposed to rise up to cast off 100 years of preservationist victories.

In this new, more hostile congressional climate, environmentalists will need to work even harder to move our agenda. The environmental movement can falter if enough good people refuse to take responsibility for the health of the planet. All it will take for the Wise Use Movement to prevail is for enough citizens to sit out environmental battles, and leave Congress and the statehouses to the pollution peddlers.

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Biodiversity Is Activist's Goal

by Amy Wilson

As a timber-industry insider, Tim Flynn approaches forest activism from an unusual perspective. Flynn, who lives in Emmet County, a sparsely populated corner of Michigan bordered by Lake Michigan on the west and Lake Huron on the east, is part-owner of a small retail lumber yard. He's also the conservation co-chair of the Sierra Club's Mackinac Chapter.

During the 1980s, Flynn says, the timber industry urged retailers to become more informed about the arguments of environmental "crazies." Flynn did so—and saw a lot of sense in environmentalists' concerns about the ecological effects of current logging practices.

"At work, I watched the quality of the wood go downhill," he remembers. "We were getting more lumber full of defects, warps, and knots. More and more material was unacceptable to customers and had to be discounted in order to sell it."

The 1986 takeover of California's Pacific Lumber Co. drove home to Flynn the reality that America's remaining ancient trees were flooding the timber market to pay off junk bonds. To ensure that the lumber he bought from wholesalers was not shorn from the slopes of old-growth forests, Flynn attempted to track

the exact origins of the wood. It was a fruitless endeavor.

Buying timber from local loggers who harvested trees sustainably would be the ideal long-term alternative, Flynn decided. But Michigan's forests were devastated during what he calls the "holocaust" of logging and logging-related fires that occurred there at the turn of the century.

Flynn turned to the Sierra Club. A member since 1980, it wasn't until he attended the annual meeting of the Mackinac Chapter in 1988 that he became an activist. He soon joined

Volunteer SPOTLIGHT



Tim Flynn

the Club's Michigan State Forest Committee and began working for recovery of state forests.

"Our goal is to get the timber industry to face the long-term consequences of destroying native biological diversity," he says.

The efforts of activists in

the region have been repeatedly frustrated, Flynn notes, because the state's natural-resources department is not accountable to the public. Finally, last June, activists secured an injunction against the agency's forest-management division over a pending clearcut of a grove of aspen trees in Mackinaw State Forest.

Another hopeful sign, says Flynn, is an old-growth-recovery amendment to the state forest plan that should soon be approved.

Flynn's activist work is driven by a vision of restoring what has been destroyed—and conserving what is left. "Conservation and efficiency in our use of wood products is the only way we can protect forests as intact, complex ecosystems," he says.

Member MEMO

Are Sierra Club window envelopes recyclable?

The envelopes used in all Sierra Club mailings are totally recyclable. The "windows" that many Club members have expressed concern about are not plastic but Glassine or Re-Cello, which are recyclable wood-pulp by-products.

Because these products are more expensive than plastic, it's been a struggle persuading envelope-makers to use them. The Sierra Club, however, is committed to spending a little

more to ensure that our mailings are as environmentally sound as possible. We continue to urge businesses to make these products available to their customers.

Sierra Club Standing Rule 4-4-1

Suspension or removal of a member shall occur only by action of the Board of Directors for good cause based upon actions inimical to the fundamental interests or functioning of the Club. The Secretary shall notify the member by registered mail at least 15 days preceding the date of the Board of Directors meet-

ing at which the suspension or removal will be considered. The member shall be provided an opportunity to respond to the charges and address the Board on these issues before final action on the question by the Board. The effective date of suspension or termination of a member shall be no earlier than five (5) days following the meeting of the Board at which the action is taken.

The membership of any Director cannot be suspended or canceled unless the Director has first been removed from office as provided for in Bylaw 5, paragraph 5.10.

Year in Review

(FROM PAGE 15)

mense coal-burning power plant from being built in rural New York State.

- Activists, many of whom have fought for more than 15 years to save Oregon's upper Klamath River, celebrated in September when Interior Secretary Babbitt declared it a federally protected wild river.
- In Virginia, Club activists waged a successful campaign to preserve the wild character of Mt. Pleasant's rugged mountains, clear streams, and old-growth forest. The Mt. Pleasant Scenic Area Act, signed into law by President Clinton, sets aside 7,580 acres in the George Washington National Forest for protection from logging, mining, drilling for oil and gas, and geothermal extraction.

Elections

(FROM PAGE 15)

leadership role in the measure's defeat.

Despite the environment's strong showing in Arizona, however, Club leaders expect the 104th Congress will pay little heed, listening instead to such champions of anti-environmental causes as Bob Dole, the next Senate majority leader, Newt Gingrich, the likely House speaker, and Alaska Representative Don Young, all of whom received perfect zeroes for their environmental-voting records in 1994.

- Cross-country cooperation between the Club's Mississippi and Colorado chapters helped turn back a hostile takeover of more than 100,000 acres of Mississippi's DeSoto National Forest by that state's National Guard, which wanted the site for tank maneuvers.
- Capping years of activist effort, a federal judge in Arizona, acting on a legal challenge by the Club's Grand Canyon Chapter and others, blocked construction of a large telescope on a mountaintop northeast of Tucson held sacred by Native Americans, and that provides habitat for a number of threatened and endangered species, including the Mount Graham red squirrel.
- Buffeted by opposition from environmentalists and other public-interest groups, the Walt Disney Corpora-



tion scrubbed its launch of a historical theme park on 3,000 acres near rural Haymarket, Virginia. The Club had joined with other local and national conservation groups, as well as historians and public-health organizations, to fight the mega-development.

- Sierra Club activists and the Sierra Club Legal Defense Fund protected San Francisco Bay through lawsuits to compel the U.S. Fish and

Wildlife Service to list the Delta smelt as a threatened species, which in turn forced the Environmental Protection Agency to issue water-quality standards for the bay under the Clean Water Act.

- Sierra Club volunteers in Idaho, Oregon, and Nevada combined to derail—for now—a proposed bombing range in the Owyhee Canyonlands. In response to a Club lawsuit, a federal magistrate ruled in October that the U.S. Air Force had failed to file an adequate environmental-impact statement for the plan.
- A delegation of Sierra Club volunteers and staff trekked to Cairo for the International Conference on Population and Development. Participants in the conference agreed to boost spending for family planning and reproductive-health services to about \$17 billion—more than triple current spending levels—by the year 2000.

■ Finally, the first phase of Project Renewal, the Club's restructuring effort, was approved by the Board of Directors in September. The Board took steps to streamline the Club's volunteer committee structure, expand activist participation in core conservation campaigns, and cut 1995 expenditures \$3.7 million below 1994 levels. The changes, said President J. Robert Cox, make the Sierra Club "stronger and more financially stable" as it moves through 1995, which—given November's election results—is certain to be every bit as challenging as 1994 has been.

From his perch as probable chair of the Natural Resources Committee, Young will be well-positioned to block new national-park and wilderness bills.

Sierra Club activists endorsed more than 200 candidates for the House and Senate in this year's elections. About 60 percent of Club-endorsed congressional candidates won their races. Candidates who managed, amid the mud-slinging, to make the environment a campaign issue—notably Senators Frank Lautenberg (D-N.J.), Jim Jeffords (R-Vt.), John Chafee

(R-R.I.), and Dianne Feinstein (D-Calif.)—rode to election-day victory.

"Republican leaders may think they have a mandate to dismantle this nation's environmental and public-health laws," said Pope. "But the Sierra Club stands ready to defend the environment, and the vast majority of Americans are on our side.

"Our job in the next two years is to make sure the American public communicates clearly and vociferously to both Congress and the Clinton administration its unwavering support for environmental protection."



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Carl Pope

Minority Rule

Dateline Washington, D.C.: "The 103rd Congress has adjourned, leaving behind a solid environmental record. Highlights of the extraordinarily productive session included fundamental changes to grazing rules on federal lands, overhaul of the Mining Law of 1872, reform of Superfund, enactment of a carbon tax, reauthorization of the Safe Drinking Water Act, reform of the National Parks concession system, and passage of landmark legislation to protect Colorado wilderness and the California Desert."

News from an alternate universe? Yes and no. In reality, only the Colorado Wilderness and California Desert Protection acts made it to President Clinton's desk. And yet, solid majorities of both the House and the Senate were prepared to vote for every piece of environmental legislation listed in the imaginary press account above. In spite of this, the 103rd Congress ended its term with the worst environmental record of any Congress in recent memory.

What happened? The problem can be summed up in four words: minority rule run amok. Procedural rules suffered unprecedented abuse in both houses, frustrating legislation that would have passed easily in any previous session. For example, the threat of a filibuster over appointments to a conference committee—something that has never happened in the 200-year history of the Congress—held up mining reform long enough to kill it. Bills that enjoyed solid majority support—most of the environmental bills mentioned above, plus Campaign Finance Reform, Lobby Disclosure, and dozens of others—were brought down, sometimes by a bipartisan coalition of conservative Republicans and western Democrats, sometimes by a solid wall of Republicans alone. The result was

more of the gridlock Bill Clinton had sworn to end.

Last November an angry public took out its frustration at this collapse of the legislative process by turning Congress over to the very same Republican leadership that had orchestrated minority rule. The result is a scorched-earth mood on Capitol Hill, a dramatic exacerbation of the gap between Washington and the rest of the country, and a seeming victory for those who, in Senate Majority Leader George Mitchell's parting words, "are prepared to destroy this institution to get control of it."

The Clinton administration and the Democratic leadership in the Congress must bear much of the responsibility. The Democrats were warned by their friends in the environmental movement that the filibuster, unreformed,

*Our friends lack all conviction,
while Bob Dole is full
of passionate intensity.*

■

would bring down the new administration's program. The Senate leadership made no determined effort to change the rules, and as a result failed to educate the country about the perils of minority rule. The President, confronted early on by recalcitrant western Democrats opposed to mining and grazing reform, failed to use the ample powers of the White House to hold them accountable for their tactics. In the House, Speaker Tom Foley allowed individual committee barons to play local-interest politics with crucial bills.

Governing requires the disciplined use of power by the majority to execute the implicit contract with the voters

that victory brings: elect us, and we will deliver. It also requires the public to hold the minority accountable if it abuses the procedural guarantees of democracy.

Neither side is keeping its part of the bargain. The media, which should be demanding accountability, expresses as much admiration for those who defy the public will as it does indignation when they succeed. Machismo, not democracy, is favored by the front page and the evening news. Governing has become a sporting event, where only winning counts. "Democracy kayoed—film at 11."

It is vital to remember a simple truth about our form of government: 51 out of 100 is a majority, 49 is a minority. When 65 senators support a piece of legislation, it is an overwhelming mandate. There has always been a minority in the Congress determined to thwart environmental programs; the difference in the last Congress was that the majority allowed the minority to have its way.

And while Bill Clinton begged his enemies not to abuse their powers, he steadfastly declined to exercise his own. James Madison put the veto in the Constitution for a reason, but, as one White House aide told me, "This president does not use the V-word with this Congress."

He will need to use it with the next Congress—and firmly. It is time to expose the procedural smoke and mirrors that Capitol Hill's Wise Use wizards have employed to create the illusion of a public "backlash" against environmental programs. Every poll shows that Americans overwhelmingly favor strong environmental protection: in a democracy, we should expect nothing less. ■

CARL POPE is the executive director of the Sierra Club.

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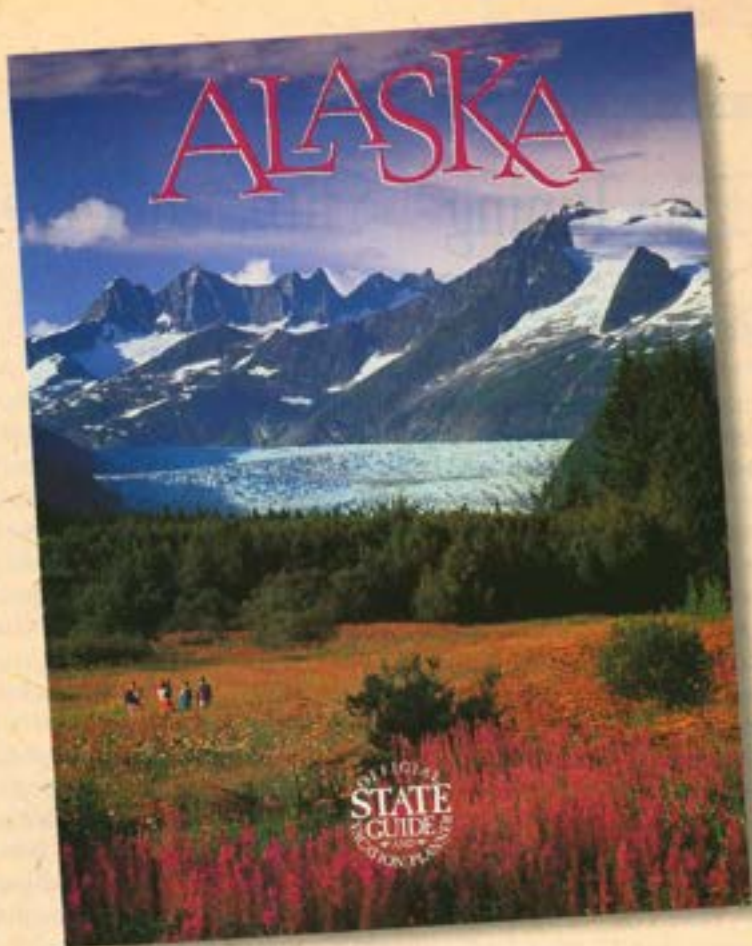
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HEARTH & HOME

Fine Tuning

MARC LECARD

Because of their beauty, acoustic properties, and workability, rainforest hardwoods have long been favorites with instrument makers and musicians. But now, with the world's rainforests threatened by clearcutting and burning, some craftspeople are turning away from traditional materials and taking a hard look at native woods.

The instrument makers who are looking for alternatives do so for several reasons: out of personal concern for the destruction of the rainforests, in response to the requests of concerned customers, and because they see the supply of exotic woods tapering off as restrictions are placed on rainforest logging and the trees them-

selves become scarce or even extinct.

High-quality acoustic guitars are usually made with rosewood and mahogany. Rosewood, a tropical hardwood, has long been used for guitar bodies, and both the sight and sound of contemporary acoustic instruments depend on this wood's resonant properties and rich grain. Because of its hardness, stability, and attractive appearance, mahogany is often used in making guitars; yet mahogany is taken from some of the most mismanaged, overlogged forests in the world.

"There's a boom in acoustic guitars now," says Steve Henderson of Breedlove Guitars, a custom guitar-maker in Tumalo, Oregon. "This is a good trend for us—but it's scary for some of the resources."

Breedlove is attempting to find domestic woods to stand in for rosewood and mahogany; homegrown black walnut and bigleaf maple have been the most successful substitutes so far.

Some domestic woods are themselves in need of protection. "We like old-growth redwood for our guitar tops because the grain is tighter, and it sounds better," says Henderson, "but all our redwood comes from salvage: tree stumps, or lumber recycled from old buildings."

Are native woods an adequate substitute for the gorgeous and rich-

toned exotics we have come to expect? "The sound of these indigenous hardwoods is not inferior to the tropical woods," Henderson says. "It's just different." He compares the "booming, bass-y" sound of rosewood to the more "piano-like" quality of black walnut. "We try not to design a traditional-looking guitar," Henderson points out. "So when people come to us, they're more open to looking at nontraditional materials as well."

Some larger makers are also beginning to question their use of rainforest woods. Martin Guitars of Nazareth, Pennsylvania, the oldest (founded in 1833) and one of the best-known guitar makers in the United States, recently produced prototypes using such domestic hardwoods as cherry, white oak, hard maple, and walnut. Sitka spruce from Alaska turned out to be the best material for guitar tops—but since the forestry practices of compa-

The silence of
the rainforest strikes
a chord

nies logging Sitka spruce were unacceptable, Martin sought out spruce logs that had been salvaged from salmon traps in Alaskan rivers and from abandoned railroad trestles.

All this may not seem very significant—musical instruments account for a minuscule portion of tropical-wood use in this country, the lion's share going to construction lumber and plywood. And far more U.S. trees are shipped to Asia for pulp and chopsticks than end up as guitar or fiddle tops. But an instrument that doesn't derive its resonance from distant destruction sounds sweeter to many ears. ■

►For more information, see "Resources," p. 135.



What Is This Stuff?

MICHAEL CASTLEMAN

In a world full of noxious chemicals with tongue-twisting names few nonchemists can pronounce, we are bound to encounter substances that might be harmful. How can you tell if the spilled goo that's spreading in the cupboard beneath the sink is dangerous? The answer is usually just a phone call away.

For suspected toxics of the everyday, down-home variety (cleaning products, yard and hobby chemicals), start by calling your local poison-control center, listed in the white pages of your phone book under "poison." These centers are staffed 24 hours a day, 365 days a year by pharmacists, toxicologists, or other professionals with a working knowledge of common toxic substances and access to reference texts and toxicological databases.

If you know the name of the substance, the poison-control operator can usually tell you if you've got a problem. If you don't know the chemical's name but do know its category—a plant food, for example—operators will estimate its toxicity based on their knowledge of similar chemicals. Either way, you'll be told the best action to take.

(The swallowing of a toxic substance is a common household emergency. Frequently—but not in every instance—the recommendation in these cases is to give the person—usually a child—syrup of ipecac to induce vomiting. If you don't have ipecac in your medicine cabinet, put it on your shopping list. It's available at pharmacies and some supermarkets.)

When calling poison control centers, it's important to observe proper

etiquette. These hotlines are set up to deal with potentially life-threatening situations. If your question falls under that definition, tell the operator; if it doesn't, inform him or her that you're calling with a request for information, not an emergency.

If you've been exposed to a possibly worrisome chemical at work or elsewhere outside the home, call the federal Agency for Toxic Substances and Disease Registry, a division of the Centers for Disease Control and Prevention. According to spokesman Michael Greenwell, "We have access to a wealth of information on every chemical known to cause a human health hazard." If the substance has been identified by name, an ATSDR toxicologist can tell you if it's haz-

ardous and how serious any exposure might be. If you don't know what you were exposed to, but can describe the circumstances and the symptoms, an ATSDR physician can screen you over the phone and refer you to an environmental health expert or clinic in your area.

In addition to serving as consultants to poison-control centers and government agencies, the ATSDR specializes in investigations of alleged contaminated sites and incidents. It has prepared cleanup recommendations for the nation's 1,600 top-priority Superfund sites, and is open to requests for investigation assistance from local or state government agencies—or from individuals who feel they have nowhere else to turn. Like poison-control centers, the

The spill, the smell,
the rash—maybe
you've been exposed



True Gratitude

SALLY-JO BOWMAN

ATSDR hotline is staffed every day around the clock. Each year ATSDR response teams handle about 400 requests for assistance, and help deal with approximately 100 toxic emergencies. "Unfortunately, all the effects of every toxic substance are unknown," says Greenwell. "There are a lot of gaps in our current understanding."

If the ATSDR can't provide sufficient information on the chemical that concerns you, you can turn to the National Toxicology Program, the division of the National Institute for Environmental Health Sciences that was established in the late 1970s to test less-researched chemicals. The NTP tests for general toxicity; carcinogenicity; reproductive, neurological, and immunological hazards, and other adverse health effects. Most possibly toxic chemicals are brought to the NTP's attention by government agencies, or by university or industry researchers. But the agency has recently broadened its outreach program, and now welcomes input from physicians and the public.

The NTP begins carcinogenicity tests for 10 to 20 chemicals each year, at a cost of about \$2 million to \$3 million per chemical. "It's slow, expensive research," says Errol Zeiger of the NTP's Chemical Selection Office. "But that's what good toxicology takes. You can't regulate intelligently without good data." Its findings inform regulatory efforts of state and federal agencies, and are incorporated into the toxicological databases for the ATSDR and poison-control centers.

Each year, more chemicals get nominated for testing than the NTP can investigate. "We base our selection," says Zeiger, "on the urgency of public concern about the substance, the number of people likely to be exposed to it, and our knowledge—or lack of it—about the chemical." ■

► For more information, see "Resources," p. 135.

February, midsummer on Aitutaki. At 6:30 a.m. I sweat just from brushing my teeth. The atoll, nearly central in the 15 Cook Islands strung through 770,000 square miles of ink-blue ocean, swelters in its turquoise lagoon 1,200 miles south of the equator. On a map of the Pacific these specks of land might be a printer's error.

This morning my daughter Tamara and I have hired a fisherman named Ma Tai to ferry us to Maina, a little-visited islet. Ma is gray-haired, lean, and leather-brown, lacking one front tooth and the two middle fingers of his left hand.

Ma reminds me of an old family friend. My ancestors were native Hawaiian, and in addition to relaxation I have come here hoping to discover my roots in larger Polynesia. Some connections are obvious: the volcanic mountains of Rarotonga, the main island, look like a miniature of my home island of Oahu almost 3,000 miles north. And as once was the case in Hawaii, brown faces are everywhere—more than 90 percent of the population here are Cook Island Maori.

Maori means "the true people." In Hawaiian the same meaning belongs to the word *maoli*, but hardly anyone uses the term. The number of full-blooded Hawaiians, perhaps 8,000, is now officially "statistically insignificant." Few people speak the native language, and fewer still have so much as a houseful of ancestral land.

In the Cook Islands we hear Maori spoken as often as New Zealand-accented English. The Maori have their language, their blood, their land. Island real estate is all ancestral: people use it, but it cannot be bought or sold.

Ma searches for English words the way he sorts through his bait bucket for the right lure. He hands us each a 300-yard spool of 40-pound-test nylon monofilament, hook and plastic squid on the end. We immediately strike two

Adrift in the Pacific
with a distant,
familiar relative



fish. Tamara hauls in her line in a neat pile; I build a 60-foot snarl in the bottom of the boat. Ma just smiles, takes my tackle, and patiently rewinds.

Midmorning we disembark in Maina's sandbar shallows. "Barbecue," Ma says. Beyond the pale gold beach, between pandanus and palms, he balances a cast-iron griddle on a log and two coconuts. Wielding a French knife as a cleaver, he whacks each fish in thirds and flops the pieces on the grill with sliced breadfruit. Then he clutches the knife by the back of the huge, heavy blade and delicately peels a papaya.

"You eat, Please." Ma lays the food out on a rickety driftwood table. "Here, Plates." He hands us large, round leaves. Although I haven't felt hungry—it's still not much past ten-thirty—with the first bite of fish I'm suddenly famished.

After snorkeling, we walk entirely around Maina, maybe half a mile, the texture of the sand underfoot and the coral patterns in the water changing every few steps. We pick up dozens of shells, every one occupied by a hermit crab. Ma sits in the shade of a pandanus checking over his fishlines and rolling stumpy cigarettes.

We head back in the mid-afternoon; the tide is so low that Ma cuts the motor and poles the last 80 yards. We step from the boat into bathtub-warm, foot-deep water. Salt mottles my thighs, and I can feel on my shoulders that my sunscreen didn't do much good.

"It's been a wonderful day, Ma," I say. "Thank you." I shake his five-fingered hand. His smile is as broad as his hat brim. He has spoken perhaps a dozen sentences all day. Now one more, seven words in eloquent order. "In my language," Ma says, "Thank you means *meitaki*." ■

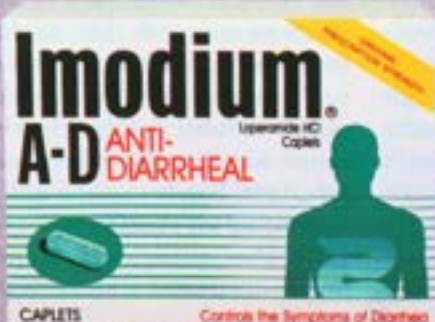
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Back in the Valley

GERALD HASLAM

Near the southern end of California's Great Central Valley, we veer east from Interstate 5, then travel a two-lane past the green spokes of agricultural fields, oil pumps salamiing in their midst. Soon we pass a shaggy, uncultivated plot, a ragamuffin among Lord Fauntleroy's. But it is no remnant of indigenous landscape; like the farms, it is covered with non-native plants. Everything here, it seems—weeds and crops and people—comes from somewhere else.

Wind that smells vaguely of chemicals tugs at our car. A lone kite pumps its wings above another unplanted tract. Beyond, a dust devil swerves and pirouettes, faint as a ghost, and our car rushes toward a mirage flooding the pavement: like most of California, we pursue the illusion of water.

Few of the fields here boast houses, for this is the terrain of corporate agriculture, with the richest farmers working in far-off boardrooms while brown men and women irrigate, plow, and harvest. Some family farmers remain, of course, and they live on the land and work with the laborers, who in turn reside in farm labor camps or ranch cabins or on the margin, *debajo del puente* . . . reminders of our shared past.

Well ahead of us, treeless hills begin to emerge from haze, hills steaming constantly as though Hell has sprung a leak; hot vapors are pumped underground here to melt the thick petroleum. At the foot of those hills hides a town. A few dark hints of trees betray its location but we know it well: Oildale, a community now contiguous with North Bakersfield. We discern a distant building, then two, then the silvery tangle of a refinery.

I turn to my wife and smile. "Almost home," I say.

She smiles back: "Almost home."

I have lived in many Californias—on beaches, in cities, on mountains—but only this one has gripped me as roots wrap rocks. It is far from the Golden State of imagination: no palm trees or ocean or movie stars. Here the lure is work, not leisure, and one learns quickly that life is complicated and hard. Here, too, one is constantly reminded that, no matter what humans have managed—and we have managed quite a lot—nature rules.

Nourished by former lifetimes, the memories stretch for miles

Tule fog dense as oatmeal closes schools, dust storms close roads, heat forces folks to sprint from air conditioner to air conditioner. Yet I love this place, even with its warts showing, because I am connected.

My great-great grandparents—he a *vaquero*, she a seamstress—first entered the Valley in the 1850s when they migrated north from Mexico. I was born here in 1937, married here in 1961, and will one day be buried here with my dearest friends, like our neighbors—from Oklahoma, Texas, Missouri, and Arkansas, mostly—who became extended family. "Speck, that clumsy kid of yours could fall out of a hole," Mr. Bundy told my dad. Then he punched my shoulder.

Yet the setting, not the people, finally dominates. Oildale is part of

one of the most productive unnatural landscapes in the world. Transported water, chemical agriculture, steam-infused petroleum produce jobs for many, wealth for few. Despite the absence of buildings, most nearby fields and hills are as developed as downtown Bakersfield.

As a kid, I used to think everywhere else smelled funny—no sulfurous belch of crude oil, no texture to the air. From my earliest memory, everything hereabouts seemed dry but not desolate. Less than six inches of rain falls most years, yet the area still teems with ants, lizards, rabbits, hawks, the whole chain. Long ago there were pronghorn and elk and grizzlies, too. And many Yokuts, native people.

When Thomas Baker migrated here in 1863, long before he made his field available to travelers, it was called Kern Island. The island—*islands*, really—was formed by the channels of the Kern River, whose water did not flow out of the Great Valley to San Francisco Bay, but instead puddled nearby in two lakes, 8,300-acre Kern and 4,000-acre Buena Vista, plus various connecting wetlands, marshes amidst desert. Only Buena Vista survived into my childhood; then it too was gone.

During those years, I often rode my bike a mile from our horned-toad neighborhood to an unreal realm I called Tarzan's House: great shading trees, dangling vines, dense brush through which animals scurried. And icy water. The Kern River and its forest were our jungle, our fishing hole, our swimming pool, and as startling in that barren setting as an unexpected flashbulb.

One day in 1950, I stood on a levee and watched brown water surge bridge-high out of the Sierra. My future wife, whose family lived near the levee in a section called Riverview, viewed the river in her living room, as her house filled with water. Neither of us could know we were witnessing



the last of the floods that over millennia had deposited the alluvial soil upon which an agricultural empire was built.

Four years later, Isabella Dam was completed upstream—ostensibly for flood control, actually to provide more water for agribusiness—and the riparian forest began to die. By the time I returned home from the army in 1960, the forest's remains stood like unwrapped mummies, and the channel had become a long sand trap. My children and I walked there a few times, but they couldn't imagine the setting I described, so I tucked it back into memory.

Local folks are lobbying for the return of the year-round flows. There is reason to hope that other generations might one day know something of the natural world that once hosted the Yokuts . . . and my pals and me. In my heart—in that interior world where most of us really live—I still visit Tarzan's House, and the vacant lot where lizards scurried, and the treeless bluffs where adolescent necking thrived.

I return to Oildale frequently, and on each visit my wife and I walk its streets and alleys and fields. We try not to romanticize the past. "That park, it was an oil sump, remember? I once saw a lizard run onto it,

then sink. I wanted to cry."

On our visits, we especially love to sit on the porch of my parents' old house, watch doves drinking in the gutter, and view orange-and-blue sunsets as spectacular as the Northern Lights. We know that air pollution creates those wondrous colors, but in Oildale everything is bittersweet. ■

GERALD HASLAM's most recent books are *Condor Dreams and Other Fiction* (University of Nevada Press, 1994) and *The Great Central Valley: California's Heartland* (University of California Press, 1993). He teaches English at California State University-Sonoma.

Beauty and the Beasts

California's Emigrant Wilderness offers visitors a taste of the Sierra Nevada at its most sublime. Bordering the northwest section of Yosemite National Park, the Emigrant's panoramic views, grassy meadows, crystalline lakes, and sweeping granite ridges are all protected by the Wilderness Act's mandate to retain the "primeval character and influence" of such places.

A loophole in the act, however, leaves the Emigrant and most other federal wildernesses a summer retreat for cows as well as people. The mountains' glad tidings may seem frustratingly elusive as you clamber over barbed-wire fences and walk beside hoof-pocked meadows, crewcut vegetation, and eroded and polluted streams. With more than 600 bovines chomping at its greenery each year, the Emigrant is, at best, a cow-pied paradise.

Far more than scenery is at stake. A March 1994 report written by U.S. Forest Service biologist Laura Conway indicated that grazing was probably driving at least three wildlife species in the Emigrant toward extinction: the Yosemite toad, the mountain yellow-legged frog, and the Sierra Nevada snowshoe hare. The agency responded weakly, making some minor changes in the grazing rules that left the Emigrant's streams and wildlife as beat up as ever.

BY JOAN HAMILTON

The muddy hoofprints don't stop at the Emigrant. The Forest Service, which is responsible for protecting most U.S. wilderness areas, has been woefully negligent across the board in dealing with grazing. In New Mexico, for example, livestock abuses have plagued the Gila and Aldo Leopold wildernesses for years. Stock ponds have been built inside wilderness boundaries; streams have been bulldozed. The Wilderness Act sanctions neither these abuses nor the rampant overgrazing, but here and elsewhere the Forest Service lets the stampede continue.

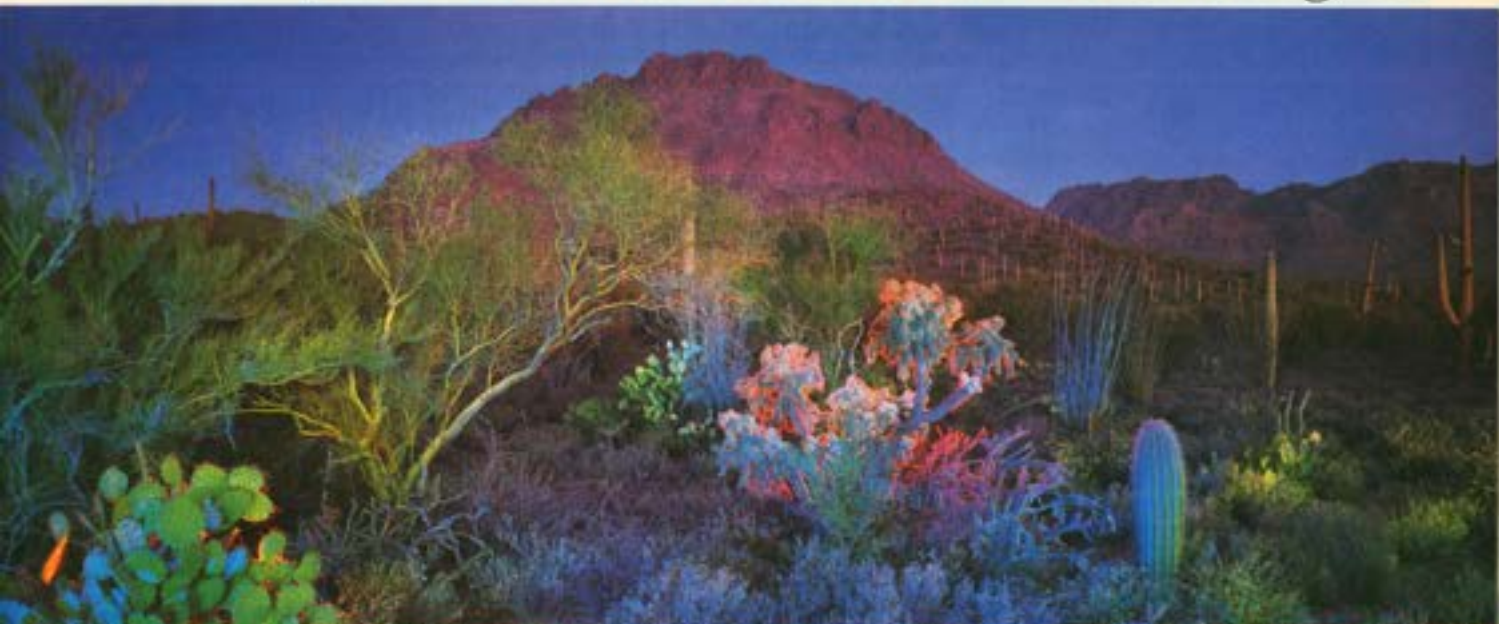
Environmentalist John Buckley lives less than an hour's drive from the Emigrant. A former Sierra Club chapter conservation chair who is now executive director of the nonprofit Central Sierra Environmental Resource Center, Buckley decided last summer that it was time



The Forest Service sacrifices wilderness to its sacred cows.

■ ■ ■

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PRIORITIES

to do something about overgrazing in this delicate, high-elevation wilderness. He began by writing to the Stanislaus National Forest, explaining that his group wanted to purchase a grazing permit. He offered to pay an annual fee of \$2,000, more than twice the going rate. The goal was not to run cattle, but to buy the wilderness a rest.

His proposal conferred benefits all around. Over the life of the agreement,

the streams, meadows, and hillsides on one badly abused 17,000-acre allotment would have a chance to heal. The agency would no longer have to monitor grazing, count livestock, do field studies, make mitigation plans, or fill out reports. For the rancher who currently leases the land, Buckley requested a transfer to a vacant, lower-elevation allotment, where the resource damage would be less severe.

The deal was especially sweet for taxpayers. Grazing fees fall far short of


covering program costs—losing the Bureau of Land Management and the Forest Service a total of \$52 million in 1990. The Forest Service spent \$189,939 on grazing in 1993 on the Stanislaus alone, while bringing in only \$27,717. In Buckley's words, "Taxpayers paid \$162,222 to have streams polluted, riparian areas eroded, wilderness areas fenced with barbed wire, and wildlife habitat damaged."

But the Forest Service was unswayed. Last fall, acting Stanislaus Forest Supervisor Glenn J. Gottschall told Buckley that "existing grazing permittees have precedence over all others."

Buckley was undaunted. Allow the rancher to retain the permit, he suggested, and move to a lower site. The \$2,000 could be used for restoration. But the Forest Service refused even this less legally vexing form of the proposal. "A simpler way to obtain the result you want might be to work directly with the permittee," Gottschall responded.

Buckley was disappointed, if not particularly surprised. But he wasn't deterred. In coming months, he plans more monitoring, more prodding, and perhaps legal action. "The Forest Service is not obeying its own rules and regulations," he says. "It is putting politics ahead of protecting nature."

► For more information, see "Resources," p. 135.



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It was, perhaps, the data about shrinking penis size that finally got policymakers to seriously consider banning chlorinated chemicals. For the past half century, evidence has been piling up on the hazards of the large class of compounds known as "organochlorines," including DDT, dioxin, and PCBs. First they were linked to chloracne, then to cancer, and most recently to a wide range of disruptions of the reproductive and hormonal systems of animals and humans.

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PRIORITIES

boys born to mothers exposed to PCB-contaminated cooking oil in Taiwan with significantly shorter penises than those in a control group; male alligators in Florida's Lake Apopka exposed to the DDT-breakdown product DDE with penises one-half to one-third the normal length; 70 percent of female rhesus monkeys exposed to dioxin with endometriosis, a painful inflammation of the uterine lining. And, according to the EPA's 1994 Dioxin Reassessment, the average body burden of organochlorines in the U.S. population is already enough to cause harm.

Unfortunately, the same stability that prevents organochlorines from decomposing in the environment has also made them cornerstones of modern industrial chemistry. Among many other tasks, they go into thousands of plastic products; form the basis of most herbicides and pesticides; and serve as degreasers and paint strippers. Chlorine is commonly used to bleach wood pulp to make paper white, but it leaves behind an organochlorine soup. When chlorinated products are manufactured or incinerated, other compounds—often including deadly dioxins—are released into the air or water, contaminating vegetation and starting their way up the food chain. A hallmark of organochlorines is their tendency to bioaccumulate, and to pass from one generation to the next through the placenta. They are, in this respect, the molecular version of Original Sin.

One of the first public agencies to speak out on chlorine was the U.S./Canada International Joint Commission on the Great Lakes (where chlorinated chemicals are poisoning subsistence fishers and rendering terns and gulls essentially hermaphroditic). The IJC recommended strong medicine: phasing out all chlorine and chlorinated chemicals—not just particular poisons like DDT and PCBs—as soon as possible. This demand is echoed by the American Public Health Association, Greenpeace, and, most recently, the Sierra Club. "We cannot address this problem one chemical at a time,"

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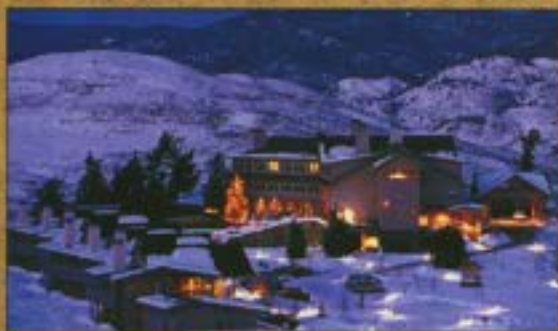
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PRIORITIES

says Club President J. Robert Cox. "Regulation of these chemicals as a class is the only way that we can adequately address this issue."

It is the call to phase out all chlorinated chemicals that really gives industry the heebie-jeebies. The EPA's Dioxin Reassessment, which industry had fondly hoped would give it a clean bill of health, showed instead that dioxin and other chlorinated compounds are much more dangerous than was previously thought. Frantic that the public and policymakers will draw obvious conclusions from the steady accumulation of damning evidence, the Chemical Manufacturers Association has bankrolled a \$5-million public-relations effort to persuade us that individual chlorinated chemicals should be considered innocent until unequivocally proven guilty. That doesn't mean, however, that it is offering to test each of the estimated 11,000 organochlorine compounds—an impossible task, as Tufts University biologist Ana Soto points out in *Garbage* magazine: "There aren't enough rats in the world to assess individual compounds and what their combined effects might be."

The chemical industry's other major argument turns on the ubiquity of its poisons: a total U.S. phaseout of chlorine, it argues, would cost \$102 billion annually. Yet the vast bulk of organochlorines could be scrapped for far less. "Eliminating 95 percent of chlorine use would cost only \$20 billion," writes Joe Thornton, a research analyst for Greenpeace (which has been at the forefront of the issue for years). The industry's own estimates show that most of the expense applies to sectors using small amounts of chlorine, such as pharmaceuticals and water purification. In most other areas, affordable alternatives are readily available and are, in fact, increasingly being employed. It's now a question of whether we'll phase out chlorine before it phases out us.

—Paul Rauber

► For more information, see "Resources," p. 135.

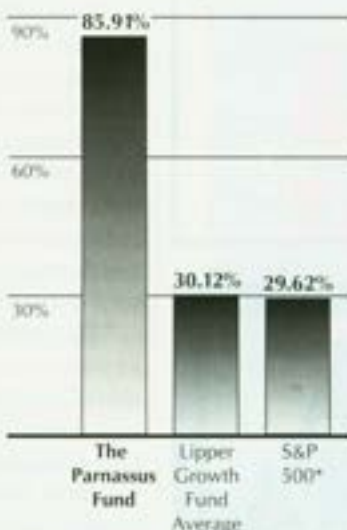
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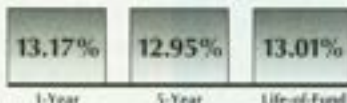


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PRIORITIES

Print No Evil

The environmental beat takes a beating.

Like the endangered critters they often cover, environmental reporters at America's newspapers seem to be losing safe habitat, as timid corporate journalism creeps into newsrooms across the country.

Last August veteran journalist Kathie Durbin of Portland's *The Oregonian* was removed from the environmental beat she had doggedly pursued for five years. Soon after, she resigned.

Durbin's exit, like those of most disfavored environmental reporters, was not an overt corporate lynching. Big advertisers and the logging industry didn't conspire to have her desk cleared out. Durbin's sin was that she enjoyed the complex world of environmental policy-making and regulatory law—a real downer for her newly arrived style-over-content editor.

"The truth is, industry doesn't need to put pressure on newspapers anymore," says Nathaniel Blumberg, former dean of the University of Montana School of Journalism. "So many papers in the West are owned by out-of-state corporations that they now share interests with industry." These days many top editors have more in common with CEOs and marketing gurus than with their reporting staffs.

Every publisher knows that the percentage of newspaper readers has declined steadily for two decades and that the most crucial audience, the one aged 22 to 44, would rather channel-surf than read a newspaper. In this climate, corporations (and Wise Use groups) usually don't have to lobby against investigative reporting on welfare ranching, mining abuses, and corporate crime. Nervous editors don't want that stuff any more than they do.

So from Palm Beach to Portland, editors are rethinking and redesigning newspapers. That's fine, as long as it's not at the expense of reporting that

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Durbin's departure comes after those of reporters such as Richard Manning of the *Missoulian* in Montana, Steve Steubner of *The Idaho Statesman* in Boise, and at least a dozen others in the West who were reassigned or simply made so miserable they left. Steubner, who had written on dams, mining, and the Yellowstone fires, was run off by a bean-counting Gannett editor who banned lengthy stories and beat tough stories into mush. Manning, too, covered natural-resources issues and felt the heat after documenting rapacious clearcutting in Montana. "Virtually every veteran environmental writer I know," says Jim Detjen, a *Philadelphia Inquirer* reporter and president of the Society of Environmental Journalists, "has been threatened with the loss of his or her job at one time or another."

At *The Oregonian* (owned by New York-based Newhouse Newspapers) Durbin ran afoul of Sandra Mims Rowe, fresh from *The Virginian-Pilot* in Norfolk, who spent her reporting career in the features department. While one former Rowe staffer said she was supportive of investigative projects, another said many left the *Pilot* because Rowe emphasized "easy-to-read stories in which presentation was more important than content."

Durbin has won numerous awards for her coverage of mining, grazing, and pollution issues over the past 20 years. In 1990 she documented decades of overcutting by Northwest timber companies. Although timber interests won't miss Durbin, they grudgingly admit she knew her beat. "We never had a problem with her treatment of facts," says Ron Arnold, the vitriolic Wise Use leader from Bellevue, Washington.

Durbin says she was never directly told how to shape her coverage, but soon got the feeling that her editors liked contrarian spins on, say, dioxin or global warming (see "Cost/Benefit Journalism," September/October 1993), and wanted every story to explain the economic impact of environmental decisions—which would

be fair and logical if business reporters had to document the environmental impact of shopping malls and leveraged buyouts.

Perhaps idealistic reporters are destined to crash on the rocks of profit-driven papers. "It's the corporate culture," says former *New York Times* environmental reporter Phil Shabecoff, who was shoved from his beat in 1991 after an editor deemed him too sympathetic to environmentalists. "Publishers are dependent on advertising

and consumerism, and covering the environment tends to attack that."

The dilemma at *The Oregonian* confronts every newspaper. Yes, some readers want shorter, simpler features with eye-catching graphics. But editors would do well to remind themselves that their communities, and their profession, will never remember them for pandering to the lowest common denominator. Newspaper editors are usually remembered for only two things: courage or lack of it. —Bruce Selcraig



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THUNDER &

I AM HOVERING LIKE AN OUTLAW UP ON the Canada/Montana border, over on the east side of the Divide, the Front Range, where I have just made a fool of myself, have been rude and socially unacceptable. I've come over from the deep woods of the west side—the wet, clearcut-riddled side—to read at a benefit for a nonprofit organization from Hollywood that's trying to raise dollars to purchase critical habitat for the grizzlies and the wolves—the beautiful, glossy creatures that have been so kind to Hollywood in the past. The reading



something. I read them a shrill diatribe about the Yaak Valley—the most northwestern valley in the U.S. Rockies, a vital cornerstone to the health of the entire West. I harangue my tender, sweet-smelling audience with a request for letters to Congress to designate the last few roadless areas in the Yaak as wilderness. I point to the raggedy-ass, ink-smudged mimeographs that will be on the table on their way out.

I don't read any pretty poems that day, but instead tell them the harsh facts—about the low-elevation rain-

IT'S TIME TO HITCH UP OUR SAGGING LYCRA AND RESTORE A ROCKY MOUNTAIN WILDERNESS VAST ENOUGH FOR GRIZZLIES AND WOLVES, THE FIERCEST AND MOST DEMANDING OF ALL NORTH AMERICAN WILDLIFE SPECIES. ♦ BY RICK BASS

has been advertised to the public as an evening of "bears, wolves, and writers"—implicit is the notion that it will be an evening of fun and celebration. Everyone's all duded up; everyone's eating and drinking and merrymaking. As luck would have it, I'm first up at the mike. They're trapped now, everyone in their seats, smiling and expecting poetry about the muscled hump of the grizzly and the night-howl of the wolfpack.

Instead, I ambush them. Instead of giving them a nice reading, I ask for



forest of the Yaak, the only one like it in the United States; about how it grows big trees, and about how those trees have been clearcut by corporations that are abandoning the area now that most of the big trees are gone. I tell about the thousands of miles of road that the Forest Service has built for the timber industry throughout the valley, and of the nobility of the animals that are hanging on there. I spell out the names of the senators and representatives to write to; I spell out the addresses. The audience shifts, squirms,

LIGHTNING



Yaak River, Montana

"I SHOULD NOT LIKE TO THINK THAT SOME DEMIGOD HAD COME BEFORE ME AND PICKED OUT SOME OF THE BEST OF THE STARS. I WISH TO KNOW AN ENTIRE HEAVEN AND AN ENTIRE EARTH."

HENRY DAVID THOREAU

yawns, rolls eyes, checks watches. No shit, Sherlock, who's up next? We all know the Rockies are being lost, they're thinking. But what I'm thinking is, if we all know it, then why is it happening?

The good thing about my breach of etiquette is that at the cocktail party afterward I have lots of space to myself. Beware the zealot.

I know I've been behaving badly, passing out my little Yaak-flyers at all social gatherings—weddings and christenings included, everywhere except funerals—but I can't help it. Time is so short, and the land, the entire West, is no longer being cut up into halves or quarters or even eighths, but into sixty-fourths now, and one-hundred-twenty-eighths next year, and then into thousandths, and millionths, while we sit complacently idle, or at best strap on our roller blades and hitch up our sagging Lycra. I see too much play in the Rockies these days, and not enough work. I am damn near frantic over what is being lost.

The four largest national parks in the Rockies—Yellowstone, Waterton/Glacier, Banff, and Jasper—are currently of no real or lasting importance to the region's biological health. They are like the large, showy muscles of a bodybuilder who has ceased to work out. They're not going to last; the cardiovascular system's been ignored. The wild, fresh blood

can't get from one big muscle to the next.

We're losing the big animals first. In the Yaak Valley, for instance, the animals that we most think of as defining the American wilderness are now down to single- or at most double-digit populations. That means nine or ten grizzlies. Two or three wolves. A single woodland caribou. Perhaps three or four lynx. A handful of black-hearted, uncompromising wolverines.

Some creatures can adapt and move through, across, or around our exponentially increasing fragmentation. But not wolves. Unlike salamanders and woodpeckers, wolves will be shot by our own species whenever we see them. And certainly the grizzlies need the space that's being lost. Down to less than 2 percent of their former range, they simply will not barter with humans.

Conservation and ecosystem biologists refer to grizzlies and wolves as "umbrella species"—meaning that they are animals whose charisma and habitat requirements can help humans save broad, intact ecosystems. If grizzlies and wolves are present, everything else in a system will be present.

When it is raining, I want an umbrella—and believe me, it is pouring, and there aren't enough to go around. The spirit of the Rockies and its wildness is getting soggy, is tattering, falling apart.

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In the Yaak Valley, a crazy-quilt of dirt, trees, and roads has replaced a rich, multilayered forest once as wild as any in the Rockies.

Sixty million years ago, the earth not too far from the Yaak Valley got up and left: it was folded and pressed and thrust about 70 miles eastward, up over the Continental Divide and into what would much later become the Blackfoot Indians' sacred grounds, the Badger-Two Medicine region of northern Montana. A pattern of big things traveling great distances was set in motion. And the pattern only got stronger. With the new mountains in place, the frigid hearts of glaciers began to form, sliding up and down the mountains, cutting and shaping them for the species that existed then, and for the ones that would come later.

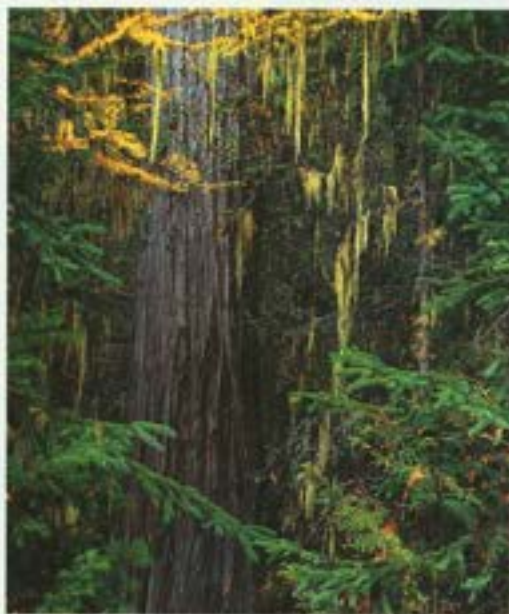
With sharp, loving teeth, the glaciers sculpted hideaway cirques, hanging valleys, fast, wild rivers, and then eased, groaning, down onto the plains, dumping moraines and clacking boulders and cobbles, stopping at the edge of what is now called the Front Range of the Rockies—where the mountains meet the plains.

There was also a great glacier out on the plains, and a narrow band of

open ground between the two ice sheets, a corridor running north and south along the Front Range. This was a corridor for humans, bear, bison, and mammoths—big mammals, even giant mammals, always moving.

Paleontologist Jack Horner (the guy who was advisor to the movie *Jurassic Park*, but who is not responsible for its fictions) has discovered 75-million-year-old fossils along the Front Range of a previously unknown dinosaur he calls a myosaur, which he believes traveled in great herds like bison. *Tyrannosaurus rex*, the terrible 16,000-pound "lizard king," followed them, feeding on the bodies of the drowned, the sick, and the diseased, much as grizzlies move down low in spring to feed on green-up grasses and the carcasses of winter-killed deer, elk, and moose.

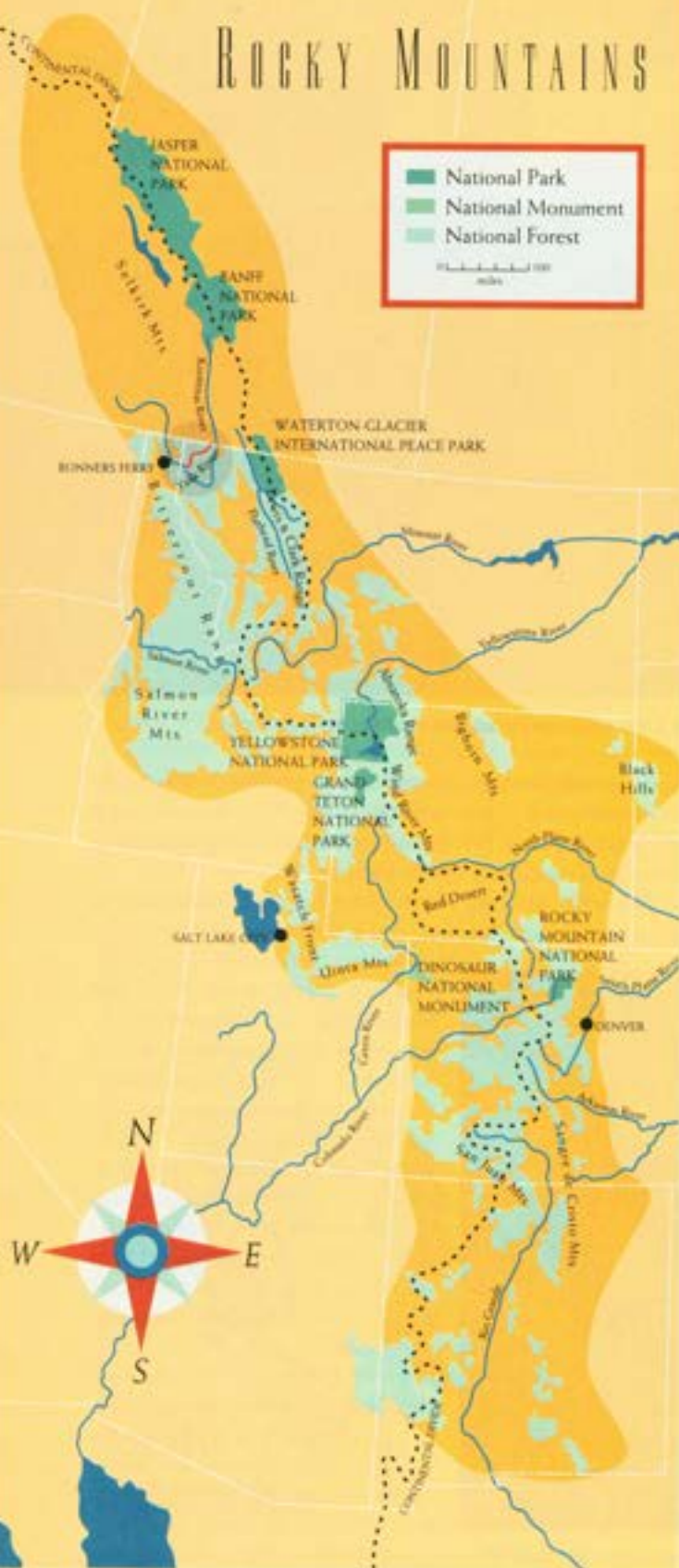
Once there were hundreds of thousands of individuals, even millions, in the herds of Rocky Mountain megafauna, but due to a lack of intact systems, and a lack of predators to drive the herds into large groups and keep them moving, our



In other parts of the Yaak, ancient forests still stand tall.

CORE VALUES

ROCKY MOUNTAINS



When a vase shatters, you begin to mend it by picking up the largest pieces. In the shattered Rockies, those pieces are the Glacier/Waterton, Great Yellowstone, and Salmon/Selway ecosystems in the north, and the San Juan and northern New Mexico ecosystems in the south. At the core of these regions are the wilderness areas and national parks that the Sierra Club has worked so hard to establish and protect in the past.

But preserving existing cores is no longer enough. It is the smaller pieces of public and private land around these protected wildlands that will determine whether the Rockies can continue to support such uncompromising, wide-ranging creatures as wolves and grizzlies. If these pieces continue to be fragmented by roads and clearcuts and mines and second homes, the Rockies' rocks will remain, but not the wild creatures and processes that make up its living, breathing ecosystem.

The Sierra Club's Ecoregion Program aims to protect and expand the Rockies' existing cores of wildness. Some of the places that could make the range whole, such as the Yaak Valley in Montana, need official wilderness designation. Others, such as Colorado's Piceance Basin (where energy companies have dominated in recent years), need restoration.

Here are some of the projects the Club is currently pursuing in the Rockies:

- ◆ Helping to shape a Clinton administration study of the Columbia River watershed, which includes a huge portion of the Northern Rockies. Because President Clinton has declared at least outward allegiance to protecting ecosystems, the Columbia initiative could provide a chance to move land management still anchored in 19th-century plunder into the 21st century.
- ◆ Challenging the environmentally and economically disastrous Animas-La Plata water project, which would pump water out of the Animas River near Durango, Colorado, to a storage reservoir 1,000 feet uphill.
- ◆ Working for passage of statewide wilderness bills for Idaho and Montana, as well as on an expanded Northern Rockies Ecosystem Preservation Bill, which made its debut in Congress last year.
- ◆ Working locally to prevent destructive grazing, mining, and logging, and to protect biodiversity (by obliterating unneeded roads in grizzly bear habitat, for instance).

One overarching principle guides these activities. From Jasper to the Rio Grande, the Sierra Club is driven by the belief that permanent preservation—particularly the designation of wilderness areas—should lie at the heart of its efforts to mend the Rockies' ecosystems. In a superlative mountain range long beleaguered by those who would chop it to pieces for profit, that would be a salutary step forward. "We are not fighting progress," said Howard Zahniser, a principal author and advocate of the 1964 Wilderness Act three decades ago. "We are making it." —Rick Johnson, Sierra Club Northwest representative

herds—elk and antelope, now—are much smaller and more spread out.

Yet the essence of the emerging science of conservation biology, beyond the recognition that all of nature is interconnected, is that a habitat must not become fragmented, cut off from other wildlands. Should it be made into an "island," then it will be able to support fewer species, and some stranded populations will go extinct.

To avoid such losses, you protect the richest ecosystems first, along with places strategically located between them, to allow genetic transfer between the systems.

Which—surprise!—brings me back to the Yaak, up on the Canadian border. Like some wild species hiding out in the dense, wet timber, I seem unable

to leave, in my frantic heart, this one relatively small but cornerstone valley: among the most biologically diverse in the Rockies, and one that is totally unprotected, with not a single acre of designated wilderness. Not a single protected wildlife refuge, park, nothing. It's just open season.

If the Yaak falls, then the wild creatures in British Columbia will lose an important link to the Bitterroot Range along the Montana/Idaho border and the Salmon Mountains to the south (where they would have a straight shot into Yellowstone to the southeast, or into Oregon's Blue



Big, wide-ranging beasts like the woodland caribou (above), the timber wolf (right), and the grizzly bear (below) need big wilderness, a rare commodity in today's Rocky Mountain West.



Mountains to the southwest).

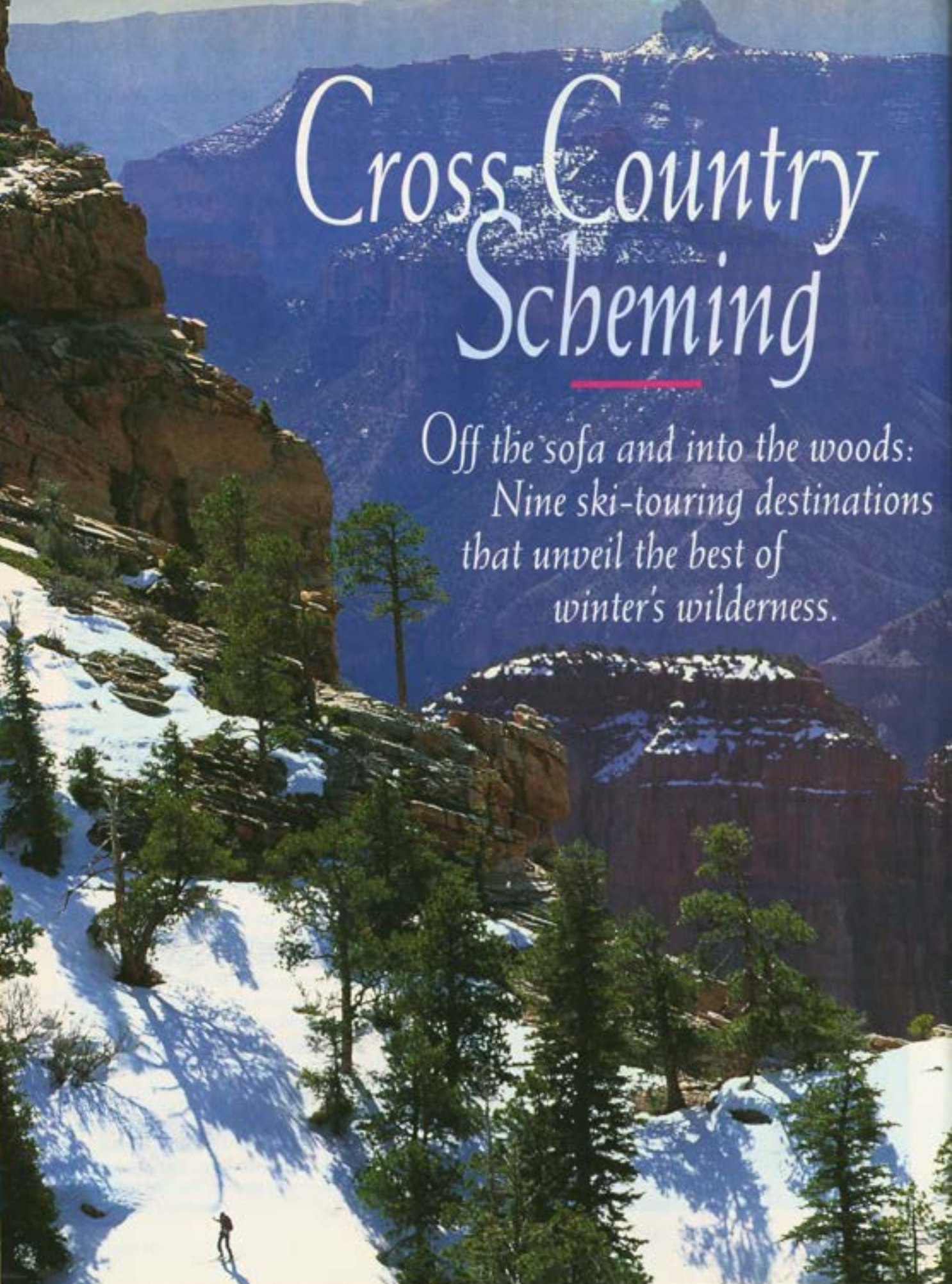
The Yaak similarly connects the Northern Continental Divide ecosystem—Glacier National Park, the Bob Marshall Wilderness, Badger-Two Medicine country, and the Swan Valley—to the Selkirks of northern Idaho, and to the North Cascades, which connect to the Central Cascades and the Coast Range.

Because the Yaak so strategically links north to south and west to east, it has the combined, teeming diversity of all these systems. Not just grizzlies and wolves, but wolverines, woodland caribou, snowy owls, and sculpin.

If the Yaak is not saved, if we allow it to fall, we might as well cut open the body of the Rockies and reach in and grab the hot, bloody, steaming red heart and twist it free, yank it out. Steam will rise from the empty carcass. Blood-flow will stop. The brain and body might function a few more seconds—five or ten years. But then no more.

Am I asking people to flock to see this place? I am not—not until there is some system of preservation, some plan, in place. It frightens the hell out of me to be focusing on it. But the Yaak is so much at the edge—so heavily fragmented—that if we do not draw attention to it, it will surely be lost. The populations of the big creatures are dwindling, and yet the lushness, the biodiversity, is still here. Even as I write these words, in the early fall, the chitter of a kingfisher is mixing with the caws of ravens. Earlier this morning, I heard coyotes; last night, elk. There is still a symphony, still a harmony—but the big guys are in trouble, and when places like the Yaak are in trouble, then so too is the

Continued on page 131

A scenic winter landscape featuring snow-covered mountains, evergreen trees, and a lone skier on a slope. The sky is a deep blue, and the overall scene is serene and majestic.

Cross-Country Scheming

*Off the sofa and into the woods:
Nine ski-touring destinations
that unveil the best of
winter's wilderness.*

MOST PEOPLE THINK OF WINTER as a season of limits, but to wilderness enthusiasts, it's a season of possibilities. Cold and snow work better than any backcountry permit system to keep wild areas wild, and remoteness begins just out of earshot of the nearest road. If you've grown frustrated jostling for solitude at your favorite alpine lake in summer, try skiing there in winter. Chances are it'll be all yours.

If you're new to cross-country skiing, get a start on the forgiving groomed tracks of an established Nordic trail system. Head out on backcountry trails only when you're comfortable dealing with the vagaries of winter weather and have learned the rudiments of routefinding. (Even a marked and frequently used trail can vanish in a storm.) If the winter-wilderness bug truly takes hold, consider venturing out on the ultimate excursion, a multiple-day trip—one in which you may wind up pioneering your own never-tracked-by-any-other-human route. First, though, you'll need to learn the basics of snow camping and ski-mountaineering. A prudent way to get started is to take an organized tour led by professional outfitters.


Plenty of books can point you in the right direction. For a general introduction to Nordic skiing, read *The Basic Essentials of Cross-Country Skiing* by John Moynier (ICS Books, 1990) or *Backcountry Skiing* by Lito Tejada-Flores (Sierra Club Books, 1981). Learn how to tackle adventurous winter trips with the *AMC Guide to Winter Camping* by Stephen Gorman (AMC Books, 1991) and the updated classic, *Mountaineering: The Freedom of the Hills* (The Mountaineers Books, 1992).

What follows is a mere morsel of ski-touring possibilities across the continent, adapted from *The Best Ski Touring in North America* by Steve Barnett (Sierra Club Books, 1987). A good source for detailed guides to these and other ski destinations is The Adventurous Traveler Bookstore, P.O. Box 577, Hinesburg, VT 05461; (800) 282-3963. The folks there will be able to dig up regional guides that may not be stocked by your local bookstore.



MT. MARCY, NEW YORK

Adirondack solitude, conditions permitting

 The roadless High Peaks at the core of New York's Adirondack Forest Preserve offer a solitude, particularly in the dead of winter, that is rare in the thickly populated Northeast. The descent of 5,344-foot Mt. Marcy, the state's highest summit, is a basic eastern "down mountain" ski tour: just under 15 miles round-trip with a 3,500-foot vertical drop, densely forested much of the way, and always at the mercy of notoriously ferocious eastern weather conditions. Locals figure you have about a 50-50 chance of finding good skiing on Mt. Marcy in January and February, and an even better chance in spring.


Despite the odds, an established hiking trail that's wide enough for comfortable skiing (for experienced skiers) and never dangerously steep makes Mt. Marcy the most easily skiable of Adirondack peaks. For beginners or those skiers in no mood to chance an encounter with arctic cold, high winds, and blinding fog, the mountain is merely a centerpiece; a wide variety of easier but still rewarding ski tours can be found in the sheltered valleys below.

Elsewhere in the woods, lakes, hills, and rivers of the Adirondacks, good, long, cross-country trails traverse the near-wild terrain. The ultimate is the 133-mile-long Northville-to-Lake Placid Trail; an eminently pleasurable one-day trip through the heart of the High Peaks goes from Adirondack Loj (accommodations run by the Adirondack Mountain Club) over Avalanche Pass to Lake Colden and back, offering views of the high peaks without forcing you to endure their weather conditions.

For more information call the High Peaks Information Center, (518) 523-3441. Maps of the Adirondack High Peaks are available from the Adirondack Mountain Club, RR 3, Box 3055, Lake George, NY 12845; (518) 668-4447. Useful guidebooks include *Classic Adirondack Ski Tours* by Tony Goodwin (Adirondack Mountain Club, 1994); *Adirondack Cross-Country Skiing* by Dennis Conroy and Shirley Matzke (Backcountry Publications, 1992), and *Cross Country Northeast* by John R. Fitzgerald (Mountain N' Air Books, 1994).

TEARDROP TRAIL, VERMONT

Fine snow in the forests

 No New England state has ever considered adopting a license-plate boast like Utah's "THE GREATEST SNOW ON EARTH." It's not unusual for it to be 50 degrees and raining one day and minus-20 the next, making mediocre snow conditions the norm. At New England's downhill resorts, add heavy ski traffic on narrow forest trails, and fresh snow quickly turns to perilous glare ice.

The smart New England ski tourer heads into the forests, which protect soft snow from the assaults of wind and sun (and other skiers). A perfect example, where dense woodlands open up just enough to make ski-touring a pleasure, is a route that circumnavigates Mt. Mansfield, Vermont's highest peak. The tour links the descent of a now-abandoned downhill trail built in the 1930s with modern touring trails on the peak's north side. It's a strenuous, full-day trip, and includes tremendous variety, ranging from powder skiing to tree slaloms, from bushwhacking to cross-country on set trails. Skiers must successfully negotiate several trail junctions, which, while marked, can easily be overlooked unless you're an experienced routefinder.


Skiers uninterested in blazing routes to icy summits can still find plenty of superb touring on the groomed trails of the four nearby Nordic ski areas, including Mt. Mansfield Touring Center. This system includes the popular Bruce Trail, the first ski trail cut on the mountain. A longer but easier tour than the Teardrop is a route that leads from Bolton Valley Ski Touring Center to Nebraska Valley Road. No description of the area is complete without mention of the elegant Trapp Family Lodge, run by the "Sound of Music" family and dripping with Austrian *gemütlichkeit*. Its 40 miles of groomed trails link up with other groomed and backcountry trails in the area, enabling feather-bed and down-comforter skiers to sample all of Mt. Mansfield's terrain.

For more information and other route possibilities, get a copy of *Cross-Country Skiing in New England* by Lyn and Tony Chamberlain (Globe Pequot, 1992), or *Classic Backcountry Skiing: A Guide to the Best Ski Tours in New England* by David Goodman (AMC Books, 1989). The Trapp Family Lodge can be reached at (800) 826-7000.



CHIC-CHOC MOUNTAINS, QUÉBEC

Calendar-free skiing

 The hulking Chic-Chocs rise like mastodons out of the north coast of Québec's Gaspé Peninsula, beckoning to Boston-area skiers frustrated by the wildly variable ski conditions in the northeastern United States. The range offers deep and reliable snows that begin in October and last well into summer, a vast skiable area above timberline, steep chutes and bowls for downhill thrills, rolling plateaus perfect for long-distance cross-country tours, and open conifer forests unlike the dense jungles of New England.

Through the entire range there is only one road, and very few people. From the town of Ste.-Anne-des-Monts, Québec Route 299 heads south across the Gaspé Peninsula and into plateau country. The most accessible skiing is on Mt. Albert, a 25-mile drive from town. From its 3,755-foot summit (more a bump on the plateau than anything else) skiers have access to 10 square miles of treeless expanse. Nearby is the McGarrigles Plateau, a 6-by-10-mile rectangle with sufficient forest cover to provide protection from harsh weather. Thrill-seeking skiers drop off the edges of the plateaus, where they find challenging downhill runs with as much as 2,500 feet of vertical drop.

The Gaspé's reliably heavy snowfall brings penalties along with the rewards of a long ski season. Its above-timberline areas are naturally susceptible to the dense fog and high winds that pour in from the ocean. The best weather for skiing comes late, in April or May, but the Gaspé also tempts New Englanders anytime they're staring at bare ground in midwinter—or simply when they want a French ski vacation just 600 miles from home.

For more information contact the Parc de la Gaspésie, 10, boulevard Ste.-Anne, Ste.-Anne-des-Monts, Québec G0E 2G0; (418) 763-3301. Useful guides include *The Complete Guide to Cross-Country Skiing in Canada* by John Peaker (Doubleday, 1987), and *Cross-Country Ski Inns of the Northeast U.S. and Quebec* by Marge Lamy (Robert Reid, 1991).



NORTHERN MINNESOTA

Cross-country paradise

While the Midwest offers precious little in the way of downhill skiing, its cross-country opportunities are plentiful. Skiers can choose between one of the most extensive systems of maintained ski-trails in the United States—the North Shore Trails System along Lake Superior—and one of the wildest, untrammelled places to set a pair of skis—the Boundary Waters Canoe Area Wilderness.

Some 120 miles of machine-groomed track wind in and out of the hills along the Minnesota shore of Lake Superior, about 25 miles of which link winter lodge to winter lodge (and hot shower to hot shower, no small matter in an area where you hope for winter temperatures of 15 to 25 degrees but more often settle for minus-5). What you gain by tolerating that extra pair of warm socks is reliable snow, where thaws and hard freezes are rare.

The rolling terrain is ideal for cross-country trails, which run the gamut from very easy to arduous. A particularly scenic section of the North Shore system is in Cascade Falls State Park, where ski tracks run along the banks of the Cascade River and its waterfalls on its way to Lake Superior. In the southern sector of the system, the Sugarbush Trails swoop 18 miles through a virgin maple forest.

What the North Shore is to trail skiing, the nearby Bound-



ary Waters is to backcountry touring. A forested flatland dotted with lakes, it offers a network of ski trails that in warmer weather are the region's popular canoe routes: lakes connected by portage trails.

While multiple-day trips will take you into the heart of this wilderness, dozens of good day trips are also possible, based from lodges on the wilderness area's border, such as the one at Sawbill Lake, or from lodges on the nearby Gunflint Trail system.

For more information about the trails and lodgings of the North Shore Trail System, contact the Lutsen Tofte Tourism Association, Box 115, Lutsen, MN 55612. Call (800) 897-7669 for updates on snow and trail conditions along the North Shore, and (218) 720-5324 for Boundary Waters. A map covering the North Shore and BWCAW is available from Superior National Forest, Box 338, Duluth, MN 55801; (218) 720-5380. *Ski Country: Nordic Skiers Guide to the Minnesota Arrowhead* by Robert Beymer (Fisher Co., 1986), and *Guide to Minnesota Outdoors* by Jim Umhoefer (NorthWord Press, 1992; P.O. Box 1360, Minoqua, WI 54548), provide thorough detail on ski routes in the region.



GRAND CANYON, ARIZONA

A prize at tour's end

When you want to see the Grand Canyon without crowds, veterans will tell you, approach the chasm by way of its uncrowded North Rim. Dichards will up the ante, suggesting you approach in winter, on skis, when the park roads and facilities have closed for the season. Unlike the lower, more crowded South Rim, the North Rim is the edge of a high, forested plateau; its many roads make excellent paths for easy cross-country skiing in a sunny and warm winter environment, even in January or February. The most popular tour covers 45 tracked miles of the Kaibab Plateau from Jacob Lake to Point Imperial, a spectacular end to an otherwise gentle tour. From here, some skiers continue across the canyon—on foot—down the Bright Angel Trail and up the other side to exit at the South Rim.


If a 90-mile round-trip sounds excessive, Kaibab Lodge, 18 miles from the canyon rim, offers several options. Skiers can break up the long tour with an overnight stay at the lodge, or they can be shuttled in from Jacob Lake in a "snow van." Once at the lodge, they can ski the final 18 miles to the rim or explore the lodge's groomed-trail system.

For more information check with the Kaibab National Forest office at Fredonia Ranger Station, Kaibab National Forest, Fredonia, AZ 86022; (602) 643-7395. (Some U.S. Forest Service roads may be plowed in the winter, allowing you to drive along the plateau to within a short ski of the rim; other roads, closed and snow-covered, provide ski access to the plateau's remote corners.) Other contacts include Grand Canyon National Park, (602) 643-7395, and Kaibab Lodge, (800) 525-0924. A good guidebook to the area, *Ski Touring Arizona* by Dugald Bremner (Northland Publishing, 1987), is out of print, but may be available at your local library.



YELLOWSTONE NATIONAL PARK

Cold winters and hot springs


 High mountains, deep canyons, camping by hot springs, skiing past herds of bison and elk while geysers spout in the background: add a few 30-degree-below-zero mornings, and you've got ski-touring in Yellowstone. This is one national park that encourages winter travelers; the road that runs across Yellowstone's northern boundary is kept open all winter, and there is regular service by "snowcoach" to ski-touring trailheads on remaining park roads. Cross-country tracks are marked near Old Faithful as well as the Tower Falls, Canyon, and Mammoth Hot Springs areas.

For the truly adventurous, a challenging ski tour in the park starts at Old Faithful, heads to Shoshone Lake, and then to hot springs at Three River Junction at the head of the canyon of the Bechler River. It descends the canyon and crosses Bechler Meadows, ending at the Bechler Ranger Station, for a total of 30 miles (with an additional 12 miles along an unplowed road to reach "civilization"). The skiing is generally easy, but the cold can be frightful. Late March or early April is the best time to go, when the snow has consolidated and temperatures are more moderate.

For more information contact Yellowstone National Park, WY 82190; (307) 344-7381. Private guide services operating in the park include Yellowstone Expeditions, (406) 646-9333, and Yellowstone Alpen Guides, (406) 646-9591. Good resources include *Cross-Country Skiing Yellowstone Country* by Ken Olsen et al. (Falcon Press, 1993); *Yellowstone Winter Guide* by Jeff Henry (Roberts Rinchart, 1993), and *Fifty Ski Tours in Jackson Hole and Yellowstone* by Richard DuMais (High Peaks Books, Wilson, WY, 1990). Yellowstone maps are available from Trails Illustrated, P.O. Box 3610, Evergreen, CO 80439; (800) 962-1643; (303) 670-3457.

THREE SISTERS WILDERNESS, OREGON

Volcanoes in springtime

 An exceptionally beautiful high-altitude area crowned by four glaciated volcanoes, the Three Sisters Wilderness offers easy day trips for beginners on and around 9,175-foot Broken Top, and demanding, several-day expeditions that link all four peaks. This is wide-open high country; the four cones rise gracefully above rolling volcanic highlands, without the impasses of deep valleys or high ridges. Skiers can traverse open forests or tackle long and continuous above-timberline glacial descents.

While snow in the Cascades has a reputation for being unbearably soggy, the Three Sisters' cross-country routes are on the range's sunny, high-desert, eastern side, where snow depths routinely reach 15 feet each season. Combine that with smooth, brush-free, volcanic soil, and the ski season stretches from October to July. The best weather and ski conditions, in fact, don't arrive until May, especially above timberline.

Access to the wilderness is from U.S. Route 97 and the town of Bend. Trails fan out from the Forest Service's Dutchman Sno-Park parking lot (a permit is required) near the Mt. Bachelor Ski Area along the Cascade Lakes Highway, Oregon Route 46.

For more information contact the Bend Ranger District, Deschutes National Forest, 1645 Highway 20 East, Bend, OR 97701; (503) 388-5664. The Mt. Bachelor Cross Country Center maintains a network of groomed trails; (503) 382-2442. For more detailed trip descriptions, pick up a copy of *Cross Country Ski Routes Oregon* by Klint Vielbig (The Mountaineers Books, 1994) or *Cross-Country Ski Tours in Central Oregon* by Virginia Meissner (Meissner Books, 1984; P.O. Box 5296, Bend, OR 97708).





SIERRA CREST, CALIFORNIA

A full spectrum of skiing along the Range of Light



The Sierra Nevada offers an enviable mix of alpine mountain scenery, reliable snow, excellent ski terrain, open forest, easy access, and an unbroken high crest for more than 200 miles. From Carson Pass near Lake Tahoe, south to Mount Whitney and beyond, no plowed roads break up the massif in winter; intrepid skiers can take on the whole enchilada, the Sierra Crest Traverse, roughly following the John Muir Trail. No other range in North America lets skiers tackle such a high-level traverse for so many miles.

Day-trippers can bite off smaller portions of the traverse, poling their way into the range along trails and closed summer roads from the west (state routes 108 over Sonora Pass, 4 over Ebbett's Pass, and 120 over Yosemite's Tioga Pass), or using all-year U.S. Route 395 along the range's precipitous eastern slope to reach short but steep trails to the crest. (North of this "roadless" region skiers will find still more routes for single- or multiple-day ski trips fanning out from the all-weather highways that cut across the Sierra.)

Spring is the best time to take on the Sierra Traverse; the hot sun transforms the white stuff into "corn" snow. Avalanches are normally a worry only during and immediately after storms, since the region's ubiquitous fair weather rapidly settles and stabilizes the snowpack.



For more information read *Backcountry Skiing in the High Sierra* by John Moynier (Chockstone Press, 1992). For tips on shorter trips in the range, check out the four-volume series *Ski Tours in the Sierra Nevada* by Marcus Libkind (Bittersweet Enterprises, distributed by Wilderness Press; 1985). A classic (but out-of-print) volume is *Ski Touring in California* by David Beck (Wilderness Press, 1980). Professional guides include Alpine Skills International, P.O. Box 8, Norden, CA 95724; (916) 426-9108, and Yosemite Cross-Country Ski School, Yosemite, CA 95389; (209) 372-1244. A perfect home base, of course, is the Sierra Club's own Clair Tappaan Lodge, P.O. Box 36, Norden, CA 95724; (916) 426-3632. ■

SPEARHEAD TRAVERSE

British Columbia glacier-hopping



Nothing in the Lower 48 can match the extent of glaciation found in British Columbia's Coast Range. Here, interconnecting icefields tempt skiers looking for the consummate high-altitude ski tour, but most of the icy wilderness is inaccessible. Except at the edge of Garibaldi Provincial Park, that is, where a commercial quirk placed the alpine-ski resorts of Blackcomb and Whistler next to some of the best backcountry ski possibilities in North America.

The quintessential tour here is the Spearhead Traverse, a three- to four-day excursion crossing nine glaciers between the two resorts. The terrain encompasses a spectacular mix of glaciers and peaks, reached directly, albeit mechanically, with a one-way ride up one of Blackcomb's chair lifts. There's a first-come, first-served hut available the first night out, but the rest of the trip you're on your own—and must be able to deal with steep slopes, avalanche hazards, and navigation if the weather deteriorates. It's normally a trip for advanced skiers only (and can be undertaken all winter because of the chair lift access), though in late spring, when the weather is most forgiving and there's little chance of avalanches, it can also be a satisfying trip for intermediate skiers with some mountaineering experience. Required equipment for glacier travel includes avalanche beepers, shovels, light rope, and prusik loops (for "walking" up ropes).

There are also plenty of shorter and easier ski-touring possibilities in Garibaldi Park, including a group of warming huts only 40 miles from Vancouver that serves a beautiful volcanic region of open forests and gentle glaciers.

For more information contact B.C. Parks, Garibaldi/Sunshine Coast District, Box 220, Brackendale, B.C. V0N 1H0; (604) 898-3678. The Canadian Avalanche Association provides information on snow conditions at (800) 667-1105. Lift access into the Spearhead region must be arranged in advance from Blackcomb Resort, (604) 932-3141. Guidebooks include *Exploring the Coast Mountains on Skis* by John Baldwin (John Baldwin, 1983); *The Complete Guide to Cross-Country Skiing in Canada* by John Peaker (Doubleday, 1987), and *A Guide to Climbing and Hiking in Southwestern British Columbia* by Bruce Fairley (Gordon Soules, 1993).

GREEN REVOLUTION

ALL IN ALL, IT'S BEEN A PRETTY TOUGH 14 YEARS FOR AMERICANS seeking to make a buck by protecting the environment, and this factory in the heart of Germany says it all. As wide ribbons of heavy, brown kraft paper unspool from massive rolls onto a production line, a coverall-clad worker stands with his beefy left hand gripping a switch. At his elbow, a constant stream of cream-colored gypsum paste squirts between the kraft sheets, forming an endless plaster sandwich that disappears into a flat, shimmering oven where it is baked to rock hardness. With his back arched and his head cocked, the worker peers down the production line as mile after mile of what Americans call "Sheetrock" or "wallboard" thunders through the factory, bound for building sites in Germany and across Europe to form the walls and ceilings of offices and bedrooms, closets and boardrooms.

Just another factory making one of the thousands of products so common that they are scarcely worth noting, a casual observer might say—but not so. This factory represents the leading edge of a new technological revolution, one that could transform the industrial world from a cauldron of pollution to a relatively safe haven. For this wallboard is made from—are you ready?—air pollution.

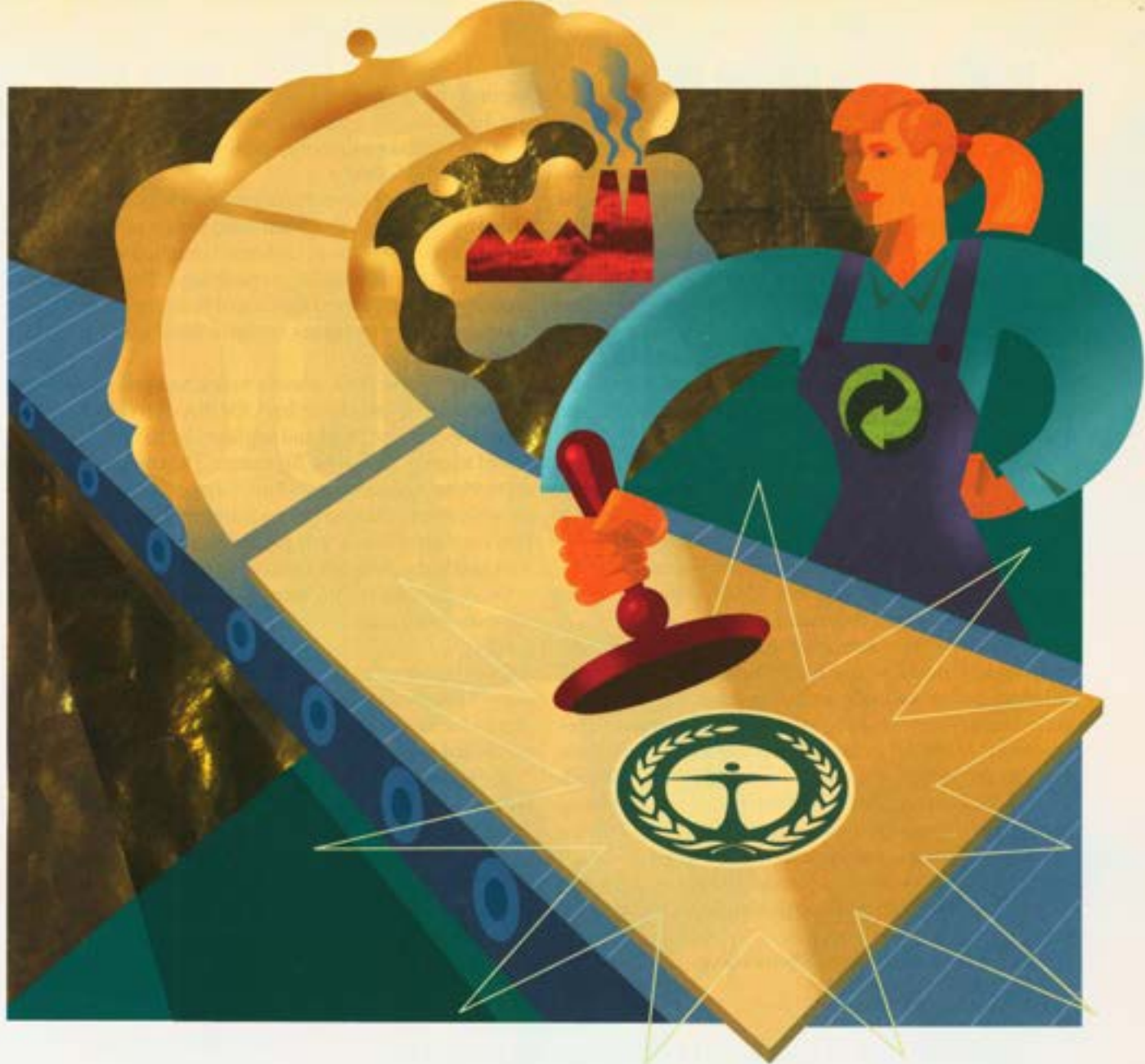
This process of making wallboard, mortar, and other construction materials—and from them, homes and offices—out of the residues of air pollution is emblematic of the innovations that have sprung up as Germany, propelled by a fierce environmental ethic, has leapt to the forefront of the global environmental movement.

The German passion for environmental protection was fueled initially in the late 1970s and early '80s by reports of *Waldsterben*, or "forest death"—the widespread damage to the country's forests caused by air pollution. After that, the meltdown at Chernobyl and mounting fears of stratospheric-ozone depletion and global warming established a firm ecological consciousness, leading the *Los Angeles Times* to comment that in Germany, "environmental correctness has come to rival tidiness and punctuality as a national obsession." As ethically committed as Germany's

**NATIONS LIKE GERMANY
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HAS YET TO GRASP.**

BY CURTIS MOORE

IN THE MAKING



citizens and government are to protecting the earth, they also perceive the process of eliminating pollution as an opportunity to further strengthen their nation's economy.

Already running a close race with the United States as the world's leading exporter of merchandise, Germany is convinced that its environmental regulations, easily the world's most stringent, will stimulate the development of a wide range of new "green" technologies that can be marketed globally just as demand for them is beginning to increase sharply. The Germans also believe that new efforts to curb pollution by boosting efficiency will further reduce operating expenses in their already efficient economy, providing them with a competitive edge over Japan and (especially) the United States.

The homes-from-pollution process illustrates how environmental concerns have stimulated German innovation, causing many of the country's firms not only to launch their own research programs, but to raid the workshops of less-

alert competitors—including the United States, where many of these new technologies were developed. Like any number of other emerging technologies, ranging from super-efficient electrical generators to add-on pollution-control systems, the homes-from-pollution process is a product of Yankee ingenuity. It was originally installed in 1973 at the Cholla I power plant in Arizona during the first wave of air-pollution regulation in the United States, but the process was exported to Germany in 1980, where it has thrived and been perfected. This is how it works:

When coal is burned to generate electricity, prodigious amounts of pollutants pour into the air, including sulfur dioxide, which causes acid rain. Some nations, though not many, require modest controls over these emissions. If the regulations are stringent, scrubbers are usually installed to remove the sulfur dioxide by spraying the exhaust with a watery mist containing limestone. The pollution/limestone reaction produces a sludge that is usually dumped on

the ground or into pits or waterways.

But in Germany, where all power plants are equipped with pollution controls, the sludge can't be dumped because the law prohibits it. Such waste must be put to some use, leaving German power plants with two options: develop a means other than scrubbers to eliminate the air pollution, or find a way to use the scrubber sludge. German industry has done both, yielding two simultaneous streams of innovation, one aimed at developing pollution-control systems superior to scrubbers, the other at devising better ways to use scrubber waste. Both streams not only help make the German economy itself more efficient, but create products that can be sold on the world market, boosting employment and income at home.

When the homes-from-pollution system was exported to Germany in 1980, it was initially marketed by Knauf-Research Cotrell (KRC), a subsidiary of its U.S. developer and Knauf Gypsum. Rapidly improved there in response to the German air-pollution and waste requirements, the technology was acquired in October 1986 by the Salzgitter Group, which now sells the system globally.

One place where the technology has been installed is New Brunswick, Canada, where the 450-megawatt, coal-fired Belledune power station went into operation in 1993. The production of market-grade gypsum was "a fundamental requirement" contained in the specifications for the Belledune plant, in the words of an executive of New Brunswick Power, because it not only solved waste-disposal problems, but was less expensive than competing systems. Thus, a North American innovation traveled to Europe and back again in the space of 20 years (though the profits are being made by Germans) and is selling globally because it is, quite simply, better than the alternatives.

Sadly, the U.S. market for the homes-from-pollution pro-

ing materials for homes and factories. Flowing in the opposite direction, of course, is profit that can be plowed back into the German economy—perhaps to acquire still more products of U.S. origin.

There are other examples of remarkable innovation stimulated by Germany's tough attitudes toward pollution:

- The Ford auto plant in Cologne complied with new requirements by modernizing its paint-spray line, cutting pollution by 70 percent and the cost of painting a car by about \$60—a savings that makes German-built cars marginally more salable.

- The "4P" plastic-film manufacturing and printing plant in Forchheim, where plastic bags for frozen french fries and other foods are printed and stamped by the millions, was forced to cut pollution by 70 percent. The company installed a recycling system that reclaims up to 90 percent of the plant's solvents, saving so much money that the 4P pollution controls will not only pay for themselves, but actually start saving the company money by reducing the cost of solvents. A sister plant with a similar system already recaptures solvents—once again lowering its overhead while increasing profit.

Little wonder that Edda Müller, former chief aide to Germany's minister for the environment, declares emphatically that "what we are doing here is economic policy, not environmental policy."

She is not alone in this view of the future, nor is Germany. For example, Takefumi Fukumizu, U.S. representative of Japan's powerful Ministry of International Trade and Industry, says that industrialists in his country see "an inescapable economic necessity to improve energy efficiency and environmental technologies, which they believe would reduce costs and create a profitable world market."

With virtually no coal, oil, or natural gas, and limited mineral resources, Japan has historically been forced to do more with less than its principal industrial competitors, the United States and Germany. As a result, it makes steel, automobiles, and a wide range of other goods with greater efficiency and less pollution than any other nation. That national thrift and the technologies it has spawned are now global commodities as other nations increasingly search for cleaner, more efficient manufacturing methods and energy use. "The potential profit in such a market," explains Fukumizu, "is limitless."

In the United States, however, governments and businesses alike remain so focused on short-term profits and quarterly earnings that they overlook the true source of long-term wealth: innovation. Necessity breeds invention, and during the 1970s, when protecting the environment and say-

Continued on page 126

IN THE UNITED STATES, GOVERNMENTS AND BUSINESSES REMAIN SO FOCUSED ON SHORT-TERM PROFITS AND QUARTERLY EARNINGS THAT THEY OVERLOOK THE TRUE SOURCE OF LONG-TERM WEALTH: INNOVATION.

cess was destroyed in the 1970s when the federal government allowed utilities to build "tall stacks" for dispersing sulfur dioxide over wide areas—thus creating a new acid-rain problem—rather than requiring them to eliminate it. Even if strict controls on power plants had remained in effect, however, lax waste-disposal regulations might have had the same ultimate impact. In Germany, though, the process has proved so effective and profitable that in 1990 Knauf Gypsum opened a British plant at Sittingbourne-on-Thames, where German air-pollution residues are made into build-

S I E R R A C L U B

1995 OUTINGS



CHAIRMAN'S MESSAGE

Volunteer leaders are the lifeblood of the Sierra Club Outings Program. Every trip in this catalog is being planned and led by one of your fellow Sierra Club members. Leaders donate their time to promote appreciation of wilderness and bring you a memorable outdoor experience. Leaders become involved in our program through a system of training and mentoring that equips them with the skills to plan the great trips our members have come to expect from the Sierra Club.

Four years ago, we instituted a very successful series of nationally-advertised leadership training outings. Participants on these trips "learn the ropes" while enjoying the camaraderie and recreation of an actual trip. This hands-on approach has brought a crop of new, enthusiastic, and energetic leaders into our program. These trips augment our traditional method of training through apprenticeship. In each region of the country, the National Outings Committee provides opportunities for members to get involved in trip leadership.

This year we will be running three national leadership training trips (see "Something for Everyone," page 56, for the listing under "Leadership Training"). We welcome anyone who feels they have the skills and commitment required to lead a Sierra Club outing.

We wish to thank all of our leaders, veteran and new, for the tremendous contribution they make to the Sierra Club. Members volunteering to lead trips for members is one of the things that sets Sierra Club Outings apart from all other wilderness travel programs.

Sincerely,

Don McIver, Outing Committee Chair

PHOTOS WANTED

The Outing Department thanks the photographers who submitted their work for this project. Do you have color slides from a Sierra Club outing? We want to see them! For submission guidelines and deadline information, send SASE to:

Publicity Coordinator
Sierra Club Outing Department,
730 Polk St., San Francisco, CA 94109

IMPORTANT— PLEASE READ CAREFULLY

The Outing Department is currently processing reservations for spring 1995 domestic trips and for all 1995 international trips. We begin processing reservations for summer and fall domestic trips on January 5, 1995. See "Applications" on page 122 for details on how to apply for a trip. We now accept credit card reservations by phone (415-923-5588) and fax (415-923-0636). We need your eight-digit membership number with your trip application. This number can be found on your membership card and on the mailing label of your copy of Sierra.

Make sure you carefully read the Reservation and Cancellation Policy on pages 122 and 123 before applying. Unless you are waitlisted at time of cancellation, you will be liable for cancellation fees. Note also that leader approval is required for all trips.

We strongly urge you to read a detailed trip brochure before signing up for a trip, particularly if this is your first Sierra Club outing, or if you have questions about a trip's suitability to your needs, interests, and abilities. Many trips can accommodate special dietary needs (e.g. vegetarian), while others cannot. Check individual brochures or contact trip leaders about your particular situation.

Most trip brochures will be available January 3. See page 121 for information on ordering them by mail. You can also request brochures (maximum five) by phone at (415) 923-5630 (24-hour voicemail), or by electronic mail at national.outings@sierraclub.org. For information on space availability and questions regarding trip reservations, call (415) 923-5522 between 8:30 a.m. and 5 p.m., Pacific Time.

Sierra Club Outings are led by volunteer Sierra Club leaders. They are non-commercial and are offered as a means of educating our members on the value of wilderness preservation and environmental protection. Service Trips further this goal by protecting and restoring public lands. Sierra Club Outings are not intended to financially support other operations of the Club. Your trip price is composed of the direct costs of operating your trip and an allocated portion of the administrative costs of producing the entire Outing Program. The Sierra Club Outing Department does not operate as a commercial travel agency and does not pay or receive commissions.

Cover photo:
Side canyon, Escalante River, Utah,
by John Dittli

Printed on recycled paper

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SOMETHING FOR EVERYONE

DO YOU THINK SIERRA CLUB OUTINGS ARE JUST FOR HARD-CORE BACKPACKERS? Think again. We have trips for people of all ages, abilities, and inclinations. This quick reference guide lists trips that feature special activities or cater to particular requirements or interests. Don't be limited by what you see here, however. Trips not listed below may still be able to accommodate your preferences or needs. Trips are indicated by catalog section and trip number.

ARCHAEOLOGY

Base Camp 95223; International 95765, 95785 (Europe); 95835, 95855 (Latin America); Service 95083, 95087, 95088, 95291, 95294, 95299, 95316, 95344, 95346, 95361.

ART

Clair Tappaan 95226.

BEGINNER

Activist 95104; Alaska 95114, 95124; Backpack 95422, 95135, 95147, 95148, 95181, 95182, 95196, 95206; Base Camp 95051, 95055, 95213, 95216, 95217; Bicycle 95236; Canoe 95426, 95060; Highlight 95269; International 95785 (Europe); 95845 (Latin America); Raft 95279; Service 95084, 95090, 95286, 95324, 95330, 95346, 95349, 95350, 95353, 95355, 95361; Ski 95428, 95431, 95433.

FISHING

Base Camp 95211; Canoe 95062; Highlight 95269; Service 95290.

GAY & LESBIAN

Base Camp 95219.

HISTORY

Activist 95104; Alaska 95125; Backpack 95134, 95154, 95208; Base Camp 95055, 95223; Clair Tappaan 95229, 95230, 95231; Bicycle 95057, 95233; Family 95248; Highlight 95273; International 95770, 95785 (Europe); Service 95300.

LEADERSHIP TRAINING

Backpack 95142, 95194; Base Camp 95212.

LODGE

(also see Clair Tappaan & International)
Base Camp 95424, 95218, 95219, 95220, 95221, 95225; Family 95069, 95252, 95260; Ski 95427, 95429.

NATIVE AMERICAN CULTURE

Backpack 95034; Base Camp 95053, 95223; Family 95247; International 95835 (Latin America); Service 95087.

NATURE STUDY

Backpack 95144, 95170, 95193, 95206; Base Camp 95050, 95051, 95054, 95043 (bird-watching); Clair Tappaan 95230, 95231; Canoe 95426; Family 95068, 95257; Hawaii 95070; International 95720 (Africa); 95845, 95850 (Latin America); Sail 95074; Service 95332, 95358, 95361.

PHOTOGRAPHY

Alaska 95112; Backpack 95146; Base Camp 95218; Clair Tappaan 95230; Canoe 95059, 95060; Family 95254; International 95720 (Africa).

SENIORS

Activist 95102, 95104; Alaska 95115; Backpack 95166, 95192, 95196; Base Camp 95213; Clair Tappaan 95228; Canoe 95059, 95060; Family 95262; International 95720 (Africa); 95770, 95785 (Europe); Service 95362.

SIERRA SAMPLERS

(four- to five-day backpacks in the Sierra)
Backpack 95131; 95140, 95160, 95196.

SPECIAL NEEDS

Alaska 95122; Clair Tappaan 95228.

TEEN

Backpack 95152; Service 95297.

TWENTY-SOMETHING

Backpack 95140, 95177; Service 95328.

12-STEP

Clair Tappaan 95227.

VAN

Activist 95105; Base Camp 95054; Family 95261; Highlight 95269, 95273; International 95720 (Africa); 95765, 95770 (Europe); 95835 (Latin America).

VEGETARIAN

Activist 95105; Backpack 95034, 95039, 95135, 95138, 95140, 95146, 95148, 95157, 95175, 95189, 95194, 95199; Canoe 95059, 95060; Service 95079, 95089, 95090, 95285, 95295, 95333, 95337, 95362; Ski 95432.

WOMEN

Backpack 95168; Service 95298.

WRITING

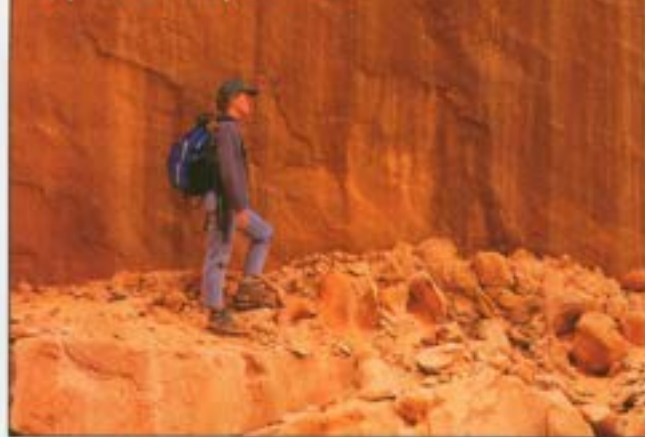
Clair Tappaan 95232.

The Outing Committee welcomes diversity among its trip participants, and has made a strong effort to offer trips suited to individuals of a wide range of abilities and interests. We encourage all people, regardless of age, gender, race, religion, or sexual orientation, to join us in our exploration and enjoyment of the wilderness.

ACTIVIST



ACTIVIST OUTINGS offer members the opportunity to learn the techniques and strategies of environmental advocacy while gaining firsthand knowledge of the exciting scenic, geological, biological, and cultural features of the areas in need of protection. When you apply for an Activist Outing, you make a commitment to bring the skills and information you gain on the trip back to your community, and to apply them to working on the issues you've learned about during your trip. Come prepared to experience the beauty of some of the Earth's most special places, and to learn effective grassroots activism to fight for protection and preservation.



Arctic Wildlife Refuge Backpack: The Land and the Issues, Alaska—June 12–24.

Geared toward aspiring activists for Arctic conservation, this moderately paced backpack will venture from the Arctic Ocean southward into the Brooks Range. A symphony of wildflowers, birds, rivers, and wildlife heralds the return of summer as we cross the caribou migration path. We'll gain firsthand appreciation for this exquisite but threatened wilderness and learn how to be advocates for its preservation.

Charter airfare included. *Leader: Bill Gomez. Price: \$1,495; Dep: \$200. [95101]*

Among the Ancients: Preservation of the Giant Sequoia, Sequoia and Kings Canyon Parks, Sierra—June 24–July 1.

On this camping and van trip to the heart of the Giant Sequoia groves, we will observe the role of fire in Sequoia ecology, witness the devastation from logging, and see the impact of visitors. In Kings Canyon—deepest canyon in the United States—we will visit

pristine groves of these giants. We'll alternate between long hikes and less strenuous days, leave the trip prepared to advocate Giant Sequoia preservation legislation. *Leader: Cal French. Price: \$285; Dep: \$50. [95102]*

British Columbia's Rainforests and Fjords, Canada—August 19–27. Experience the enchanting, still untouched, temperate

and potential, its magnificent resilience, and how to help protect it. Accommodations will be in motels, cottages, or a dormitory. Some meals not included in trip fee. *Leaders: Vivian and Otto Spielbichler. Price: \$575; Dep: \$100. [95104]*

Saving the Pacific Northwest, Oregon and Washington—September 17–24. Join a van



Top, egrets, Everglades, Florida; far left, Capitol Reef Park, Utah; near left, grizzly bear, Denali Park, Alaska.

rainforests of coastal British Columbia. From our 50-foot trawler we'll travel by Zodiac and hike to sacred Heiltsuk Nation cultural sites with our native guide, and visit Ocean Falls, Nascall Hot Springs, Ellerslie Lake, and Jump-Across Inlet. Our senses will be on overload in this clear-cut-threatened country. A conservation commitment to make a difference will come easily! *Leader: Bill Evans. Price: \$1,275; Dep: \$200. [95103]*

Chesapeake Bay: The Nation's Seafood Basket in Trouble, Maryland—September 10–15.

Chesapeake Bay, the country's largest estuary, supports a multitude of sea and land creatures, but its resources are threatened by human activity, pollution, and harvesting pressures. Hosted by the Chesapeake Bay Foundation, we'll focus on human impact as we learn from local experts about the Bay's problems

trip from Opal Creek Ancient Forest to Mount St. Helens, and get a crash course in the environmental issues facing the Pacific Northwest. See the ancient forests and high desert we are trying to save. Visit the monster dams that wreak such havoc on the life cycle of salmon. Witness the regenerative power of nature at Mount St. Helens. Then go home an informed advocate! Overnights are in campgrounds, with hot springs or showers available every other night. *Leader: John Albrecht. Price: \$325; Dep: \$50. [95105]*

Unprotected Wilderness Sampler, Southern Utah—October 7–14.

5.7 million acres of Utah's extraordinary, deserving, and threatened wildlands need your help to win wilderness protection. This combination car-camp/dayhike/backpack tour will include the San Rafael Swell, Aquarius Plateau, Kaiparowits Plateau, Antone Bench, and Granite Mountain. The unforgettable scenery and on-trip activist training will turn you into an effective advocate for this vital Sierra Club wilderness campaign. *Leader: Vicky Hoover. Price: \$345; Dep: \$50. [95106]*

ALASKA & ARCTIC
CANADA

TD EXPERIENCE FIRSTHAND the most extraordinary wilderness areas of this continent, join the Sierra Club on an outing to Alaska or to Canada's Far North. Witness a land of extremes and variety — wild rivers, unpredictable weather, abundant wildlife, and impressive mountain ranges.

You can partake of this bounty by sea kayak or canoe or raft, on foot or on bicycle, with a backpack or more gently from a base camp, or on one of our service trips.

All trips provide a wide range of opportunities for studying a fascinating diversity of wildlife and flora. Conservationists can learn directly about areas that need wilderness protection.

Trips vary widely in terms of physical challenge and required skills, necessary gear, and expense. All trips require flexibility and fortitude. Difficulty ratings have not been assigned, as Arctic trips are a special case and do not correspond to other backpack or canoeing trips.

This year we are pleased to offer a "special needs" sea kayaking trip that can accommodate travelers with disabilities.

Please note that trip fees include air charter transportation costs, so are all-inclusive from your "gateway" city (Anchorage, Fairbanks, etc.).

Snowshoe/Cross-Country Ski Cabin Tour, North Kenai, Alaska—March 25–April 1.

See page 117 for details.
Leader: Duane Ottens. Price: \$1,410; Dep: \$200. [95432]

Glacier Bay Sea Kayak, Glacier Bay Park and Preserve—

June 3–15. Paddle among icebergs to the face of a tidewater glacier, with the 15,000-foot peaks of the Fairweather Range soaring above. Hear the awesome sounds of calving ice from

our campsites. Twenty-foot tides control our pace in this spectacular home of whales, seals, and thousands of seabirds. Basic sea kayak experience required. Kayak rental included in trip fee. Leader: Jack McCarron. Price: \$1,895; Dep: \$200. [95106]

Arctic Wildlife Refuge Backpack, North Slope Cross-Section—June 12–23. Enjoy Arctic birds and flowers, and perhaps caribou, wolves, and more. Our route takes us from the caribou calving grounds of the

coastal plain to the glacier-clad Romanzoff Mountains. Experience 24-hour daylight as we hike 60 miles over tundra and along braided river-courses. This moderately strenuous backpack includes opportunities for exploration as well as layover days. Air charter from Fairbanks included. Leaders: Drew McCalley and Bill Peterson. Price: \$2,095; Dep: \$200. [95109]

Arctic Wildlife Refuge Activist Backpack: The Land and the Issues—June 12–24. See page 57 for details. Leader: Bill Gomez. Price: \$1,495; Dep: \$200. [95101]

Glacier Bay Park and Preserve Service Trip—June 13–23.

We'll be doing maintenance along trails and in the campground at Glacier Bay, home to whales, puffins, bald eagles, and bears. Our camp is in the Sitka spruce rainforest on the shore of the bay. On days off we can kayak, hike, tidepool, charter fishing boats, and travel up bay to see the spectacular tidewater glaciers. Leader: Charlie Reimann. Cook: Steve Lachman. Price: \$495; Dep: \$50. [95110]

Lisburne Peninsula, Western Brooks Range—June 15–26.

In early summer this peninsula at the western edge of the Brooks Range pastures the largest caribou herd in known history. Wolves, grizzlies, and other predators are also unusually well represented. A trek across this spine of the range has yet to be done. From the volcanic pillars of Naniyiksak to the limestone canyons of the Wolk Peaks we will pursue our goal, making first ascents of the major peaks along the way. Leader: Dennis Schmitt. Price: \$2,095; Dep: \$200. [95111]



Midnight Sun Backpack and Leisure Exploration, Arctic Wildlife Refuge—June 22–

July 1. Experience some of North America's most spectacular tundra and mountain wilderness. Early summer is the best time to visit, with flowers in bloom and wildlife abundant. Our moderate route of 20- to 25-mile tundra traverses the glacier-carved mountains of the Brooks Range to the North Slope calving grounds of the Porcupine caribou herd. There will be several



PHOTO © BALTHAS

layover days for exploration and photography. *Leader: Wilbur Mills. Price: \$1,995; Dep: \$200. [95112]*

Tatshenshini/Alesek Rafting and Hiking Expedition, Alaska and British Columbia—June 25–July 3. Called the world's

Top, Denali National Park; left to right: Bartlett Cove, Glacier Bay National Park; Mule Inlet, McBride Glacier, Glacier Bay National Park; Grosvenor Lake, Katmai National Park; Glacier Bay National Park.

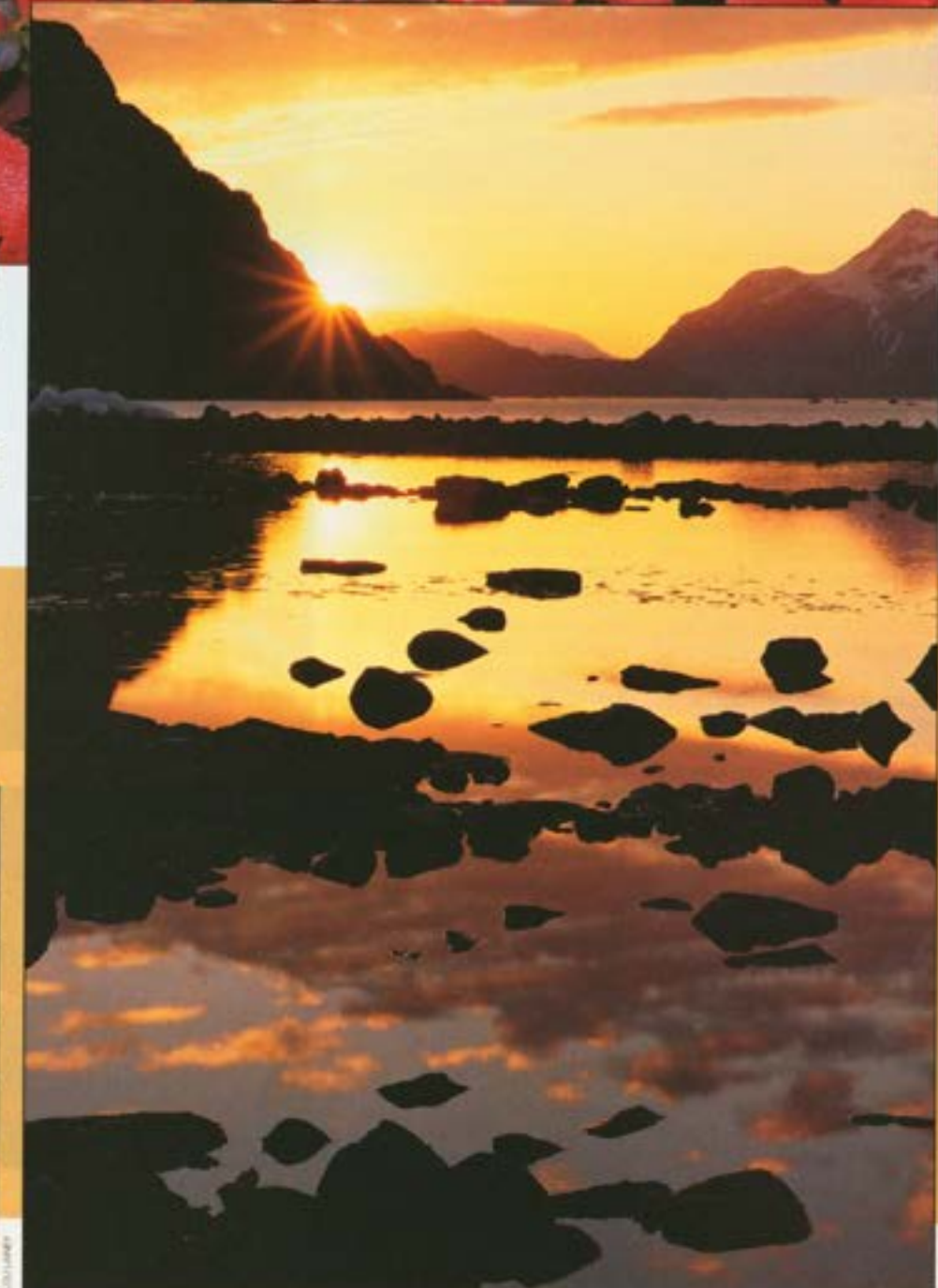


PHOTO © BALTHAS

most scenic river, the Tatshenshini flows out of the subarctic Yukon to join the Alesek and flow into Glacier Bay National Park. Surrounded on all sides by towering peaks, the Tatshenshini is the wildest of the wild. Our 160-mile journey carries us through pristine wilderness, lush forests, and broad valleys where wildlife sightings are frequent. Plenty of time for off-river exploring and photography. *Leader: Bruce Macpherson. Price: \$1,950; Dep: \$200. [95113]*

Kayak the Glaciers, Prince William Sound, Chugach Forest—June 30–July 8. Paddle among the glaciers of Prince William Sound! Join us in this intimate wilderness, from Humpback Cove to Icy Bay. We'll use stable sea kayaks to explore sheltered coves and ice from tidewater glaciers. See how otters, kittiwakes, and whales have recovered from the oil spill. We welcome beginning paddlers. You must be comfortable in a small boat in deep water. Kayak

rental included. *Leaders: Ian Wilton and Martha Schultz. Price: \$1,550; Dep: \$200. [95114]*

Gulf of Alaska Family Base Camp, Chugach Forest—July 22–28. Begin a family exploration of this immense wilderness from our base camp in the Anchorage vicinity. Against the dramatic backdrop of the Chugach Mountains and Prince William Sound, we'll hike near walls of sliding ice, watch bald eagles, hear the call of the Arctic

loon, and fish for Pacific salmon. Using van transport we will visit quaint towns, and take a ride on the Alaska Railroad. *Leader: Susanne George. Price: adult \$635, Dep: \$100; child \$425, Dep: \$50. [95115]*

St. Elias Trail Relocation, Kluane Park, Yukon Territory, Canada—July 22–29. From our Yukon creekside base camp, we'll explore the St. Elias Mountains. The range includes Mt. Logan (19,850 feet), Canada's

ALASKA

highest peak. On work days, we'll construct new trail above Kathleen Lake. *Leader: Judith Harper. Price: \$325; Dep: \$50. [95116]*

Franklin Mountains to the Arctic Coast Backpack and Raft—July 22–August 5. Experience the midnight sun as we backpack a moderately strenuous route across the remote Franklin Mountains. From there we descend by raft to the Arctic plain, watching for caribou, musk ox, and wolf along the river. A relaxed pace and varied modes of travel ensure that we absorb all we can of this timeless yet threatened region. Backpacking experience required. *Leader: Ken Dawdy. Price: \$2,095; Dep: \$200. [95117]*

Alaska Grand Tour: Katmai and Denali Parks—July 23–August 3. Noted Alaska experts Ed and Peggy Wayburn host the second annual John Muir Society Outing to Alaska, this year to Katmai and Denali, two of Alaska's most magnificent national parks. At Katmai National Park we can fish, hike, and watch bears while staying in cabins with private baths. We'll also take a van trip to the awesome Valley of 10,000 Smokes. We then move on to Denali National Park, where we'll enjoy abundant wildlife sightings, naturalist-led walks, and delicious food from our base at North Face Lodge in the heart of the Park. The trip begins and ends in Anchorage. *Coordinator: Carol Dienger. Price: \$3,970; Dep: \$200. [95100]*

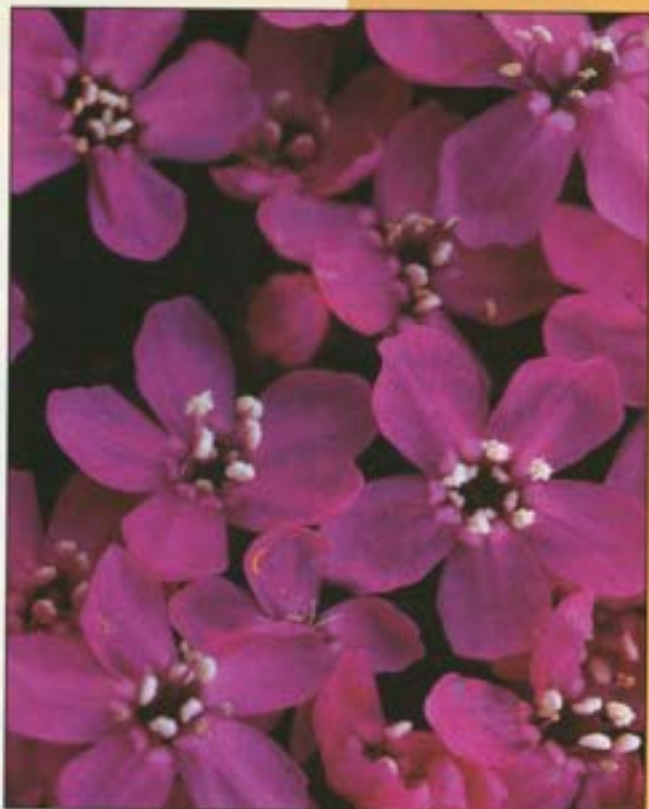
Gates of the Arctic Park Backpack and Exploration—July 24–August 3. After a dramatic float-plane ride from a native fishing village, we will begin our hike up the canyon the Eskimos call Hidden Valley. Our moderate, 28-mile route will take us to the crest of the Brooks Range and return via another valley. Loyer days allow for photography and exploration of side canyons. Our trip may coincide with the beginning of the caribou fall migration. *Leaders: Joan and Bill Busby. Price: \$2,195; Dep: \$200. [95118]*

Chitstone Canyon Backpack, Wrangell–St. Elias Park—July 25–August 4. Chitstone Canyon, with walls that soar over 4,000 feet above the valley floor, has been compared to Yosemite Valley. Our challenging backpack trip follows the historic Goat Trail that was used for centuries by the Athapaskan Indians. Trip includes two days at a scenic mountain lodge from where we'll hike to glaciers and explore Alaska's largest ghost town. Air charter from Anchorage included. *Leader: Gary Aguilar. Price: \$1,950; Dep: \$200. [95119]*

Mountain Biking the Alaska Wilderness—July 27–August 9. Discover the beauty of Alaska by mountain bike! In Wrangell–St. Elias Park we'll ride down the spectacular Copper River Gorge, explore abandoned mines along the Kennicott Glacier, and pedal to the base of 16,390-foot Mt. Blackburn. We'll then head by ferry through Prince William Sound to Seward, working our way north via back-country trails across the Kenai Peninsula. Bike rental not included. *Leader: Donna Poggi. Price: \$1,295; Dep: \$200. [95120]*

Gates of the Arctic/Noatak Canoe Exploration—July 28–August 9. Enjoy natural history, photography, and fishing in this international biosphere reserve. The Noatak River, in the heartland of the Brooks Range, is home to grizzlies, black bears, wolves, foxes, caribou, moose, Dall sheep, resident and migratory birds, and fish. River days alternate with base camps to explore side canyons, peaks, and glaciers. Trip fee includes charter flights and canoe rental. *Leader: Chet Dunbar. Price: \$2,995; Dep: \$200. [95121]*

Special Needs Sea Kayaking, Kenai Fjords Park—July 29–August 4. Dense spruce and hemlock forests, volcanic beaches, waterfalls cascading down sea cliffs, emerald tidewater glaciers—Kenai Fjords offers dramatic Alaskan scenery. This outing will accommodate and encourage participants with special physical needs, plus able-bodied individuals. Together we'll explore small coves and observe the abundant varieties of bird and marine life from safe,



stable double sea-kayaks, while base-camping at Park Service cabins. Screening and special approval required. Kayak rental included. *Leader: Gregg Williams. Price: \$1,195; Dep: \$200. [95122]*

Spell of the North Backpack, Ivvavik, Northern Yukon, Canada—July 30–August 12. Join us on a challenging Arctic adventure from the British Mountains to the Beaufort Sea. Wildlife is abundant—bears, caribou, musk oxen, wolves, foxes, Dall sheep, and a profusion of birds. Few people venture into this pristine national park. We'll explore the tundra, river valleys and

mountains, and smell the sea descending to Clarence Lagoon. *Leader: Sigrid Miles. Price: \$1,750; Dep: \$200. [95123]*

Last Wild Frontier, Phillip Smith Mountains, Arctic Wildlife Refuge—August 3–13. This moderately paced, often rugged cross-country junket allows the avid backpacker to explore one of the last truly wild places left in North America. Inaccessible by foot, float-planes ferry us in to high Arctic lakes. Crossing the Continental Divide in midnight sunlight, we encounter grizzlies, wolves, Dall sheep, caribou, musk oxen, and an astonishing variety of Arctic birds. For expe-



NOTE:
TRIP PRICES
DO INCLUDE
CHARTER AIR
COSTS WITHIN
ALASKA OR
CANADA.

Top left, moss campion;
lower left, Teklanika River,
Denali National Park and
Preserve; above, Alaskan
brown bears, Brooks Falls,
Aleutian Range, Katmai
National Park.

tinuous whitewater stretches in Alaska. We'll also experience the Alaska Railroad from Anchorage to Talkeetna, take an optional plane trip around Mt. McKinley, discover twilight meadows and exceptional photo opportunities, or enjoy a few hours of fishing for

Alaska salmon. *Leader: Jon Kangas. Price: \$1,595; Dep: \$200. [95126]*

Denali Wilderness Service Trip—August 11–21. Enjoy untrammeled beauty, vegetarian cuisine, and amazing wildlife on

this strenuous trip. We'll drive stakes posting the wilderness boundary in this crown of the national park system. The park tour on our last day will include a visit to Wonder Lake. *Leader: Jason Star. Cook: Jasmine Star. Price: \$495; Dep: \$50. [95127]*

rienced backpackers and strong, spirited beginners. *Leader: Patrick Colgan. Price: \$1,950; Dep: \$200. [95124]*

Chilkoot Trail, Alaska, British Columbia, and Yukon Territory—August 6–11. In 1896, gold was discovered near the Klondike River in Canada's Yukon Territory. The shortest way to get there was by the Chilkoot Trail. We will follow the miners' hopes, from Skagway and Dyea up the Golden Stairs and down to Lake Bennett. This is a classic backpack trip. We will return on the White Pass & Yukon narrow-gauge railway back to Skagway (included in trip price). *Leader: Craig F. Miller. Price: \$995; Dep: \$100. [95125]*

Talkeetna Whitewater Rafting, Talkeetna Mountains—August 7–12. Calling adventurous souls! Our 60-mile whitewater journey includes one of the longest con-

ALASKA RAINFOREST



Stretching 1,000 miles from Ketchikan to the southern tip of Kodiak Island, the Alaska Rainforest encompasses many areas that have remained unchanged for millennia. This is a land where enormous glaciers calve icebergs, mountains abruptly ascend thousands of feet, and coastal waters teem with orca, sea lions, otters,

and beluga; where the world's largest bears roam, and moose stand higher than horses.

The devastation caused by the Exxon Valdez spill into Prince William Sound is only one dramatic example of threats to this ecoregion. The boom-bust economic cycle of extractive industries has meant exploitation of precious lands for short-term gain.

Ecosystem viability is particularly threatened by continued rainforest logging. The Sierra Club is working for timber reform for the Tongass and Chugach national forests. A healthy forest can provide a sustainable economy based on fishing, recreation, and a small-scale wood products industry, while unrestrained logging will destroy the chances for long-term environmental and economic health.

The Sierra Club is also working to keep parks, refuges, and forests throughout the western Gulf of Alaska free of developed inholdings, and to see wildlife habitat protected through new wilderness areas and Wild and Scenic Rivers. A number of our Alaska outings visit this remarkable area. Sign up for one today!

BACKPACK



THERE'S NOTHING LIKE THE FEELING OF SELF-sufficiency and freedom you get from carrying everything you need on your back. We offer over 100 opportunities to see wild places in this unique way, with outings designed for everyone from novice to seasoned expert. So whether you want to test your limits or just get your feet wet, you're bound to find a backpack trip to suit your interests.

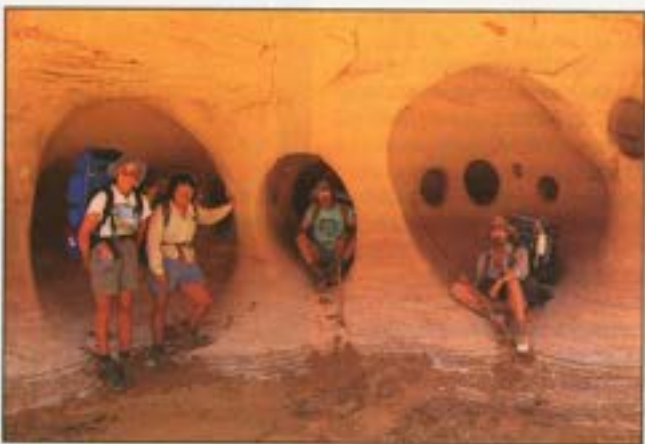
Your enjoyment of a trip will be much greater if it matches your experience and ability. Use the following difficulty ratings to help you choose the right trip. Light (L) trips cover up to 35 miles in four or five travel days, with the remaining layover days to rest or dayhike. The more challenging Moderate (M) trips cover up to 55 miles and often include some cross-country (off-trail) route-finding. Strenuous (S) backpack trips may cover as many as 60 to 70 miles, with greater elevation gains and losses, and may involve continuous high-elevation travel. Light-Moderate (L-M) and Moderate-Strenuous (M-S) are intermediate ratings. Individual trip brochures explain each trip's rating in more detail. Pre-trip conditioning is recommended for all trips.

And if mosquitoes and summer crowds have kept you out of the wilderness until now, consider a backpack trip in the early fall, when the leaves are just turning and the bug population is at a minimum. But whatever time of year you prefer, come experience the camaraderie of trekking through the wilds with a group of Sierra Club so-journers like yourself.

Superstition Wilderness Trek, Tonto Forest, Arizona—February 12-18. Hiking within the Superstition Mountain Range 75 miles east of Phoenix, we'll traverse high Sonoran Desert terrain. Daily hikes will range from six to eight miles over well-marked trails. Famous for the legendary Lost Dutchman Gold Mine, the area provides a wide variety of desert flora, fauna, and geological formations. There will be one layover day. (Rated M) Leaders: Jack and Suzi Thompson. Price: \$395; Dep: \$50. [95031]

Florida Trail Odyssey, Ocala Forest, Florida—February 19-25. Warm your winter-weary bones and escape to Ocala, the southernmost national forest in the continental U.S. Our 37-mile hike on the Florida Trail skirts several ponds and grassy prairies ideal for viewing wildlife. We'll spend one layover day at Juniper Springs, canoeing its clear, twisting stream lined with lush vegetation. Two food caches will lighten our loads. (Rated L-M) Leader: Bill Carroll. Price: \$435; Dep: \$50. [95422]

Superstition Wilderness Trek, Tonto Forest, Arizona—March 5-11. See description for trip



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SEE PAGE 122
FOR DETAILS.



Top, yellow lady's slippers; left to right: Big Sur Coast, California; Paria Canyon, Utah; Zoroaster Temple, Mather Point, Grand Canyon National Park, Arizona; great horned owl.



#95031 above. (Rated M)
Leader: Jay C. Nichols. Price:
\$395; Dep: \$50. [95032]

**Glen Canyon, Southern Utah—
March 11–18.** Join seasoned
canyoneer and author Steve
Allen as we explore a seldom-
visited area of the Escalante.
Our route takes us over the
Kaiparowits Plateau into Twilight
Canyon and Cottonwood and
Llewellyn gulches. We'll climb
through slot canyons and camp
by Lake Powell. (Rated S)
Leader: Bert Fingerhut. Price:
\$495; Dep: \$50. [95033]

**Rainbow Bridge and Navajo
Mountain, Arizona and Utah—
April 2–8.** In the high desert of
the Navajo Reservation, we'll
circle the north flank of 10,388-foot
Navajo Mountain, following un-
maintained trails through wind-
ing sandstone canyons, natural
bridges, and domes. A re-sup-
ply by boat will make our long
first day easier. Other days will
be leisurely, with ample time to
enjoy deep pools, photography,
and exploration. Vegetarian
menu available. (Rated M-S)
Leader: Terry Gustafson. Price:
\$485; Dep: \$50. [95034]

**Coyote Gulch, Glen Canyon
Recreation Area, Utah—April
9–15.** Greet the arrival of spring
in this hidden jewel of the Escalante region. Our 27-mile jour-
ney takes us the full length of
Coyote Gulch, with its streaked
sandstone walls, natural bridge,
arches, waterfalls, fresh springs,
and deep overhangs. We camp
in protective alcoves or cotton-
wood groves. A gentle pace
and one layover day allow us to
absorb the wonders of this spe-
cial place. (Rated L) Leader:
Cathy Underwood. Price: \$525;
Dep: \$100. [95035]

**Easin' Down the Escalante,
Glen Canyon Recreation Area,
Utah—April 9–15.** Starting on
the historic Hole-in-the-Rock
Road, we'll descend gently
through beautiful Harris Wash to
the Escalante, taking plenty of
time to photograph and explore
side canyons in this redrock
wilderness. Expect frequent
stream crossings, warm days,
and cool, crisp nights. Our exit
route through Twenty-Five Mile
Canyon tops off this scenic
week. (Rated M-S) Leader:
Michael Murphy. Price: \$495;
Dep: \$50. [95036]

**Galiuro Wilderness, Southeast
Arizona—April 16–22.** On the
edge of the Sonoran Desert, the
mysterious Galiuro Wilderness is
a primeval mix of mountains and
canyons. Our route will take us
over agave- and cactus-stud-
ded ridges to lushly forested
canyons with running streams
and pools. One of our stops,
the lovely Redfield Canyon, is
protected by the Nature Conser-
vancy. Some cross-country;
elevations between 4,500 and
7,700 feet. (Rated M-S) Leader:
Barry Morenz. Price: \$395; Dep:
\$50. [95037]

**Big Sur Backcountry, Ventana
Wilderness, California—April
21–28.** Our trip takes us into the
heart of the wild and rugged
Santa Lucia Range at what

BACKPACK

should be the peak wildflower season. Our camps will alternate between pine-covered ridge tops with far-reaching ocean views and deep canyons with clear, running streams. We'll cover approximately 45 on-trail miles, plus possible side trips to peaks and waterfalls. (Rated M) Leader: Mark Maslow. Price: \$360; Dep: \$50. [95038]

Paria Canyon Wilderness, Utah and Arizona—April 23–29. Paria Canyon begins in southern Utah and follows the



BOB BUCKNER



BOB BUCKNER

Clockwise from largest photo: North Rim, Grand Canyon, Arizona; Palisade Glaciers, Sierra; Sedona, Arizona; Palisades, Eastern Sierra.

Paria River for 36 miles to Lees Ferry. We'll explore both Buckskin Gulch and Paria Canyon, two of the southwest's most famous slot canyons. The area features geology, petroglyphs and pictographs, dramatic side canyons, wildlife, and abundant



LOREN WALTERS

wildflowers. Two layover days; vegetarian cuisine emphasized. (Rated M) Leader: Jeffrey D. Black. Price: \$525; Dep: \$100. [95039]

Under the Tonto Rim, Tonto Forest, Arizona—April 23–29. Prominent in Arizona's history and in Zane Grey's novels, the Mogollon Rim is "a mountain canted up on one side." Using historical trails through saguaro, piñon, and ponderosa, we will skirt the shoulder of this famous 7,200-foot escarpment at about 6,000 feet, with dayhikes to the top for some of central Arizona's most incredible views. (Rated M+) Leader: Caroline Sides. Price: \$495; Dep: \$50. [95040]

Thunder River and Kanab Canyon, Grand Canyon, Arizona—April 29–May 6. This trip begins with a steep but rewarding nine-mile descent to Thunder River, followed by ex-



APR 1998

plorations of the canyon's treasures: 120-foot Deer Creek Falls, hidden canyons with beckoning pools, the narrows of Jump-Up, and a spectacular panorama as we ascend Kwagunt Hollow to Sowats Point. Experienced hikers only; no layover days. (Rated S) Leader: Gene Glenn. Price: \$495; Dep: \$50. [95041]

The Lost Coast, King Range, California—May 6–13. Spend a delightful week hiking and backpacking along the rugged North Coast and through the primeval redwoods. The weather should be mild, with the rainy season hopefully over and the fog yet to come. We will dayhike two days in Humboldt Redwoods State Park and backpack five days (with one layover) in the King Range. Our route features a historical lighthouse and seals frolicking off shore. (Rated L) Leader: Bob Berges. Price: \$310; Dep: \$50. [95042]

Dark Canyon, Utah—May 13–20. Starting in aspen and fir forest at 8,000 feet, we'll backpack 38 miles and descend over 5,000 feet through this remote, wild canyon, ending in piñon and juniper desert. Following the stream between steep, colorful canyon walls, we'll enjoy pools, waterfalls, and riparian vegetation. We will explore several spectacular side canyons and end the trip climbing a 1,000-foot talus slope. Highly seasoned multi-ethnic cuisine is featured. (Rated M) Leader: Martin Rosenthal. Price: \$495; Dep: \$50. [95044]

Exploring Escalante Canyon, Utah—May 14–20. Come explore Escalante Canyon with its winding passageways, hanging gardens, hidden alcoves, waterfalls, and Anasazi petroglyphs. We will cover six to eight miles per day with very frequent stream crossings. There will be one layover day to savor the intoxicating beauty of the area. (Rated M–S) Leaders: Joseph Sheader and Angela Eyre. Price: \$495; Dep: \$50. [95045]

Exploring the Gila Wilderness Area, New Mexico—May 14–20. Join us in exploring one of the first designated wilderness areas. Beginning at the Gila Cliff Dwellings National Monument

and ending at the catwalk, we travel through rugged canyons, virgin ponderosa pine forests, and the sub-alpine zone of Mogollon Baldy Peak, climbing to over 10,000 feet. Wildflowers, birds, and elk should be plentiful. (Rated S) Leader: Alix Foster. Price: \$580; Dep: \$100. [95129]

Paria Canyon Wilderness, Utah and Arizona—May 14–20. Explore one of the Southwest's most beautiful slot canyons. Winding through Navajo sandstone, we'll see magnificent cliffs, Anasazi petroglyphs, desert flora and fauna. Very frequent stream crossings; two layover days for relaxing; optional dayhikes to Buckskin Gulch and Wrather Arch. Bring a camera and plenty of film to capture this exceptional area. (Rated L–M) Leader: Glen Hampton. Price: \$525; Dep: \$100. [95046]

Early Season Tehipite Valley, John Muir Wilderness and Kings Canyon Park, Sierra—June 3–11. Our hike follows a mid-elevation approach to Tehipite Valley on the Middle Fork of the Kings River, the Sierra's best low country outside Yosemite. In early June we'll witness the color and freshness of the springtime mountain landscape. Three layover days allow time to relax and explore the drama of this spec-

C O L O R A D O P L A T E A U



This is desert canyon country, much of it carved by the Colorado River and its tributaries. Along the margins of the Plateau, high, volcanic tablelands rise to 11,000 feet, supporting spruce forests, aspen groves, and meadows. Stands of

old-growth ponderosa pine cover mid-elevation slopes. This land is rich with Native American cultural and archaeological heritage.

Environmental victories in this area, such as protection for the Grand Canyon and Dinosaur National Monument, are inspiring, while defeats, such as the loss of Glen Canyon, have been devastating. Pressures for development are many—grazing, electricity production, logging, and extraction of uranium, coal, oil, and gas.

The Sierra Club is working with the Utah Wilderness Coalition to enact legislation to protect more than 5 million roadless acres of Utah wilderness. We are working to secure Wild and Scenic River protection for the remaining free-flowing rivers of the Plateau. Our activists are also busy with the issues of mining law reform, grazing, logging, hazardous wastes, and protection of existing parks and forests. Explore this beautiful area on one of the many Sierra Club outings to the canyon country of the Southwest. Note in particular trip #95106, the Utah activist outing, described on page 57.

BACKPACK

taular river canyon. (Rated M)
Leader: Lou Argyres. Price:
\$370; Dep: \$50. [95130]

Yosemite North Rim Sampler, Sierra—June 5–9. A late spring stroll from Yosemite Valley up to the north rim and back down are just what you need to get your hiking lungs and legs in shape. Visit El Capitan, Eagle Peak, and the top of Yosemite Falls. Enjoy a unique glimpse of Bridalveil Falls. Late snow may make this trip more difficult than projected. (Rated L–M) Leader: Bob Berges. Price: \$235; Dep: \$50. [95131]

Hiking the Trinity Alps, California—June 16–25. The Trinity Alps are a compact mountain range with glaciated granite peaks, waterfalls, lakes, and deep forest. This paradise is ours to explore and enjoy for a full ten days. This moderate loop with three layover days allows the ambitious to climb peaks while the rest of us enjoy the scenery, fish, or swim. A food drop halfway will keep our backpacks light. (Rated M) Leader: Modesto Piazza. Price: \$440; Dep: \$50. [95132]

Kern Peak, Golden Trout Wilderness, Sierra—June 17–25. Enjoy a week in the southern Sierra's Golden Trout Wilderness. See flowers, open grasslands, and lazy creeks in meadow and hill country east of Kern Peak. Go up Long Canyon, visit Strawberry and Templeton meadows, then cross Toowa Range to Redwood Meadows. Two layovers and several short days allow nature walks, fishing, and hiking. Packer eases first day: 38 miles. (Rated L) Leader: Mac Downing. Price: \$425; Dep: \$50. [95133]

Olympic Expedition, Olympic Peninsula, Washington—June 21–29. Relive a very special moment in history. We will spend eight glorious days, including two layover days, following in the footsteps of the first explorers to cross the Olympic Peninsula. Join us as we use their journal to guide us along the Elwa River, over Low Divide, and through the Quinalt rainforest.

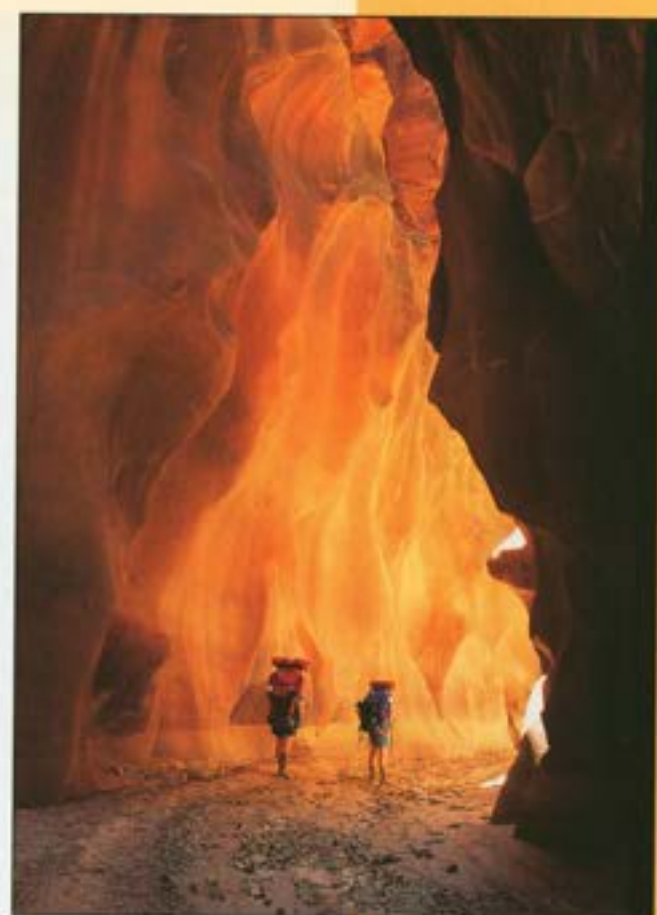
We will end our expedition, and spend our last evening together, at the beautiful Lake Quinalt Lodge. (Rated M) Leader: Jim Kirkpatrick. Price: \$545; Dep: \$100. [95134]

Spring Magic, Sixty Lakes in High Sierra Bloom, Kings Canyon Park, Sierra—June 25–July 3. Join us for a High Country spring celebration in Sixty Lakes and Gardiner basins. Over nine days we will restore body and spirit as we explore the less traveled paths of the mighty Sierra. Along the way we will find personal solitude, help each other over the hurdles, sharpen our orienteering skills, and bask in the beauty of the prolonged alpine glow. (Rated M) Leader: Alon Chaver. Price: \$355; Dep: \$50. [95135]

Wild Iris Circle, Pecos Wilderness, New Mexico—June 26–July 2. On this llama-assisted trek, we hope to enjoy the height of wildflower season in the Southern Rockies. We plan for two or three layover days to explore the flora and fauna that adorn the meadows of this alpine wonderland. We can enjoy longer daylight hours, fewer rain showers, and moderate temperatures. (Rated M) Leaders: Gretchen and Brian Johnson. Price: \$580; Dep: \$100. [95136]

Soul of the Sierra, Ansel Adams Wilderness, Sierra—June 29–July 6. This early season hike aims for the rugged timberline country of the Ritter Range and Merced-San Joaquin Divide on a 50-mile loop trip from Devils Postpile. Our cross-country route will be challenging and memorable. Seeking the essence of these mountains, from Banner Peak to Blue Lakes and from Isberg Pass to Iron Creek, we'll touch the soul of the Sierra. (Rated S) Leader: Scott Kingham. Price: \$370; Dep: \$50. [95137]

On the Rim, LeConte Divide, John Muir Wilderness, Sierra—June 29–July 8. Starting at Wishon Reservoir, we will cross the North Fork of the Kings and climb to the rim of LeConte Divide. We'll spend two days each at misnamed Disappointment Lake and at Davis Lake, offering the adventurous a chance to



climb Red Mountain and Mt. Henry, or to view the panorama of Mt. Goddard from Hell-for-Sure Pass. (Rated L–M) Leader: Diane P. Cook. Price: \$405; Dep: \$50. [95138]

Round Valley Sampler, Tahoe Forest, Sierra—July 4–8. Close your eyes and imagine you've just backpacked three and a half miles to camp in a wondrous valley at the foot of a 9,100-foot peak near Donner Pass. Then conjure a vision of

watching clouds or ambling to nearby lakes without backpack, until it's time to pack out. Now open your eyes and sign up for a great time in Round Valley! (Rated L) Leader: Bob Maynard. Price: \$205; Dep: \$50. [95139]

Twenty-Something Sierra Sampler, Hoover Wilderness and Yosemite—July 5–8. Join an enthusiastic group of 21- to 29-year-olds for a challenging, on-trail hike through meadows, into timberline, and over alpine



Clockwise from above left: Paria Canyon, Utah; Olympic National Park, Washington; Claret cup cacti, Arizona; North Goddard Creek, Sierra.

terrain. On our four-day excursion, fit novices and experienced backpackers will get a taste of the high country. A layover day promises relaxation, swimming, or peak-bagging. This trip will feature vegetarian cuisine and regional conservation issues. (Rated M) Leader: Tony Rango. Price: \$235; Dep: \$50. [95140]

Absaroka Ambles, Montana—July 5–14. Pristine lakes separated by alpine wildflowers so thick they form mats. High canyon walls enclose thundering water below remnants of glaciers that carved stunning valleys. Established trails will guide us up these valleys to cross-country routes over high plateaus. This area adjacent to Yellowstone will challenge our senses as well as our bodies. (Rated M–S) Leader: Roger Grissette. Price: \$510; Dep: \$100. [95141]



Leadership Training, North Cascades, Washington—July 9–15. The North Cascades is the site of the first Sierra Club leadership training seminar in the Northwest. Applicants committed to leadership in the National Outing Program are encouraged to participate. Comprehensive leadership skills required; see trip brochure for qualification criteria and trip-fee reimbursement policy. (Rated L) Leaders: Peter Bengtson and Jim Kirkpatrick. Price: \$395; Dep: \$50. [95142]

Granite Park, John Muir Wilderness, Sierra—July 9–18. Explore the remote areas of Granite Park, Bear Lakes Basin, and Lake Italy. Experience the challenge and isolation of extended cross-country travel above timberline. Ascend 13,000-foot peaks, or enjoy their magnificence from the serenity of a nearby lake. Join us for ten days of adventure packed with beautiful Sierra scenery, great food, and camaraderie. (Rated M) Leader: John Pandolfo. Price: \$435; Dep: \$50. [95143]

Treasures of a King, John Muir Wilderness and Kings Canyon, Sierra—July 10–17. Rediscover the king's treasures—alpine lakes and meadows that fill the glacial tracks descending from the granite walls of Mt. Clarence King. Beginning high in the east, we'll negotiate a 45-mile route, stopping for two layover days. You'll have opportunities to climb and fish, and to learn natural history, wilderness skills, and no-trace camping. (Rated S) Leaders: Lety and Cal French. Price: \$340; Dep: \$50. [95144]

Bishop to Taboose, John Muir Wilderness and Kings Canyon Park, Sierra—July 14–22. This spectacular, 45-mile route parallels the Sierra crest between two major passes. Entering the beautiful high country over Bishop Pass, our group will hike by 14,000-foot peaks, explore sculpted alpine lakes, and camp in remote granite basins. Our route finishes with a rugged descent from Taboose Pass. Much of the trip is off-trail, but at a comfortable pace, with numerous opportunities for peak-bagging. (Rated M–S) Leader: Lasta Tomasevich. Price: \$410; Dep: \$50. [95145]

The Pacific Crest, Ansel Adams Wilderness and John Muir Wilderness, Sierra—July 15–22. Starting at famed Devils Postpile, we will hike about 50 miles of the John Muir/Pacific Crest Trail that lies between Yosemite and Kings Canyon parks. Staying at high altitude, we will stop to enjoy alpine lakes and Sierra panoramas. We may even have time to climb a peak or two. Bring your cameras and

BACKPACK

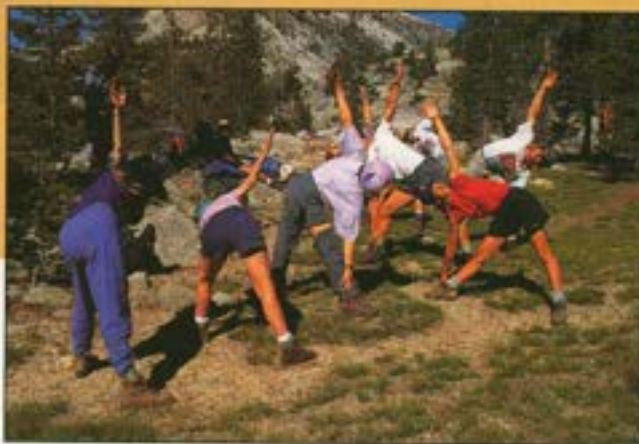
be prepared to swim. Vegetarian menu. (Rated M) Leader: Mark Taylor. Price: \$310; Dep: \$50. [95146]

Backpack Field Seminar, John Muir Wilderness, Sierra—July 16–22. This educational backpack trip is for any physically active person regardless of previous experience. Learn how you can be properly prepared and equipped to enjoy our moderate trail and cross-country backpack adventure. Pre-trip correspondence and on-trip instruction will include personal equipment selection, trip difficulty, map-reading, first aid, equipment repair, and planning for

Mount Zirkel Wander, Colorado—July 16–22. The Mount Zirkel Wilderness includes a wide range of ecosystems: miles of river valley with meadows and forests in contrast with the rugged peaks of the alpine high country. Binoculars in hand, we will explore and observe the biological and geological diversity of the area. Over 200 species of birds live here. We'll have two layover days for peak-climbing and fishing. (Rated L–M) Leader: Barbara Beaumont. Price: \$435; Dep: \$50. [95149]

West Elk Wilderness, Colorado—July 16–22. Explore the place that has it all—volcanic ridges cut by long valleys, beaver ponds and aspen forests beneath castellated spires, herds of deer and elk. One of Colorado's original wilderness

Below, Tuolumne River, Yosemite; above right, Cathedral Rocks, Yosemite Valley; below right, Evolution Valley, Kings Canyon Park; far right, petroglyph, Olympic National Park, Washington.

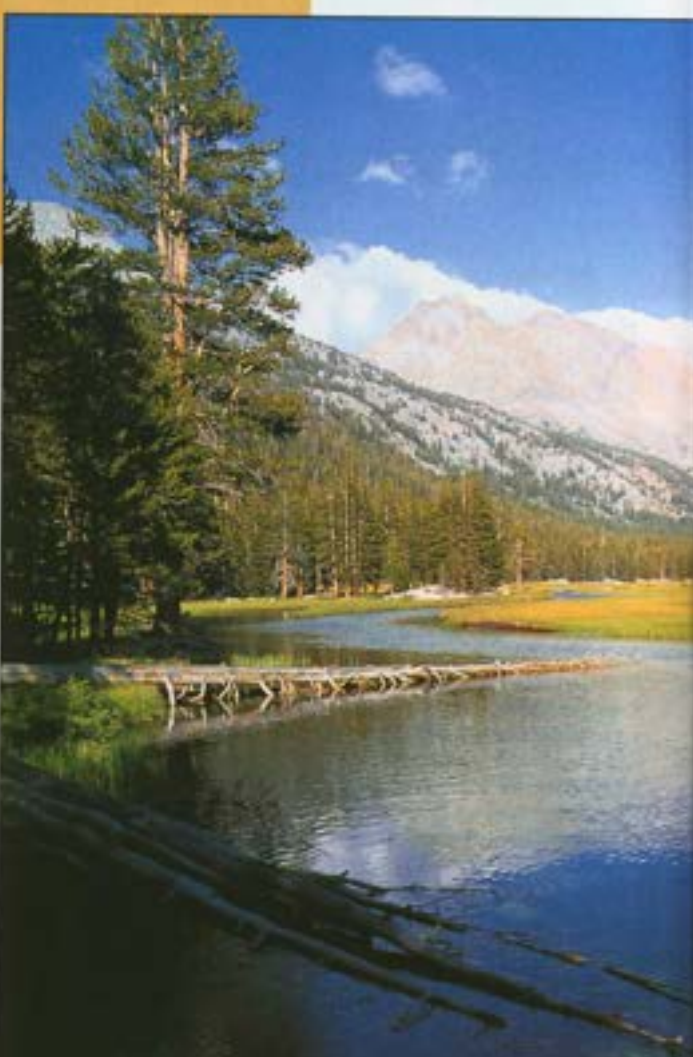
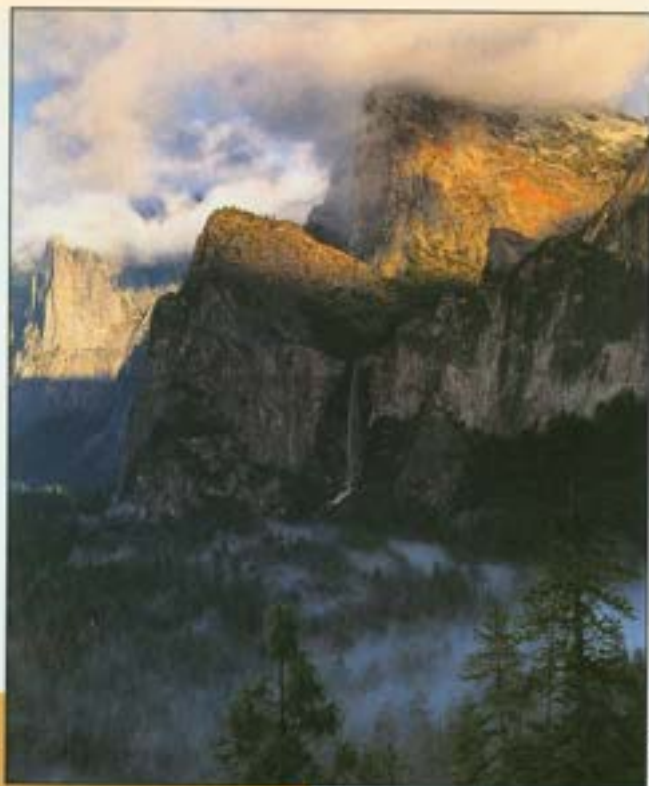


emergencies. (Rated M) Leader: Gordon Peterson. Price: \$290; Dep: \$50. [95147]

Holy Cross Wilderness, Vail, Colorado—July 16–22. Our route includes alpine lakes and meadows, great views, 12,000-foot passes, and lots of waterfalls. Abandoned gold mines and a ghost town are reminders of the Old West. Come see beautiful streams and glacial valleys, threatened by the Home-Steal II Water Act. Conditioned beginners as well as more experienced hikers welcome. Delicious vegetarian food. (Rated M) Leader: David Eisele. Price: \$375; Dep: \$50. [95148]

areas, it receives relatively few visitors. Our shuttle trip will cover 40 miles in six hiking days of six to nine miles each, with one layover. Campsites at 9,600 to 11,200 feet. For experienced backpackers. (Rated M–S) Leader: Gene Goldberg. Price: \$400; Dep: \$50. [95150]

Swimming Holes of the Ice Age, Yosemite Park, Sierra—July 16–23. Water, water everywhere! Join us in leisurely hiking and swimming through pine-forested granite basins. Several cross-country days are interspersed with layover days. Swim every day in pristine lakes formed by halting glaciers of the



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Ice Age. Discover the source of the first Sierra Nevada water to travel to the young city of San Francisco. (Rated L-M) Leader: Bob Ruff. Price: \$425; Dep: \$50. [95151]

Teen Backpack, Emigrant Basin Wilderness, Sierra—July 17–24. How about a moderately paced backpack trip during your summer vacation? No experience necessary—we'll teach you basic wilderness survival and how to travel cross-country via map and compass. Lots of time for optional, non-technical peak-climbing, swimming, fishing, or snoozing. Primarily for mature teenagers (14 to 17) in reasonably good physical condition who like hiking and camping. Older teens and even parents welcome. (Rated M) Leader: Patrick Colgan. Price: \$340; Dep: \$50. [95152]

Dusy of a Trip, Kings Canyon Park, Sierra—July 20–29. The lakes of Dusy, Palisades, and

Upper basins provide the backdrop for our cross-country trek through one of the most spectacular high country areas of the Sierra. Layover days provide ample time for fishing and peak-bagging. This challenging trip has plenty of staying power as we travel over one high pass to another, each with its own startling panorama. (Rated S) Leader: Stuart Simon. Price: \$460; Dep: \$50. [95153]

Enchanted Gorge Centennial, John Muir Wilderness and Kings Canyon Park, Sierra—July 20–30. In the summer of 1895, Theodore Solomons (a Sierra Club charter member) and Ernest Bonner made the first recorded passage through the Enchanted Gorge into the Middle Fork of Kings Canyon. We'll make a commemorative visit of this remote locale, tackling several classic High Sierra off-trail challenges on the way. Our efforts will be abundantly rewarded by the surrounding

mountain grandeur. (Rated S) Leader: Matt Hahne. Price: \$425; Dep: \$50. [95154]

Eye of the Goose, Mahoosuc and Baldpate Ranges, Maine—July 23–29. From Goose Eye to Moody, you'll hike through two of the most scenic mountain regions of Maine, including Mahoosuc Notch. Cross 4,000-foot peaks, dine on wild blueberries, stare at a moose, sleep with the laughter of a loon echoing in your ears! You'll backpack a lonely, forested wilderness our pioneer forefathers once enjoyed. So will you. One layover day. (Rated M-S) Leader: Janice Birbaum. Price: \$410; Dep: \$50. [95155]

Mono Divide Deluxe, John Muir Wilderness, Sierra—July 23–29. Our 37-mile, partly cross-country route from Rock Creek to Pine Creek explores forested glacial recesses, alpine lakes and meadows, and crosses three passes above 12,000 feet.

Two layover days in "timberline country" at Pioneer Basin and Lake Italy allow time for fishing or climbing several peaks over 13,000 feet. A packer assist lightens our load the first day. (Rated M-S) Leader: Jack Wickel. Price: \$395; Dep: \$50. [95156]

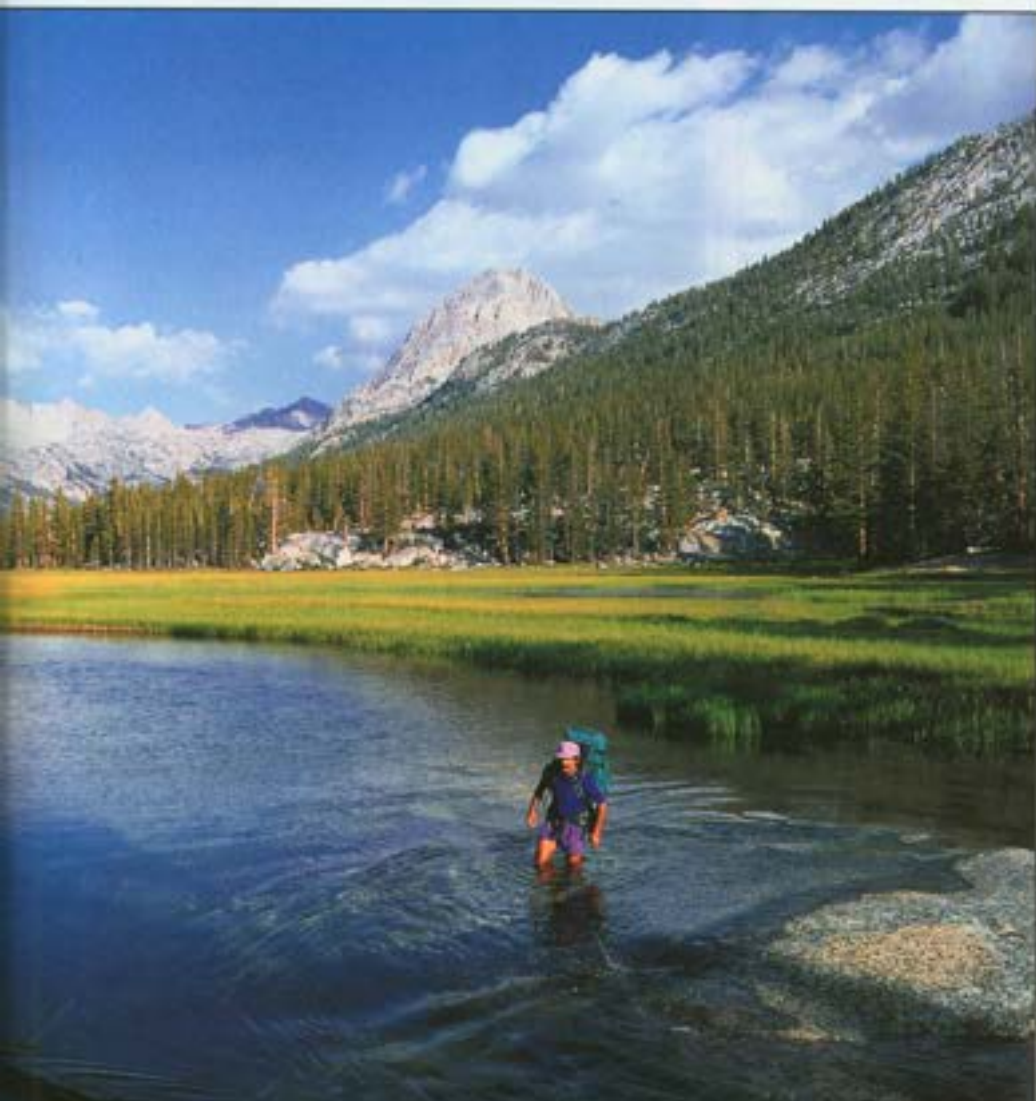
Wilderness Retreat on the Great Western Divide, Sequoia Park, Sierra—July 23–29. A 22-mile loop through colorful lake basins on both sides of the



Divide above Mineral King will be the setting for our growing awareness of inner and outer harmony, as we begin each day with meditation and stretching, eat good vegetarian food, and move, at times silently, through the country. Evenings, we'll discuss physical, mental, and spiritual health topics. Two layover days. (Rated M) Leader: Frank Moe. Price: \$330; Dep: \$50. [95157]

Northern Grand Teton Park, Wyoming—July 23–30. Hike by dramatic peaks, ford creeks, and wander the canyons of the little known Northern Teton Range. We will be hiking the trails of Berry Creek–Webb Canyon Country. Our days will be seven to nine miles, with two off-trails days to explore isolated, high-country lakes. Be prepared for a hardy experience at a moderate pace, high elevation, and off-trail hiking. (Rated M) Leader: Chris Memman. Price: \$530; Dep: \$100. [95158]

San Juan Mountains, Weminuche Wilderness, Colorado—July 23–30. Experience the rugged Needle Mountains, cascading creeks, wildflowers, mountain goats, and top-of-the-world views of the Weminuche



BACKPACK

Wilderness. We'll explore 13,000-foot passes, 14,000-foot peaks, and alpine lakes and meadows, and ride the narrow-gauge railroad out to historic Silverton. Steep, cross-country ascents and descents at high altitude and three long, on-trail days require top physical condition. (Rated M) *Leader: Lee A. Kintzel. Price: \$565; Dep: \$100. [95159]*

Lillian Lake Loop Sampler, Ansel Adams Wilderness, Sierra—July 24–28. Start with the Ansel Adams Wilderness, which contains some of the Sierra's prettiest lakes and most magnificent scenery. Add mostly short hiking days with plenty of time to swim, fish, rest, and explore. Mix in gourmet food and a dash of cross-country to make things interesting, and you've got a Sierra sampler trip fit for a king or queen! (Rated L-M) *Leader: Sy Gelman. Price: \$225; Dep: \$50. [95160]*

Up the Granite Stairway, Ansel Adams Wilderness, Sierra—July 24–August 1. Below Yosemite from U.S. 395, an awesome view emerges—that of the solemn Ritter Range with its spine of minarets. This imposing spectacle is our magnet for nine days. We first visit the front country of magnificent lakes, then cross over to a wilder back side. The outing covers 40 miles in seven hiking days, while spending two layovers in secluded areas. (Rated M) *Leader: Jim Waters. Price: \$355; Dep: \$50. [95161]*

Blackcap Caper, John Muir Wilderness, Sierra—July 24–August 2. Treat yourself to a low-key, high-elevation exploration of Upper Bench Valley and Blackcap Basin just west of the LeConte Divide and Kings Canyon. Expect the best the Sierra has to offer—awesome scenery, swimming holes by the dozen, delicious food, great companions, and more. This 49-mile trip includes some cross-country, two layover days, and a mid-trip packer drop. (Rated L-M) *Leader: Patty Blasca. Price: \$480; Dep: \$50. [95162]*

The Essential Muir, Kings Canyon Park, Sierra—July 27–August 3. Plute Pass and Alpine Col will be our doors into the Evolution country of northern Kings Canyon on this spirited interpretation of the classic North Lake–South Lake loop. We'll explore Darwin Canyon, then find our stride on the famed Muir Trail along its most impressive section. For experienced John Muir Trail hikers as well as longtime dreamers. (Rated M-S) *Leader: Scott Kingham. Price: \$390; Dep: \$50. [95163]*

Wounded Man Creek, Absaroka–Beartooth Wilderness, Montana—July 28–August 5. The classic alpine beauty of the Beartooth Mountains makes them a favorite among backpackers and mountaineers. Moose, mountain goat, and game trout abound in this land of Montana's highest peaks, alpine plateaus, and unspoiled lakes. Our 55-mile route is entirely on-trail up Wounded Man Creek, and across the Lake Plateau. Trip fee includes round-trip transportation from Billings. (Rated M) *Leader: Dwight E. Taylor. Price: \$585; Dep: \$100. [95164]*

Tunemah Trail to Tehipite, Kings Canyon Park and John Muir Wilderness, Sierra—July 28–August 6. This trip wanders from the high, rock-bound basins of the central Sierra Nevada to one of its deepest canyons. Our big thrill is a descent into the spectacular abyss of the Middle Fork of the Kings. We'll visit two remote gems deep in the core of the Sierra—Simpson and Tehipite meadows. Our approach from the Sierra's gentle west side features cross-country travel. Three layover days planned. (Rated M-S) *Leader: Vicky Hoover. Price: \$385; Dep: \$50. [95165]*

Alpine Lakes, Ancient Rainforest, and Wilderness Seacoast, Olympic Park, Washington—July 30–August 6. All this and a layover day? Where else but Olympic National Park! Sample this incredible variety on a four-day, 26-mile trip through the Seven Lakes Basin–High Divide high country and Hoh rainforest. After a shower and soak at Sol Duc Hot Springs, we go another

four days and 14 miles along the rugged north end of the park's coast strip. Shuttle bus fee not included in trip price. (Rated M) *Leader: Dunbar Susong. Price: \$335; Dep: \$50. [95166]*

Kid Lakes Cross-Country, Kings Canyon Park, Sierra—July 30–August 6. Exhilarating cross-country hiking defines this eight-day, 40-mile trip. We'll follow a string of high lakes along the glaciated Monarch Divide, and eventually reach the remote Kid Lakes Basin. Most of our hiking is at timberline, and we'll have at least one layover day. Leave the trail-bound crowds behind and join us for thrilling hiking, secluded settings, and delicious food. (Rated S) *Leader: Andy Johnson. Price: \$295; Dep: \$50. [95167]*

Fish Creek and Silver Divide, John Muir Wilderness and Ansel Adams Wilderness, Inyo Forest, Sierra—July 31–August 7. This eight-day wander features a wide variety of Sierra terrain—from streams and forest to alpine meadows and peaks, plus natural hot springs we can luxuriate in. Mules carry our food load the first day. We'll hike from Marmoth Lakes to Devils Postpile, with some cross-country travel. Two layover days will give us time for peaks and exploring. Fishers—bring your gear! (Rated L-M) *Leader: Jim Gilbreath. Price: \$380; Dep: \$50. [95169]*

The Solomons Trail, Yosemite Park and Ansel Adams Wilderness, Sierra—August 1–9. The



Women's Beginner Backpack, Ansel Adams Wilderness, Sierra—July 30–August 6. Beginners and experienced backpackers alike will find magnificent views within easy reach in this lake-studded wilderness just south of Yosemite. Elevations range from 7,000 to 10,555 feet over our 25-mile ramble. We'll hike short distances on- and off-trail, with some rock-scrambling, leaving most afternoons free to relax, explore, and perfect wilderness skills. Good physical preparation is required. (Rated L) *Leader: Carol Hale. Price: \$310; Dep: \$50. [95168]*

Theodore Solomons Trail is a seldom-trod route parallel to the John Muir Trail. We will explore 72 miles of it through forested valleys, sparkling lakes, cascading streams, and great river chasms with their uncrowded campsites, abundant wildlife, and superb fishing. A professional naturalist will accompany us from Glacier Point to Florence Lake. Our highest elevation will be 10,200 feet at Fernandez Pass; our highest camp will be at 8,800 feet on our layover day. (Rated M) *Leader: Melinda Goodwater. Price: \$355; Dep: \$50. [95170]*

Bear Lakes and Hot Springs, John Muir Wilderness, Sierra—August 4–13. The area east of the John Muir Trail and south of Mono Creek is the remote Bear Creek Country. Three 12,000-foot passes, eight "bear" lakes, six nights above 10,000 feet, and a relaxing hot spring will fill you with awe. Eighteen miles off-trail and two layovers will provide the experienced backpacker with unforgettable solitude, beauty and fishing on this 45-miler. (Rated M) *Leader: Barry Bolden. Price: \$410; Dep: \$50. [95171]*



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Above right, Kings Canyon, Sierra; below, left to right: Hoover Wilderness, Sierra; Acadia, Maine: mussel bed, Olympic Park, Washington.



Alpine Contrasts: Granite and Grass, John Muir Wilderness, Sierra—August 6–12. The stark, expansive granite of Plute Pass and Royce Lakes contrasts sharply with the green, grassy meadow near Meriam Lake, an emerald of the mid-Sierra. Few hikers visit this high-elevation lake, which is our mid-trip layover destination. Another layover provides opportunity for peak-bagging or lake-lounging. Some cross-country travel makes this trip appropriate for sure-footed backpackers and well-conditioned beginners. Bring a hearty appetite for our diverse Sierra cuisine. (Rated M) *Leader: Charles W. Hardy. Price: \$395; Dep: \$50. [95173]*

Baxter Park Ponds and Peaks, Maine—August 6–12. Moose grazing in a rocky pond; loons, golden-eyes, and Canada



Crossing the High Divides, Kings Canyon Park and Sequoia Park, Sierra—August 4–13. Our primarily off-trail adventure will start us up Sphinx Creek and parallel the Great Western Divide. We will cross the Divide and explore the awe-inspiring peaks and high lake basins of the Kings-Kern Divide. Our layover days will offer us Mt. Brewer with its splendid views in all directions, beautiful Lake South America, and a thrilling climb up Mt. Stanford. (Rated M-S) *Leader: Mari Cahoun. Price: \$445; Dep: \$50. [95172]*

geese floating on a lake; rocky peaks reached by scrambling up granite ridges—this is the domain of Katahdin. We'll experience the awesome beauty of this park, dayhiking to peaks and backpacking between ponds, staying in lean-tos at night. Average daily distance seven miles; maximum climb 2,300 feet. (Rated M) *Leader: Ken Limmer. Price: \$550; Dep: \$100. [95174]*

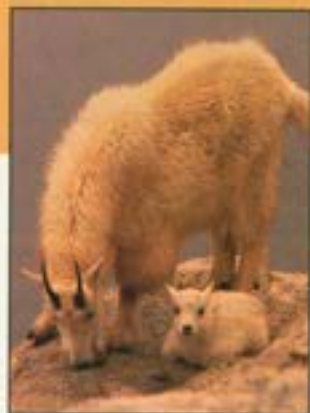
Continental Divide, Zirkel Wilderness, Colorado—August 6–12. Hike above timberline and past wildflowers on the

Continental Divide Trail. Our camps are nestled near lakes and trees for great swimming, birding, and exploring. We will average 8 to 12 miles per moving day and enjoy two layover days. The trip begins and ends at Buffalo Pass (10,000 feet). (Rated M-S) *Leaders: Joanie Hoffman and Nancy Backus. Price: \$415; Dep: \$50. [95175]*

Hiking and Floating the Salmon River, Idaho—August 6–12. Want something different? This may be it. We'll enter the seldom visited Gospel Hump Wilderness area at about 7,000



Above, Palisade Glacier, Sierra; left, mountain goats; above right, Soleduck Falls, Olympic Park, Washington.



MARK S. HANCOCK

Twenty-Something Colorado Adventure, Vail to Silverthorne—August 6–12.

Share an unforgettable experience with fellow 20-something Sierra Club members. Ours promises to be an exciting trek across the Gore Range in Eagles Nest Wilderness, one of Colorado's most beautiful mountain ranges. Lush forests of evergreen and aspen surround this challenging trail. We will climb over 12,000 feet as we leisurely seek out the area's numerous alpine lakes, streams and waterfalls. Required—an adventurous spirit, an open mind, and a conditioned body. (Rated M-S) Leader: Greg Chavez. Price: \$370; Dep: \$50. [95177]

feet, then make our way down to the River over the course of several moderate hiking days. En route we will meander past lakes, peaks, vistas, and valleys. The final day will be a float trip down the river explored by Lewis and Clark, to Riggins, Idaho. (Rated L-M) Leader: Jim Halverson. Price: \$460; Dep: \$50. [95176]

Across the Monarch Divide, Kings Canyon Park, Sierra—August 6–13.

Our 42-mile trail and cross-country loop starts from Cedar Grove in the beautiful canyon of the Kings. We will climb over Kennedy Pass (10,800 feet) and then traverse east, exploring the many glaciated basins, lakes, and ridges of the Monarch Divide. One layover day in the secluded alpine basins of the Cirque Crest allows time for exploration, relaxation, and peak-bagging. (Rated M-S) Leaders: Frances and David Reneau. Price: \$315; Dep: \$50. [95178]

Mammoth and Postpile Leisure Loop, John Muir Wilderness, Sierra—August 6–13.

Join us on a leisurely tour of the Mammoth backcountry. Our 30-mile journey will encompass scenic Duck Pass, beautiful Purple Lake, and lively Fish Creek. Plenty of time to fish,

photograph, or snooze. A relaxing soak at Iva Bell Hot Springs will energize us for our ascent to Devils Postpile. A packer assist will lighten our load the first day. (Rated L) Leader: Monava C. Athan. Price: \$425; Dep: \$50. [95179]

High in the Winds, Fitzpatrick Wilderness, Wyoming—August 6–14.

Join us in exploring the glaciers, peaks, and lakes of the Wind River Range. Climb to the Continental Divide above Ross Lakes, then travel cross-country through a seldom-visited area north of Gannett Peak. Our route follows an extensive glacier system that straddles the Divide at elevations between 12,000 and 13,000 feet. Participants should be in very good condition and experienced in off-trail mountain and glacier travel. (Rated S) Leader: David Derrick. Price: \$575; Dep: \$100. [95180]



MIKE A. HENRY

Cresting the Range of Light, East to West, Kings Canyon Park, Sierra—August 10–19.

Our 53-mile, east-to-west Sierra crossing follows the Middle Fork of the Kings River, a spectacular chasm cutting through the heart of the High Sierra. From the Sierra Crest to Yosemite-like Tehipite Valley, we cover an incomparable range of scenery while following one of the finest trout streams anywhere. Expect great food, a packer assist, and three layover days. See also companion trip #95182. (Rated M) *Leader: Tom Hilton-Gray. Price: \$465; Dep: \$50. [95181]*

Cresting the Range of Light, West to East, Kings Canyon Park, Sierra—August 10–19.

We'll cross the Sierra from west to east along the Middle Fork of the Kings River. From Yosemite-like Tehipite Valley and the Devil's Washbowl to Dusy Basin and its chain of lakes, the awe-

some display of water and granite will delight us on our 53-mile hike. Three layover days, great food, and a packer assist included. Well-prepared beginners and veterans are welcome. See also companion trip #95181. (Rated L–M) *Leader: Kate Froman. Price: \$465; Dep: \$50. [95182]*

In Search of the Sky Pilot, Golden Trout Wilderness and Sequoia Park, Sierra—August 11–19.

We return to the high Sierra crest and continue our quest for that venerable wildflower, the sky pilot, found only above 12,000 feet. We'll explore the subtle beauty of Flocky Basin Lakes and the majestic spires of Miter Basin as we work our way north to our final goal, the top of Mt. Whitney. Donna Small will indulge us again with her fabulous alpine cuisine. (Rated M) *Leader: Paul McKown. Price: \$410; Dep: \$50. [95183]*

Seven Gables Lakes, John Muir Wilderness, Sierra—August 11–19.

We'll hike through stunning, remote, high country with many stark lakes and dramatic vistas on a loop around Seven Gables. We will visit Seven Gables Lakes, Bear Paw Lake, and many more, and enjoy vigorous cross-country

hiking days, layovers for exploring or relaxing, and a packer assist. Come prepared for excellent food, photo opportunities, and camaraderie. (Rated M) *Leader: Fred Schlachter. Price: \$435; Dep: \$50. [95184]*

Bench Valley, Blackcap Mountain Tour, John Muir Wilderness, Sierra—August 12–19.

We'll see two distinct faces of the Sierra on our adventure through the John Muir Wilderness. The first is gentle forest and broad glacial valleys with meadow-fringed lakes, the other rugged and dramatic with jagged peaks and unlimited views. Gourmet food, two layover days, and a pack drop midway make this trip a real joy. (Rated M) *Leader: Sy Gelman. Price: \$425; Dep: \$50. [95185]*

The White Cloud Peaks, Sawtooth Recreation Area, Idaho—August 12–19.

Hidden from the Sawtooth Valley, the craggy ramparts of the White Cloud Peaks stand in stark contrast to the surrounding foothills. Higher than the nearby Sawtooth Range, the peaks overlook more than 100 mountain lakes, many nestled in spectacular cirques. Our eight-day trip will visit a number of these lakes and provide ample opportunity for peak-bagging, fishing, or just enjoying the rug-

P A C I F I C N O R T H W E S T



Salmon played a vital role in establishing the rich flora and fauna of the Pacific Northwest forests, but today the destruction of those forests is threatening the viability of this incredible fish. Salmon decline has also caused a crisis in the logging and fishing industries,

and fundamentally altered the region's character. The main culprits are sprawling cities, hydroelectric dams, and rapacious logging that has felled 90 per cent of the original coastal forests.

The Sierra Club hopes to ensure the future of the Northwest's remaining wildlands by placing them in the National Wilderness Preservation System. The Club is also working to establish a new form of permanent protection for all remaining ancient forests and for other undisturbed habitats.

The Club is calling for restoration and protection of watersheds and more natural river flows from dams to help the salmon. The Club also seeks "transition assistance" to help logging towns build healthy economies that are not based on cutting old-growth forests.

Explore the natural beauty of the Pacific Northwest on a variety of Sierra Club outings in Washington and Oregon. Consider especially the Northwest Activist Outing, trip #95105 described on page 57.

BACKPACK

ged scenery. (Rated M) *Leader: Lee Sayers. Price: \$545; Dep: \$100. [95186]*

Mono Recesses Peakbag Odyssey, John Muir Wilderness, Sierra—August 12–20.

Enjoy an adventurous trek up Mono Creek and into the Recesses, which are dominated by Mt. Abbot and Bear Creek Spire. We will be camping around 11,000 feet in the shadow of these monolithic giants and the company of high alpine lakes. Traveling over rugged, cross-country terrain, we'll explore a land made for experienced peak enthusiasts. (Rated M) *Leader: Terry Flood. Price: \$430; Dep: \$50. [95187]*

Great Western Divide Peaks and Lakes, Sequoia Park, Sierra—August 13–19.

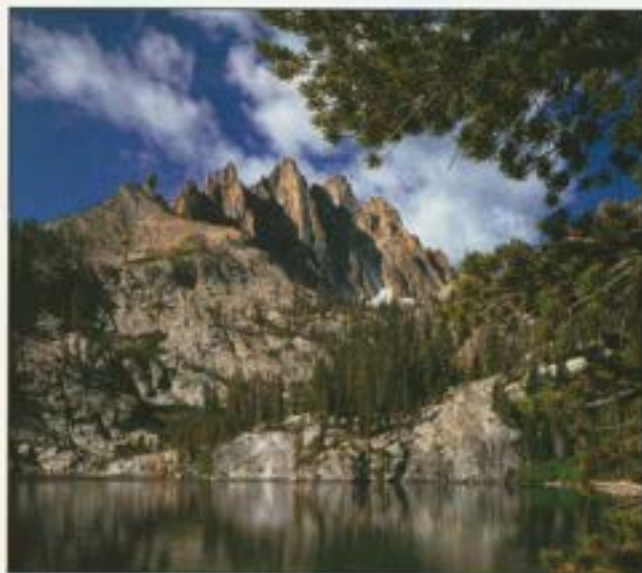
Wander among sky-piercing peaks and glacially carved lake basins in the most spectacular section of Sequoia National Park. We'll hike across the Triple Divide, along the Big Arroyo, among the famous Kaweah Peaks, and

In the Heart of the Siskiyou: Kalmiopsis Wilderness, Oregon—August 13–19.

The Siskiyou Mountains encompass one of the largest regions of ancient forest left in the Northwest. Our pleasure will be exploring the lush beauty and incredible biodiversity within the Kalmiopsis Wilderness. We will also create a forum for current and aspiring activists to exchange ideas on political action. The leader is a former backcountry forest ranger, now an Outward Bound instructor. Vegetarian cuisine provided. *Leader: Jeff Michien. Price: \$460; Dep: \$50. [95189]*

Wind River Range, Bridger Wilderness, Wyoming—August 13–19.

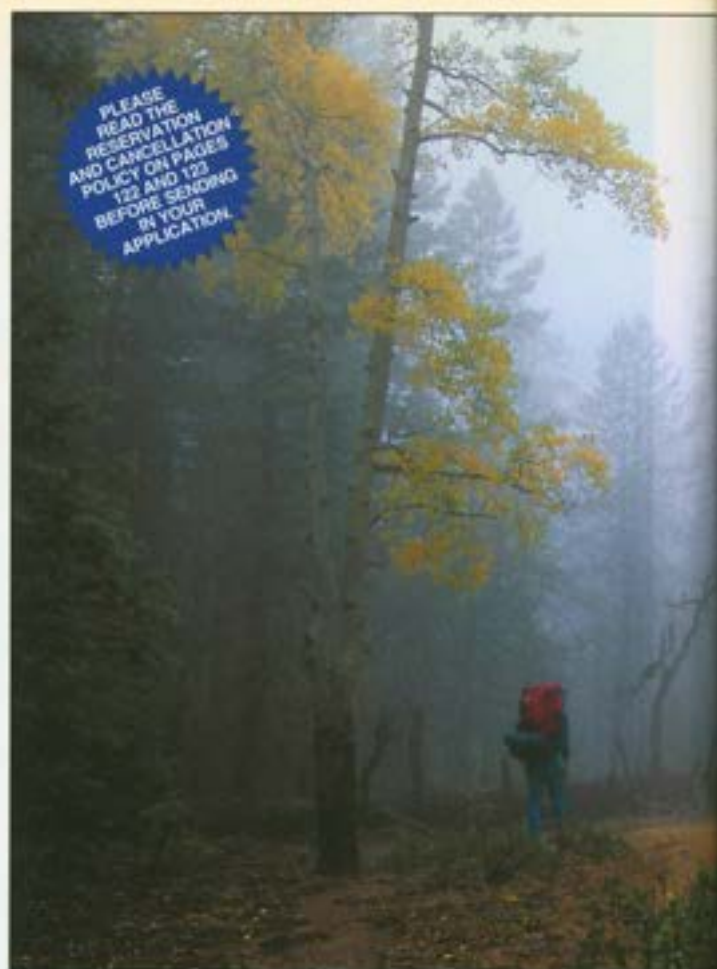
Starting at Green River Lakes, we will explore an alpine wonderland straddling the Continental Divide. Our route will take us to remote and beautiful glacial lakes, many stocked with trout. Our two layover days will provide us with time for climbs of nearby mountains, dayhikes to glaciers, or fishing and relaxing. With luck, we may encounter bighorn sheep or mountain goats. (Rated M) *Leader: Ted Doll. Price: \$520; Dep: \$100. [95190]*



admire the alpine beauty of Nine Lakes Basin. We'll also allow time for swimming, exploring, relaxing, and peak-bagging. A seven-day, 36-mile loop; some cross-country. (Rated M) *Leader: Roxann Hanning. Price: \$360; Dep: \$50. [95188]*

Stubblefield Canyon, Yosemite Park, Sierra—August 16–21.

Backpackers with previous off-trail experience should consider this short, six-day trip, especially if they're interested in something more adventurous! Our mostly off-trail route will take us through



a section of Yosemite's seldom visited northern region. One layover day will be in remote Thompson Canyon. Space is limited—sign up now! (Rated S) *Leader: Joe Uzarski. Price: \$330; Dep: \$50. [95191]*

High Indian Lakes, John Muir Wilderness, Sierra—August 16–23.

Dominated by 13,000-foot Seven Gables, our trip traverses some of the most remote High Sierra country. Our 41-mile loop (over half of it alpine cross-country) passes through a series of lake-studded glacial basins surrounded by towering peaks. A layover day gives time to visit incomparable Bear Lakes Basin, climb Gemini, or relax. Elevations between 10,000 and 11,000 feet. (Rated M) *Leader: Bill Engs. Price: \$370; Dep: \$50. [95192]*

Waterfalls and Wildflowers of the Continental Divide, Weminuche Wilderness, Colorado—

August 19–25. On this 45-mile, naturalist-led journey, we'll follow

enchancing Turkey Creek up past numerous waterfalls to the flower-carpeted tundra of the Continental Divide at 12,000 feet. There we'll enjoy the finest views and most fascinating geology in the Rockies. Daily hiking distances aren't long, but high elevations demand good physical conditioning. One layover day planned. (Rated M) *Leader: Suzanne Swedo. Price: \$490; Dep: \$50. [95193]*

Leadership Training, Rocky Mountain Park, Colorado—

August 20–26. The southern part of this glorious park will serve as our outdoor classroom. We'll traverse the Continental Divide, visiting forest and alpine ecosystems, and enjoying wilderness solitude. Instruction and hands-on lab experience will broaden your outdoor leadership skills. Individuals interested in leadership opportunities in the National Outing Program are encouraged to apply. Trip brochure contains qualification criteria and trip-fee reimburse-



ment policy. (Rated M) Leaders: Marie Cecchini and Roger Grisette. Price: \$365; Dep: \$50. [95194]

A Walk on the Appalachian Trail, Saddleback Range, Maine—August 20–26.

Experience Maine's finest hiking and most outstanding views! In the secluded backcountry of western Maine, we'll enjoy a unique combination of lakes, streams, and above-treeline hiking. Our first hiking days are easy and include a stop at the best little sandy beach at Long Pond. Once in the Saddleback Range, several days of 2,500-foot-plus elevation change make this trip suitable for experienced backpackers only. (Rated M-S) Leaders: Stew Meyers and Roy Silverfarb. Price: \$420; Dep: \$50. [95195]

Ansel Adams Wilderness Sierra Sampler—August 21–26.

Enjoy this beautiful wilderness just southeast of Yosemite, at a fairly leisurely pace. We'll have

five nights at elevations between 7,000 and 9,400 feet. There will be time in the afternoons to laze or hike to nearby peaks and lakes. The total distance of our loop will be about 20 miles. Well-conditioned beginners and seniors welcome. (Rated L) Leader: Roz Bray. Price: \$250; Dep: \$50. [95196]

Hemlock Crossing, Ansel Adams Wilderness, Sierra—August 26–September 3. Magnificent views of the Ritter Range, strikingly beautiful canyons, picturesque meadows, and solitude await you on this 40-mile trek east and south of Yosemite's border. We start and end this adventure on-trail, but in between our route is entirely cross-country. On layovers and short hiking days, there will be peaks to climb, lakes to swim, or

just plain relaxation. (Rated M) Leader: Skip Maynard. Price: \$345; Dep: \$50. [95197]

Matterhorn Canyon, Yosemite Park, Sierra—August 27–September 2. This trip is for people with prior backpacking experience looking for something with a bit more challenge. Our 50-mile route will be almost entirely on-trail through Yosemite's beautiful northern wilderness. Your backpack might feel a few pounds lighter because this trip last only seven days. Two layover days. (Rated M-S) Leader: Joe Uzarski. Price: \$300; Dep: \$50. [95198]

Upper Kern Basin, Sequoia and Kings Canyon Parks, Sierra—August 27–September 4. Near the headwaters of the Kern River, alpine basins are

nested high beneath rugged peaks of the Kings-Kern and Great Western Divide. We hike some of the Sierra's most spectacular country to reach this remote region, cross 13,200-foot Forester Pass, and depart from established trails to enter isolated Milestone Basin. We camp near 11,000 feet and plan two layover days. For experienced backpackers. (Rated M) Leader: Bill Flower. Price: \$405; Dep: \$50. [95199]

Mountain Goat Byways, North Cascades, Washington—September 4–10. A huckleberry and mountain goat fan's delight, our trail high in the Goat Rocks Wilderness includes marvelous vistas of Cascade peaks. Travel along the loftiest portion (7,000 feet) of the Pacific Crest Trail in Washington and explore berry-red meadows, glacier-fed lakes, and side trails still covered with ash from Mount St. Helens. (Rated M) Leader: Nadine Sanders. Price: \$405; Dep: \$50. [95200]

BACKPACK



Top to bottom: Emigrant Wilderness, Sierra; Saguaro Monument, Arizona; Desolation Wilderness, Sierra.

Redwoods to the Sea, Mendocino Coast, California—September 10–17. We'll spend five days backpacking the coast—

a magnificent stretch of ancient redwood groves, high bluffs with ocean views, and sandy beaches. Then, three days at a base camp offer walking along the beautiful Mendocino Headlands, strolling into a lush redwood and fern canyon, and hiking through the geologically fascinating marine terraces and pygmy forests. Dinner one night in Mendocino (not included in trip fee). (Rated M) Leader: Marleen Fouché. Price: \$370; Dep: \$50 [95202]



CARL S. CHAMBERLIN

Hells Canyon Wilderness, Snake River, Idaho—September 8–15. The Seven Devils Mountains in the Hells Canyon Wilderness offer magnificent views of the deepest gorge in North America. The peaks ascend to 10,000 feet, and there are numerous lakes with good trout-fishing. Our trip will include layover days for exploration as well as a horse pack delivery at the halfway point. We will conclude our adventure by descending 7,000 feet to the Snake River for a one-day float out. (Rated M) Leader: Wayne Chamberlin. Price: \$530; Dep: \$100. [95201]



BOB WITKINS/GETTY

Olympic Park's Northeast Corner, Washington—September 10–16. With four passes, sub-alpine lakes and meadows, blueberries, and fabulous views of the Strait of Juan de Fuca and Vancouver Island on our itinerary, our trip to the dry, rugged, and less visited side of Olympic Park is a celebration! We may see mountain goats, bears, Roosevelt elk, and wildflowers. We will discuss natural and human history, geology, flora and fauna, and conservation issues. (Rated M-S) Leader: Craig F. Miller. Price: \$365; Dep: \$50 [95203]

Fall Color, Lake Superior Pictured Rocks, Michigan's Upper Peninsula—September 17–23. Enjoy hiking days of five

to six miles over relatively flat terrain in one of the Midwest's premier outdoor settings. Mild temperatures and the absence of insects add to the water-wonderland appeal of Michigan's Upper Peninsula at this time of year. Fall colors, the Pictured Rocks cliffs, soft and hardwood forests, Twelve-Mile Beach, and an abandoned lighthouse enhance our hiking itinerary. (Rated L-M) **Leader:** Susan LaVigne. **Price:** \$360; **Dep:** \$50. [95204]

Autumn in Yosemite, Sierra—September 17–24. We follow a classic trail route through Yosemite National Park, selected for the likelihood of enjoying the park's spectacular fall colors. We start and end in Yosemite Valley and visit Vernal, Nevada, and Tuolumne falls, Tenaya and Cathedral lakes, and have a lay-over day in Tuolumne Meadows. (Rated L-M) **Leader:** Don Lackowski. **Price:** \$440; **Dep:** \$50. [95205]

Black Forest Trail, Tiadaghton Forest, Pennsylvania—September 24–30. Join our 42-mile loop through a densely forested area of northeastern Pennsylvania. Numerous streams dissect the Appalachian Plateau, creating a maze of deep ravines contrasting with high, open ridges. We'll average six miles a day with ample opportunity to explore, photograph, interpret natural history, or just relax. If you have not backpacked before, this is a wonderful introduction! We'll finish in fine style with an optional visit to a 1,000-foot-deep gorge. (Rated L) **Leader:** Jeff Knopp. **Price:** \$350; **Dep:** \$50. [95206]

Big Island Coast, Hawaii—October 3–14. See page 94 for details. (Rated M) **Leader:** George Winsley. **Price:** \$965; **Dep:** \$100. [95266]

Canyons, Caves, and Cabins, Buffalo River, Arkansas—October 8–14. Geology, botany, history, and scenery come in generous portions along our 44-mile hike amid autumn colors. We'll travel upriver from the hills and hollows of the Springfield Plateau into the Ozarks' deepest canyon, where the Buffalo emerges from the Boston Mountains. Expect river views, pioneer relics, and other surprises.

(Rated M) **Leaders:** Joan and John Molenaar. **Price:** \$365; **Dep:** \$50. [95207]

History and the River, C & O Canal Historical Park, Maryland—October 8–14. Hike 76 level miles on Maryland's C & O Canal Historical Park towpath, following the Potomac River Valley from Cumberland to Fort Frederick, and traversing six aqueducts, 27 lift locks, and a 3,300-foot long tunnel. The easy trail provides miles of solitude, exposure to the area's rich history, and ever-changing vistas of the Potomac and autumn-hued Appalachians. (Rated L-M) **Leader:** Rod Barr. **Price:** \$350; **Dep:** \$50. [95208]

Going Back to Anasazi Country, Utah—October 15–22. Explore the natural and cultural wonders of southeast Utah's Fish, Road, and Owl canyons while camping in whispering cottonwood or juniper. Wildflowers, wind-carved Cedar Mesa sandstone, and marvelous Anasazi ruins are all there for our enjoyment. Hiking distances of less than six miles a day leaves time for exploring. Steep canyon entry and exit raise rating. (Rated L-M) **Leader:** Neil Stufflebeam. **Price:** \$480; **Dep:** \$50. [95209]

Mauna Loa Backpack, Hawaii—October 16–22. See page 94 for details. (Rated S) **Leader:** George Winsley. **Price:** \$710; **Dep:** \$50. [95267]

Haleakala Backpack, Hawaii—October 24–November 1. See page 95 for details. (Rated S) **Leader:** George Winsley. **Price:** \$955; **Dep:** \$50. [95268]

See also Activist, Alaska, Family, International, and Service for other Backpack trips.

The Sierra Club sponsors about 360 national outings and about 20,000 local outings each year. We aspire to maintain the highest standards of conduct, regulatory compliance and minimum impact travel in the wilderness. If you encounter a Sierra Club outing and would like to remark on your experience, please write the Sierra Club Outing Department at 730 Polk St., San Francisco, CA 94109. We appreciate hearing from members and continually strive to improve the quality of all our outings.

Sierra Club 1995 Summer Workshop For Educators

Teaching for an Environmentally Sustainable Future

Sunday, July 9–Saturday, July 15

Clair Tappaan Lodge in the Sierra at Norden, California

- Explore diverse habitats.
- Enjoy the Sierra ecosystem.
- Learn about current environmental issues and trends in environmental education.
- Explore strategies for educating about global change—an interdisciplinary and holistic approach.

Cost

Adults and Teens \$325 Children (7-12) \$230

Cost includes room, board, tuition, insurance, trips, and special materials and resources.

This workshop is designed for educational leaders, teachers, and their families.

For information, contact Michele Perrault, Workshop Director—(H) 510-283-6683, (W) 415-923-5670.

1995 SUMMER EDUCATORS WORKSHOP REGISTRATION FORM

Name _____

Address _____

City _____

State _____ Zip _____

Do you wish teaching credits? Yes No


Please send an informational brochure.

Deposit for registration (non-refundable): \$50.
\$10 late fee after May 15.

To register or receive additional information, send to:
SIERRA CLUB EDUCATORS WORKSHOP
c/o VOLUNTEER DEVELOPMENT OFFICE
Sierra Club, 730 Polk St., San Francisco, CA 94109

or call Michele Perrault, Workshop Director
(H) 510-283-6683 or (W) 415-923-5670.

BASE CAMP



Enjoy the wilderness without the exertion of backpacking! On some base camp trips, pack animals carry most of your gear, food, and equipment to a backcountry camp, then return to civilization for a week while you enjoy the peace and serenity of the wilderness. On other trips, lodges, cabins, or other accommodations serve as headquarters from which daily explorations can be made. As a base camp participant, you hike with just a daypack.

You assist with meal preparation but are otherwise free to dayhike, bag peaks, relax, or, on some trips, join the leader on an optional overnight backpack.

Base camp trips are ideal for families with children 12 or older, and for anyone who wants time to explore the riches of nature at a leisurely pace.

comprised of a mad variety of habitats—fossilized seabed, juniper scrub, badlands, and sandstone washes. We'll be accompanied by a naturalist and a conservation activist. Car-camping in one or two sites, we will carpool to trailheads for moderate daily walks. Bring your swimsuit, camera, and field glasses. *Leader: Carol Baker. Price: \$455; Dep: \$50. [95050]*

California Desert Celebration, Mojave National Preserve, California—April 8–14.

Come to the desert this spring and toast the Sierra Club's victory in getting the California Desert Protection Act passed in Congress! We'll explore the panoramas, sand dunes, and cinder cones of the new Mojave National Preserve. From our 5,600-foot camp we'll carpool daily to the trailheads. Hikes vary from easy to moderately strenuous; the toughest day is six miles with a 1,000-foot gain. Our pace is modest as we stop for flowers, wildlife, and talks on history, archaeology, and conservation. *Leader: Rose Cerini. Price: \$325; Dep: \$50. [95051]*

Spring and River Country, North Central Florida—April 16–22. The north-central part of

the Florida peninsula offers a range of uncrowded natural areas. Large, clear springs rise from the ground and empty into gentle, flowing rivers lined with live oaks, cypress, pines, and hardwoods. The area is also home to lakes, sinkholes, and grassy prairies. From our campground at O'Leno State Park, we'll explore this area on day-hikes and by canoe. Canoe rental not included in trip fee. *Leader: Steve Rodney. Price: \$410; Dep: \$50. [95052]*

Havasupai Indian Reservation, Grand Canyon, Arizona—April 23–29. Come visit this remote



Coral Reefs, Turtles, and Parrot Fish: St. John, U.S. Virgin Islands—January 22–28.

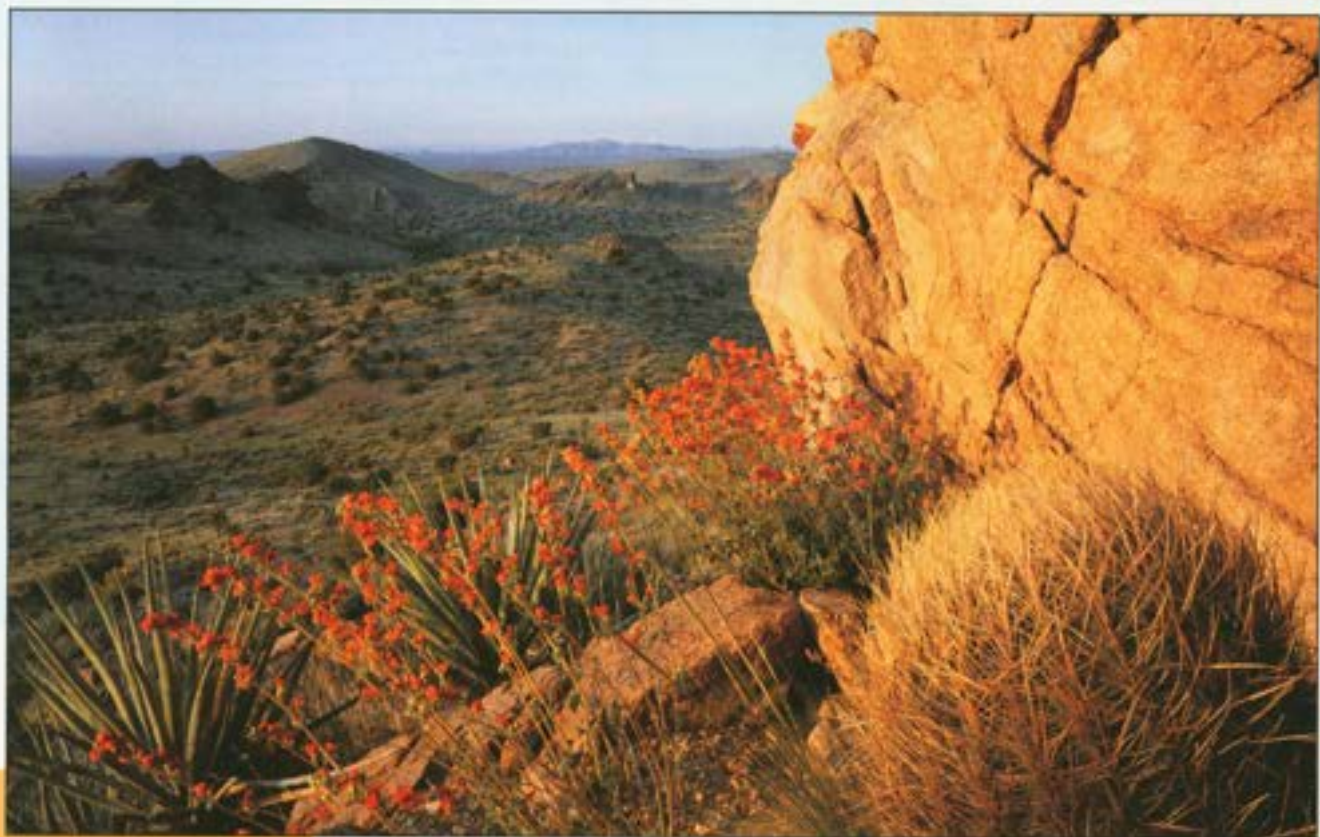
Leave cold January behind to snorkel, sun, and hike in the warmth of St. John! The Caribbean is 50 feet from our cottages at Cinnamon Bay, while the forest stretches out behind us. Mornings we'll explore forests and historic ruins; afternoons we will swim and snorkel

over spectacular reefs, watching fish and looking for rare turtles. Snorkeling instruction available. Transport by safari vehicles. Meals not included in trip price. *Leader: Gary Skomra. Price: \$705; Dep: \$100. [95424]*

Anza Borrego Park, California—March 4–11. Anza Borrego is California's largest state park, an exotic desert corner



GIVE THE GIFT OF WILDERNESS WITH A SIERRA CLUB OUTINGS GIFT CERTIFICATE. SEE PAGE 105.



Top, Badlands National Park, South Dakota; left to right: Yosemite Park, Sierra; John Muir Wilderness, Sierra; Mt. Hood, Oregon; Mojave Preserve, California.

and beautiful reservation on the western end of the Grand Canyon, renowned for the beauty of its riparian vegetation and large, travertine pools. Horses will carry our equipment and food, and we'll also ride horses to our base camp, located between the grand Havasu and Mooney waterfalls. We will spend our days swimming in pools below the falls and hiking to scenic areas. *Leader: John Malarkey. Price: \$795; Dep: \$100. [95053]*

Naturalist's Puerto Rico—April 24–30. Explore the unspoiled island of Culebra, snorkeling and swimming pristine beaches and assisting with Fish and Wildlife Service surveys of nesting sea turtles. Hike the trails of El Yunque, the Forest Service's only tropical rainforest, a land of giant ferns, waterfalls, and exotic vegetation. Accommodations include a villa in Culebra and a historic hotel. Meals not included in trip price. *Leader: Marjorie Richman. Price: \$765; Dep: \$100. [95054]*

Sky Island Treasures, Chiricahua Mountains, Arizona—May 7–13. Bring binoculars and enjoy three days of superb bird-watching and dayhiking from our 5,600-foot drive-in base

camp at Cave Creek Canyon, a renowned birding hotspot. Then we car-shuttle over the mountains to our new base camp with two layover days for exploring, dayhiking, and birding in Chiricahua National Monument at elevations from 5,500 to 7,000 feet. *Leader: Ed Marty. Price: \$495; Dep: \$50. [95043]*

Daughter of the Stars, Shenandoah Park, Virginia—May 14–20. Witness nature's rejuvenation in the fabled Shenandoah this spring! Wildflowers and gentle deer peek through the woods on our hikes, restoring spirits on misty mornings, while spring-replenished brooks cascade beside us on warm afternoons. Evenings will find us gathered around the

campfire, discussing Shenandoah's history and our impact on the land the Indians called "Daughter of the Stars." *Leaders: Lissa and Ted Jackson. Price: \$415; Dep: \$50. [95055]*

Pinnacles and Prairie, Badlands Park, South Dakota—May 21–26. Coyotes serenade at night, a symphony of birds heralds the dawn, and buffalo may wander casually through our grasslands campground. In contrast are the starkly eroded peaks and spires where wind, water, and the chisel of time have made the mako sica (bad land). A haunting, peaceful land with outstanding sunsets, storms, and rainbows. *Leader: John Molenaar. Price: \$455; Dep: \$50. [95056]*

BASE CAMP

Early Summer in the Great Smoky Mountains, Tennessee—June 4–10. Cool mountain trails and high meadows, beautiful wildflowers, big trees, fast streams...a comfortable campground in historic Cades Cove...flexible dayhike options each day...horses and bicycles available from park staff...deer, black bears, otters, foxes, raccoons, skunks, and squirrels...beautiful waterfalls, peaks, balds, and the Appalachian Trail...great food and fine company! *Leader: Dave Weaver. Price: \$380; Dep: \$50. [95210]*

Four Seasons in Six Days, White River Forest, Colorado—June 4–10. Take on an assortment of fun challenges with dayhikes, overnight backpacking, and fly-fishing. Situated at the base of the flat-top peaks, Trappers Lake (9,200 feet) offers unspoiled natural beauty. This base camp experience promises to be high-energy and full of variety, both in activities and climate. Trip fee includes fly-fishing instruction. *Leader: Ed Davenport. Price: \$405; Dep: \$50. [95211]*

Leadership Training, Cataloochee, Great Smoky Mountains Park, North Carolina—June 11–17. The Smoky Mountains' beautiful and remote Cataloochee Valley is to be the backdrop for an outing designed to train new leaders for the National Outing Program. Instruction will combine with on-trail practice, possibly simulated emergencies, and role-playing. Fun activities will not be in short supply! See the trip brochure for qualification criteria and trip fee reimbursement policy. *Leaders: Helene Baumann and Marjorie Richman. Price: \$395; Dep: \$50. [95212]*

Bryce Canyon and More, Central Utah—June 17–24. Let's explore the south-central mountains of Utah, the Dixie Forest, and the Pink Cliffs of Bryce Canyon. From our 8,200-foot base camp at Pine Lake, we will drive or walk daily to trailheads for moderate hikes. We'll visit



Bryce several times and look across at it from Powell Point. Anyone in good physical condition can enjoy this adventure; beginners and seniors welcome. Anticipate temperate weather. *Leader: Emily Strauss. Price: \$520; Dep: \$100. [95213]*

Emigrant Wilderness Exploration, Sierra—July 8–15. This lovely section of the Sierra, just north of Yosemite, is usually seen only by backpackers. But thanks to horses which carry our gear, we'll have freedom to roam from our lake-side camp or just relax, fish, and swim. Expect moderately strenuous hiking and plenty of good food as we explore this land of inviting lakes and granite peaks. *Leader: Nancy Felling. Price: \$695; Dep: \$100. [95214]*

Midnight Lake Base Camp, John Muir Wilderness, Sierra—July 8–15. What a dilemma—our camp near Midnight Lake, just below treeline, is only a short hike to alpine scenery,

opportunities for swimming, fishing, photography, peak-bagging, exploring, or relaxing abound. And with more than 18 lakes around us, numerous leisurely-to-strenuous dayhikes are available. What to choose? Leave your troubles behind and do it all! *Leader: Sy Gelman. Price: \$590; Dep: \$100. [95215]*

High Sierra Lakes, Ansel Adams Wilderness, Sierra—July 15–22. Hike, fish, swim, or just relax high in the picturesque Sierra Nevada just across the Yosemite border. Hikeable peaks nearby and the many glacier-carved lakes combine to make this unique wilderness a vacationer's delight. Your leader will provide daily hiking opportunities including exploring with map and compass, both on- and off-trail. *Leader: Dave Johnson. Price: \$510; Dep: \$100. [95216]*

Michigan's Sleeping Bear and South Manitou, Lake Michigan—July 30–August 5. Our

first base camp on Sleeping Bear Dunes Lakeshore provides scenic dayhiking and magnificent Lake Michigan vistas. Then we travel by ferry to our second base camp on abandoned South Manitou Island, where we'll explore relics from a once thriving rural community. Dune life, an 1871 lighthouse, and secluded beaches inspire the photographer in us all. Vigorous dayhikes are balanced with time to relax. Beginners welcome. *Leaders: John and Joan Molenaar. Price: \$345; Dep: \$50. [95217]*

Canada's Alps, Mt. Assiniboine Park, British Columbia—August 27–September 1. Mountain scenery, untamed wilderness, and glacial lakes abound in this region of the Canadian Rockies much admired by outdoor enthusiasts and photographers. Our rustic lodge, accessible only by a 17-mile hike or optional helicopter ride with the leader, is situated in a flower-filled, high alpine mead-



Left to right: Sleeping Bear Dunes Lakeshore, Michigan; Quinalt River, Washington; Great Smoky Mountains, Tennessee.

Stehakin Valley, North Cascades, Washington—September 10–16.

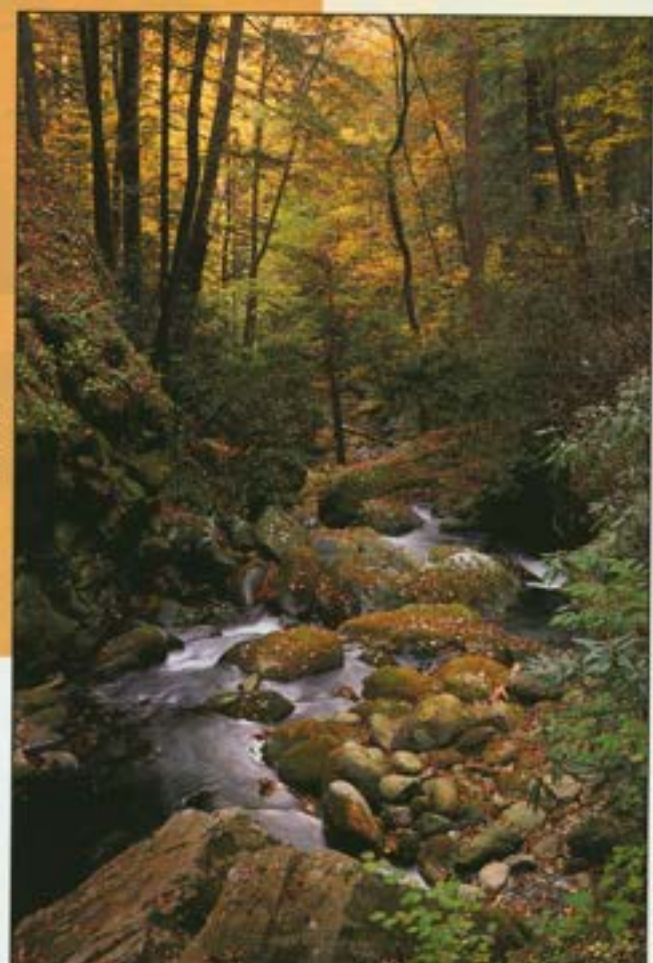
See alpine peaks, glaciers, whitewater rivers, and waterfalls in the magnificent wilderness of the North Cascades. Intermediate hikers will enjoy the wide variety of day-hikes and delicious, home-cooked meals served at our ranch, accessed by boat across fjord-like Lake Chelan. Music-lovers are encouraged to bring guitars, banjos, and harmonicas for evening revelry. *Leader: Julie Laws. Price: \$850; Dep: \$100. [95220]*

Exploring Glacier Peak Wilderness, Washington—September 10–17.

Take time to explore alpine meadows and lakes above a remote village bordering Glacier Peak Wilderness and accessible only by foot or boat. We will spend our days hiking and then return each night to a sauna and Jacuzzi, delicious homemade food, and comfy beds. Highlights include panoramic views, wild berries, and migrating hawks. *Leader: Aik Foster. Price: \$840; Dep: \$100. [95221]*

Great Smoky Mountains Park, Tennessee and North Carolina—September 24–30.

Using two base camps, we will explore the less crowded northern areas of the park. This early autumn outing is designed for experienced hikers who are comfort-



able with daily hikes of 11 to 14 miles with substantial elevation changes. Come view the approach of fall as the leaves change among some of the highest peaks in the East. *Leader: Ray Abercrombie. Price: \$420; Dep: \$50. [95222]*

Trails of Canyon de Chelly, Arizona—October 8–14.

Join our exploration of the historic, archaeological, and cultural treasures of Canyon de Chelly, a national monument since 1931. Our Navajo guides and hosts provide interpretive walks to many rock art panels and ruins. We will share in modern Navajo traditions, including a weaving demonstration and the making of fry bread at a Navajo taco feast. *Leader: Bob Hartman. Price: \$590; Dep: \$100. [95223]*

Eastern Canyons of Tennessee—October 15–21.

Witness waterfalls and streams disappearing into caves cut into deep canyons. Walk through an area still wild enough to merit its

name—Savage Gulf. Wonder at the rugged beauty of a gorge reached through the Great Stone Door, a cliff-edge crevice. Come explore a little known area which contains some of the eastern U.S.'s widest country. *Leader: Lee Thomas. Price: \$410; Dep: \$50. [95224]*

St. John Sampler, Virgin Islands Park—December 5–11.

White sand, turquoise oceans, sea breezes, parrot fish, bare feet, crimson sunsets, pearly-eyed thrashers, morning hikes, plantations, mahi-mahi, palm trees, hermit crabs, coral reefs—join us as we sample all the flavors of spectacular St. John. Our accommodations are cottages at Cinnamon Bay Campground. Meals are not included in trip price. *Leader: Kendal Tipper. Price: \$675; Dep: \$100. [95225]*

See also Activist, Alaska, Clair Tappaan Lodge, Bicycle, Family, Hawaii, International, Service, and Ski for other Base Camp trips.

ow surrounded by majestic peaks and glaciers. Appropriate for hikers of all levels, this trip will emphasize photography, natural history, and relaxation. *Leader: Carolyn Castelman. Price: \$1,120; Dep: \$200. [95218]*

Northern Oregon Coast Adventure for Gays, Lesbians, and Friends—September 10–15.

From the mighty Columbia River south to Neakahnie Mountain, we'll explore beaches and forests on hikes that showcase the Oregon coast's rugged beauty. We'll visit Ft. Clatsop, where the Lewis and Clark expedition spent the winter, and enjoy the charms of Cannon Beach on our layover day. Using a hostel as home base, we'll sample Northwest cuisine by dining each night in local restaurants (dinners not include in trip price). This first-ever national outing for gays and lesbians is open to all Club members regardless of sexual orientation. *Leaders: Steve Griffiths and Jean Jackson. Price: \$515; Dep: \$100. [95219]*

CLAIR TAPPAAN



DO YOU LONG TO EXPERIENCE THE SIERRA, but prefer not to sleep in a tent? Are you eager to escape civilization, but still want all the amenities? Does being able to choose between leisurely and more demanding activities appeal to you? Then an outing to rustic Clair Tappaan Lodge may be just the thing.

Located on a pine-covered hillside in Tahoe National Forest, the Lodge provides the perfect base from which to explore and enjoy the natural beauty of historic Donner Pass. Built by Sierra Club members in 1934, Clair Tappaan has retained its cozy ski lodge atmosphere, complete with a big stone fireplace, wholesome and hearty meals, and friendly staff.

Our Lodge trips offer a variety of ways to enjoy this scenic area, including hiking through wooded forests, surveying the backcountry by cross-country skis, or capturing the landscape with paint brush, camera, or notebook. Of course, none of the above rules out taking a nap on the deck, or lounging in the Lodge's own hot tub. Whatever your interests or ability, check out the listings below and start making plans for a relaxing week at Clair Tappaan.



High Sierra Skiing I—January 29–February 3. See page 117 for details. *Leader: Herb Holden. Price: \$420; Dep: \$50. [95428]*

High Sierra Skiing II—February 26–March 3. See page 117 for details. *Leader: Herb Holden. Price: \$420; Dep: \$50. [95431]*

Spring Cross-Country Skiing in the Sierra—April 16–21. See page 117 for details. *Leader: Herb Holden. Price: \$420; Dep: \$50. [95433]*

Art, Hiking, and High Living—June 11–17. Be good to yourself—come along on our sixth

Sierra Strolls—July 16–22. Sample the Sierra on our short, leisurely walks along easy trails. We'll stroll by mountain lakes, creeks, beaver dams, and meadows of wildflowers. We'll visit the Donner Party winter sites, the top of Squaw Peak (by tram), and beautiful Lake Tahoe. This trip is suitable for people with limited mobility who are able to climb stairs. *Leader: Kay Homsey. Price: \$550; Dep: \$100. [95228]*

Hiking to Paradise—July 23–29. Join us on five history-oriented hikes of 4 to 12 miles to Paradise Lake, Tinker Knob, and

Counterclockwise from above: aspen and pine; ferns; Clair Tappaan Lodge, Tahoe National Forest, Sierra; foxtail pine; Desolation Wilderness, Sierra.

annual all-purpose, multiple-choice outing. Choose between leisurely hikes along the Pacific Crest Trail, landscape art sessions with help from our instructor, or your own exploration of the outdoors. Add in good food, great vibes, and indoor plumbing, and you've got yourself one picture-perfect outing. *Leaders: Helen and Jim Maas. Price: \$460; Dep: \$50. [95226]*

High Sierra Serenity: Six Hikes and 12 Steps—June 18–24. Enjoy the natural high of early Sierra summer as we hike, fish, paint, explore, and appreciate the scenic and historic Donner Pass area. Our rustic hideaway is perfect for fellowship and serenity. Provisions for optional 12-Step Program meetings will be a special addition to this unique outing. *Leaders: Barbara and Tim Pook. Price: \$386; Dep: \$50. [95227]*



parts of the Pacific Crest Trail in the Donner Pass area. In the evenings we will gather for lectures, discussions, and videos that will further acquaint us with the area and its history. The trip is ideal for those who enjoy day-hikes but prefer to sleep in beds and have hot showers at the end of the day. *Leader: Rick Ramos. Price: \$390; Dep: \$50. [95229]*

Mountain Medley—July 30–August 5. Explore the Donner area from many vantage points on this unique sampler.



Ramble through woods and flowering meadows to granite vistas. One day each is spent with an expert—photographer, birder, historian, and naturalist. Evening programs include music and campfires, slides, folk dancing, and learning massage techniques. Can we squeeze it all in? Optional daily hikes and a free day included. *Leader: Mary Jane McKown. Price: \$455. Dep: \$50. [95230]*

Family Service Trip—August 6–12. See page 93 for details.

Leader: TBA. Price: adult \$195; child \$130; Dep: \$50. [95259]

History and Hiking—August 13–19. The Lodge is in walking distance of many historic sites. Donner Pass of Donner Party fame, the transcontinental railroad, and emigrant trails provide a fascinating glimpse of history where it happened. Each day there will be a short but interesting three- to eight-mile hike with a naturalist who'll help us identify plants and rocks. Suitable for anyone in good health who is

able to hike up fairly steep trails. *Leader: Ernie Jackson. Price: \$420; Dep: \$50. [95231]*

Just for Grandparents and Grandkids—August 27–September 1. See page 93 for details. *Leaders: Helen and Jim Maas. Price: adult \$315; child \$215; Dep: \$50. [95262]*

Nature Writing Workshop—September 10–15. Wallace Stegner called those who write about nature and the environment "witnesses." If you'd like to

hone your skills as one of nature's witnesses, and experience the Sierra during the quiet time when it prepares for winter, join us for our third annual nature writing workshop. Daily hikes in the Donner Pass area will provide fodder for writing and discussion. Beginners welcome. *Leader: Susan Heitman. Price: \$395; Dep: \$50. [95232]*

See also Base Camp, International, and the listing under "Lodge" on page 56 for other lodge-based trips.

BICYCLE

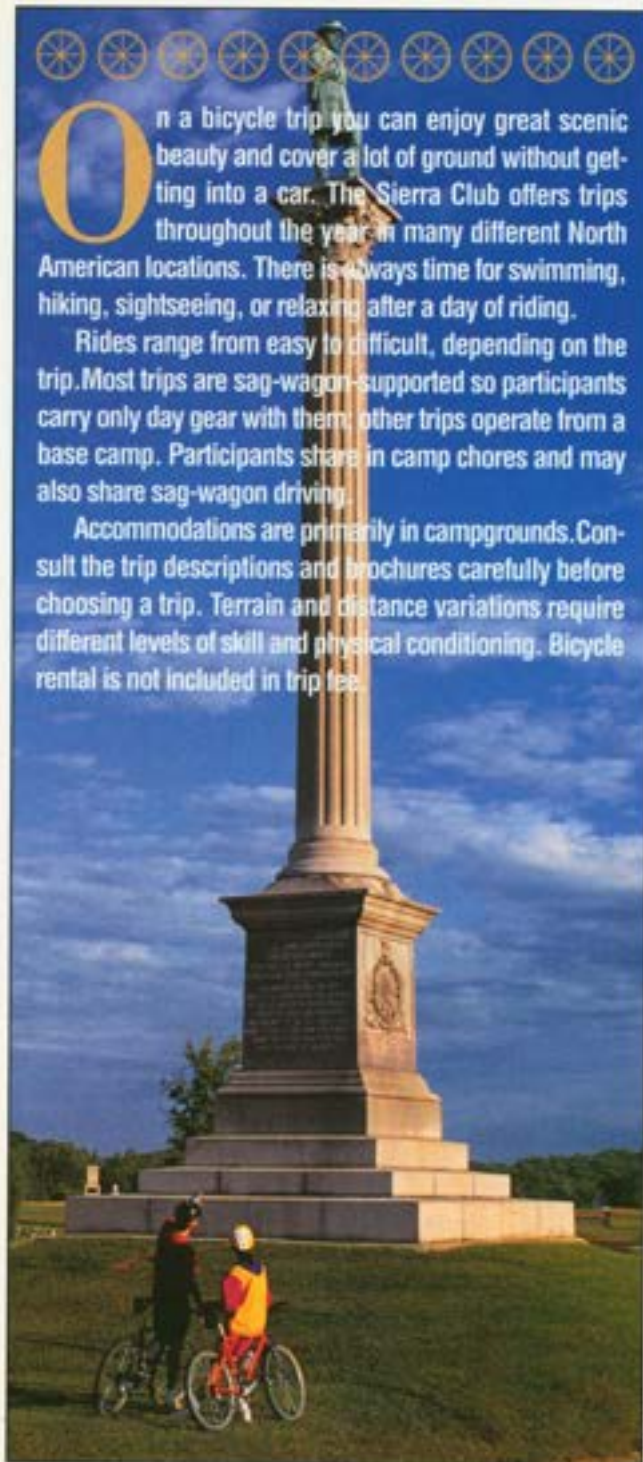
JERRY HAZEN/ALPINE VALLEY



On a bicycle trip you can enjoy great scenic beauty and cover a lot of ground without getting into a car. The Sierra Club offers trips throughout the year in many different North American locations. There is always time for swimming, hiking, sightseeing, or relaxing after a day of riding.

Rides range from easy to difficult, depending on the trip. Most trips are sag-wagon-supported so participants carry only day gear with them; other trips operate from a base camp. Participants share in camp chores and may also share sag-wagon driving.

Accommodations are primarily in campgrounds. Consult the trip descriptions and brochures carefully before choosing a trip. Terrain and distance variations require different levels of skill and physical conditioning. Bicycle rental is not included in trip fee.

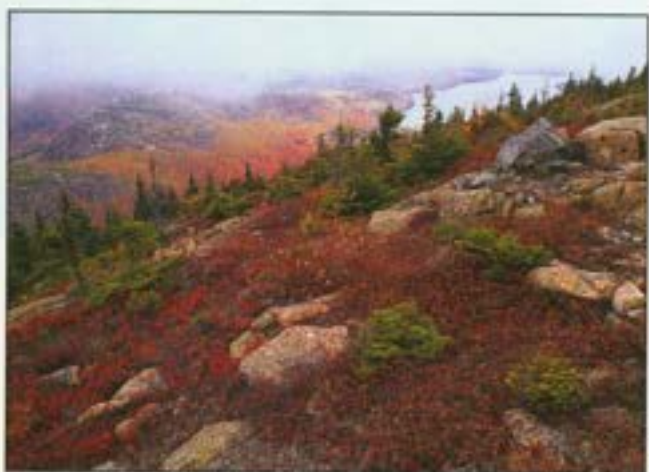


Biking through Civil War History, Virginia, Maryland, and Pennsylvania—May 14–20. Retrace the footsteps of General Lee's invasion of Union soil! Starting at Manassas, Virginia, we'll ride north through historic Harpers Ferry, Antietam, and along the gravel C & O Canal Towpath. Our route takes us through the Catoctin Mountains and concludes with a guided tour of Gettysburg. This van-supported camping trip takes in six national battlefields and parks, and is for mountain or road bikers with intermediate cycling ability. *Leader: Brian Vandegrift. Price: \$480; Dep: \$50. [95057]*

Virginia and North Carolina's Blue Ridge Parkway—May 21–27. We're back and ready for more! We had so much fun last year on the first leg of the world-famous parkway, this year we'll continue for another 200 sag-wagon-supported miles. Our itinerary includes camping, over-

The Wright Wisconsin Tour—June 17–24. Hidden valleys, limestone bluffs uncarved by glaciers, and quiet scenes along the Wisconsin River are the backdrop for our tour, which emphasizes Frank Lloyd Wright's work. We begin and end in Madison, where John Muir studied natural history, Aldo Leopold taught it, and Wright incorporated it into his architecture. Staying in campgrounds, our sag-wagon-supported trip will feature average daily mileages between 45 and 60 miles. *Leaders: Alice Honeywell and Tom Sizman. Price: \$400; Dep: \$50. [95233]*

Cycling Prince Edward Island and the Magdalens, Canada—June 23–July 1. Enjoy warm breezes, salt tang, gently rolling countryside, and a patchwork quilt of farmland, wood lots, and waterways. We'll cycle Prince Edward Island, then ferry to the Magdalen archipelago, where we'll bike on flat, untravelled



looks, wildlife, a winery, and a layover day. Will we see bears and get chased by wild turkeys again? There's only one way to find out! Newcomers welcome. *Leader: Ken Singletary. Price: \$470; Dep: \$50. [95058]*

roads. The Magdalens are characterized by red cliffs, long dunes, peat bogs, calm lagoons, and salt marshes. A support vehicle is provided for this camping trip. *Leader: Margaret O'Neil. Price: \$490; Dep: \$50. [95234]*



Bicycling the Big Island, North, Hawaii—July 1–8. See page 94 for details. *Leader: Jill McIntire.* Price: \$395; Dep: \$50. [95264]

Bicycling the Big Island, South, Hawaii—July 8–15. See page 94 for details. *Leader: Jill McIntire.* Price: \$395; Dep: \$50. [95265]

Mountain Biking the Alaska Wilderness—July 27–August 9. See page 60 for details. *Leader: Donna Foggi.* Price: \$1,295; Dep: \$200. [95120]

Mountain Biking New York's Adirondack Forest—July 30–August 4. New York state's Adirondack Park is larger than six other states, with unique wilderness containing mountains, rivers, lakes, rainforests, and pathways. Biking mostly on backwoods networks of jeep roads and snowmobile trails, we will be exploring premier mountain bike routes in several differ-

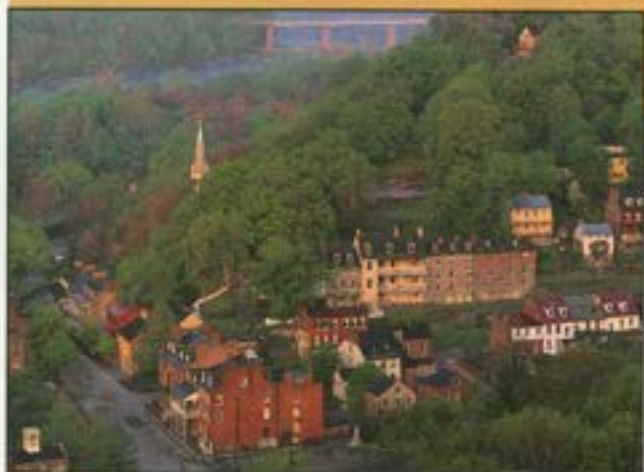
ent locations. Ride 15 to 20 miles a day—challenging but appropriate for all levels. Sag wagon, tenting, cabins, swimming, and photography. *Leader: John Borel.* Price: \$440; Dep: \$50. [95235]

Down East by Bicycle, Maine—August 27–September 3.

Maine's coastal scenery is unmatched in the U.S. Cycling this rocky coast from Acadia National Park on Mt. Desert Island to Eastport makes for an ideal bicycle tour. We'll visit Great Wass Island, Campobello, and observe the world's highest tides. Expect a lobster feed and other seafood delights on our menu. Lodging will be in campgrounds and state parks with hot showers. For strong beginners as well as advanced cyclists. *Leaders: Bob Anderson and Maggie Seeger.* Price: \$465; Dep: \$50. [95236]

Summer's End on the Eastern Shore, Maryland—September 17–24. Summer's over, the crowds are gone—what better

Clockwise from top: sweetgum and redgum leaves; Linn Cove Viaduct, Blue Ridge Parkway; Harpers Ferry, West Virginia; Gettysburg National Military Park, Pennsylvania.



time to explore Maryland's Eastern Shore? This historic, maritime region between Chesapeake Bay and the Atlantic shoreline offers picturesque waterfront towns, peaceful backroads and marshes teeming with waterfowl.

Our sag-wagon-supported tour will average 50 miles per day over gentle terrain. We will camp at scenic state parks and private campgrounds. *Leader: Frank J. Traficante.* Price: \$375; Dep: \$50. [95237]

BURRO



TAKE PART in one of the great traditions of High Sierra travel. Accompanied, assisted, and occasionally confounded by these gentle, strong, and friendly animals, you will enjoy the wilderness as you lead your burro from camp to camp and relax on layover days.

Novice and seasoned outdoorspeople of any age are welcome. Together we wrangle, pack, and lead the burros, and help out with camp cooking and cleanup. Children over age seven are welcome. This year three of our burro trips are specifically geared toward families.

Routes reach elevations of up to 12,000 feet. Hiking without a heavy backpack will relieve you of a major source of fatigue, but the activity of leading and caring for the burros does make these trips moderately demanding. You need to be in good physical condition.

Cottonwood Lakes Basin Family Trip, Inyo Forest, Sierra—July 16–23. This short trip in the southern Sierra is perfect for families seeking a week away in the wilderness. We'll be camping among numerous lakes inhabited by rare native golden trout. We'll enjoy several layover days, allowing lots of time for exploring or fishing. *Leader: Ted Bradfield. Price: adult \$595, Dep: \$100; child \$400, Dep: \$50. [95238]*

Miter Basin Family Trip, Sequoia Park, Sierra—July 23–30. Dotted with vistas, lakes, and peaks, our moderate route

Left, Mt. Banner, Ansel Adams Wilderness; right, Evolution Valley, Sierra.

will penetrate the southern edge of the glaciated Sierra landscape. Magnificent Miter Basin, a couple of ridges south of Mt. Whitney, will be our primary destination. Fishing, dayhiking, and lounging are all on the agenda. Burros will carry the loads as we move from camp to camp. On layover days we will be free to explore this beautiful wilderness. *Leader: Robin Spencer. Price: adult \$595, Dep: 100; child \$400; Dep: \$50. [95239]*

Mt. Langley Family Trip, Sequoia Park, Inyo Forest, Sierra—July 30–August 6.

This trip takes us over moderate Cottonwood Pass onto the northern edge of the Kern Plateau. One destination is just below a dramatic peak named The Major General. With its foxtail pines and Clark's nutcrackers, this timberline landscape is delightful. There are terrific opportunities for dayhikes and fishing. The burros keep our spirits up and carry our loads. *Leader: Anne Parker. Price: adult \$595, Dep: \$100; child \$395, Dep: \$50. [95240]*

Rocky Basin Lakes, Golden Trout Wilderness, Sierra—August 6–13. Join us as we lead our long-eared friends into Sierra wilderness most travelers never see. Our adventure starts in the east Sierra town of Lone Pine. We enter at Horseshoe Meadow (10,000 feet), crossing over Cottonwood Pass (11,200 feet) to Rocky Basin Lakes, then move through a land of alpine lakes, fishing, crystal-clear streams, jagged spires, quiet forests, and picturesque meadows filled with wildflowers. *Leader: Rich Hamstra. Price: \$625; Dep: \$100. [95241]*

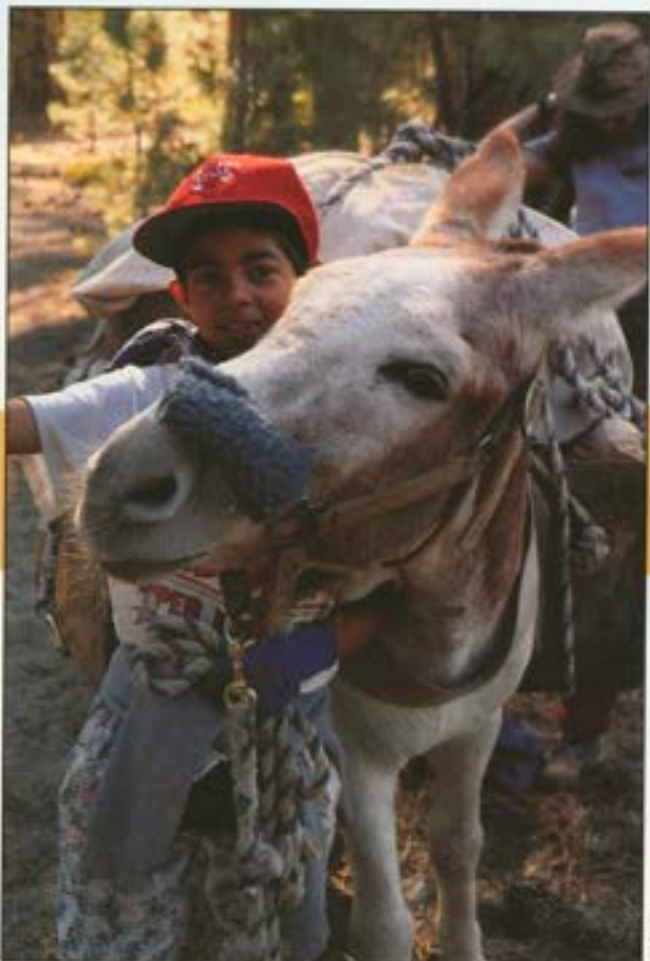


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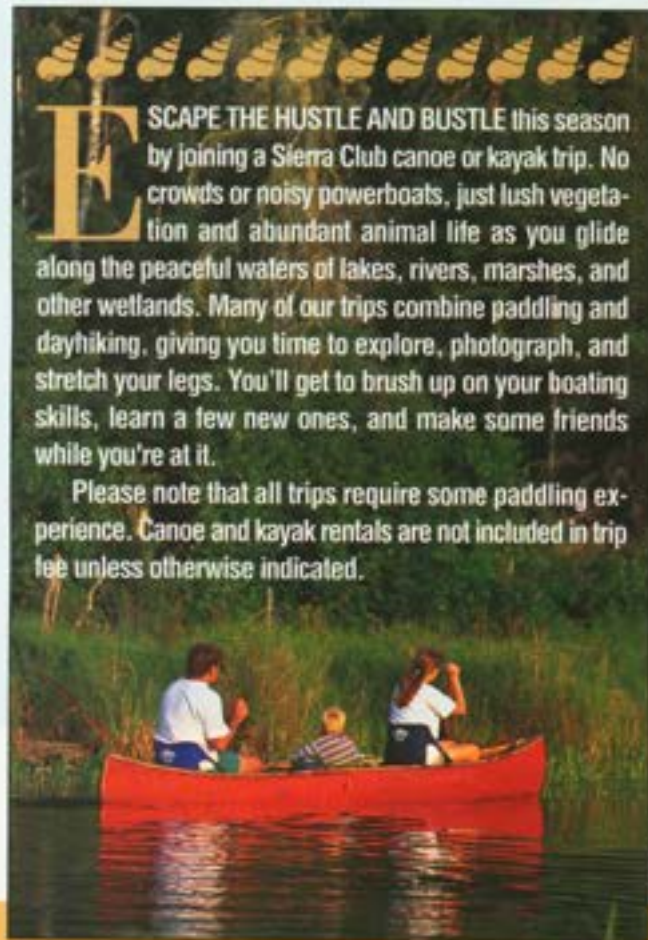
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CANOE & KAYAK

DAVE SCHIFFELIN

ESCAPE THE HUSTLE AND BUSTLE this season by joining a Sierra Club canoe or kayak trip. No crowds or noisy powerboats, just lush vegetation and abundant animal life as you glide along the peaceful waters of lakes, rivers, marshes, and other wetlands. Many of our trips combine paddling and dayhiking, giving you time to explore, photograph, and stretch your legs. You'll get to brush up on your boating skills, learn a few new ones, and make some friends while you're at it.

Please note that all trips require some paddling experience. Canoe and kayak rentals are not included in trip fee unless otherwise indicated.



DOROTHY WATZKE



MIKE ANICH



STEPHEN J. LAMAR

Top, sand patterns, Pacific Coast; above left, Lake of the Woods, Ontario, Canada; above right, great egret, Everglades National Park, Florida; left, Allagash Wilderness Waterway, Maine.

The Florida Everglades by Kayak: A Natural History Tour—January 29–February 4.

Wetlands forests, deserted islands, open bays, and narrow mangrove creeks are all featured on this enchanting paddling and hiking tour of the 10,000 Islands region of Florida's Gulf Coast. From the water as well as on foot, we will explore this threatened domain, searching for ancient artifacts, and rare and exotic plants and

animals. This trip is suitable for beginners with paddling experience. *Leader: Marjorie Richman. Price: \$885; Dep: \$100. [95426]*

Canoeing Everglades Park, Florida—February 5–10. We camp at the southern tip of Everglades National Park, a threatened subtropical wilderness. Our daily canoe explorations take us through mangrove and buttonwood, freshwater ponds,



brackish water, open coastal prairies, and saltwater marshes—home to rare plants, birds, and animals. This leisure trip is for competent canoeists who enjoy birding, animal-watching, and photography. *Leaders: Otto and Vivian Spielbichler. Price: \$275; Dep: \$50. [95059]*

Canoeing Okfenokee Swamp, Georgia—March 26–31. From our base camps on both the east and west edges of this great swamp, we will canoe various sections of the Okfenokee. We will explore coastal prairies and cypress forests, habitat for birds, mammals, and reptiles

(such as Pogo and friends!). This trip is suitable for canoeists of all ages who enjoy birding, animal-watching, and photography. *Leaders: Vivian and Otto Spielbichler. Price: \$290; Dep: \$50. [95060]*

Okfenokee Wildlife Refuge Family Canoe, Georgia—April 9–14. See page 90 for details. *Leader: Marty Joyce. Price: adult \$340, child \$230; Dep: \$50. [95065]*

Spring and River Country, North Central Florida—April 16–22. See page 78 for details. *Leader: Steve Rodney. Price: \$410; Dep: \$50. [95052]*

Lakes and Lures, Boundary Waters Canoe Area Wilderness, Minnesota—May 21–27. Paddle, portage, and fish in remote lakes along the U.S.-Canadian border during peak

fishing season. Try your luck for walleye, northerns, smallmouth bass, and lake trout. Search for Indian pictographs, waterfalls, wildflowers, and more mushrooms. We'll see mergansers, hear loons call, and maybe spot a moose or black bear. Eat fresh fish and enjoy the beauty of the North Woods before tourist season. *Leader: Max Bonecutter. Price: \$535; Dep: \$100. [95062]*

Glacier Bay Sea Kayak, Glacier Bay Park and Preserve, Alaska—June 3–15. See page 58 for details. Kayak rental included in trip fee. *Leader: Jack McCarron. Price: \$1,895; Dep: \$200. [95108]*

Allagash Wilderness Waterway Restoration, Maine—June 17–25. See page 110 for details. *Leaders: Doug Palmer and Janet Evans. Price: \$370; Dep: \$50. [95292]*



Isle Royale Park by Canoe, Lake Superior, Michigan—September 3-9. Explore the inlets and islands of this wilderness archipelago populated by timber wolf and moose. An island national park of 210 square miles, Isle Royale includes protected shores and inland lakes. We'll average two portages and 12

Special Needs Sea Kayaking, Kenai Fjords Park—July 29-August 4. See page 60 for details. Screening and special approval required; kayak rental included in trip fee. Leader: *Gregg Williams*. Price: \$1,195; Dep: \$200. [95122]

Upper left, Lake of the Woods, Ontario; lower left, Allagash Wilderness, Maine; above, Everglades Park, Florida; right, Round Pond, Allagash Wilderness, Maine.

Upper Ottawa River by Canoe, Parc De La Verendrye, Quebec, Canada—August 12-20. An eagle soars above the remote headwaters of the mighty Ottawa River. A moose watches as we paddle through the forests of western Quebec. We may not see another person on our adventure following ancient Indian and fur trader waterways, portaging past dramatic waterfalls, camping where we find space, and sharing the work and joy of canoeing the wilderness. Unforgettable. Leader: *Herb Gordon*. Price: \$665; Dep: \$100. [95243]

Paddler's Paradise, Boundary Waters and Quetico Park, Minnesota-Ontario Border—August 15-21. Paddle and portage the quiet Northwoods, listen to the laughter of loons, stalk wild moose, sit by dramatic waterfalls, and search the rocky shores for ancient Indian pictographs. With over one million pristine acres of glaciated wilderness, the Boundary Waters is paradise for the wilderness canoeist. The clear, blue, interconnecting lakes and rivers offer fishing, swimming, and relaxation at day's end. Leaders: *Faye and Ann Sitzman*. Price: \$540; Dep: \$100. [95244]



miles per day. In early fall, a time of moderate air and water temperature, we hope to avoid crowds and insects. Leader: *Larry Ten Pas*. Price: \$510; Dep: \$100. [95245]

Sylvania Wilderness Trail and Campsite Maintenance Service Trip, Upper Peninsula, Michigan—September 17-23. See page 115 for details. Leader: *Bill Sheppard*. Price: \$305; Dep: \$50. [95348]

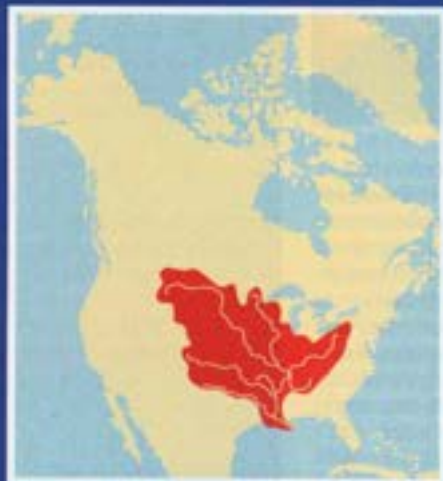
Sea Kayaking in Kauai—June 18-24. See page 94 for details. Kayak rental included in trip fee. Leader: *Jill McIntire*. Price: \$1,115; Dep: \$200. [95263]

Kayak the Glaciers, Prince William Sound, Alaska—June 30-July 8. See page 59 for details. Kayak rental included. Leaders: *Ian Walton and Martha Schultz*. Price: \$1,550; Dep: \$200. [95114]

Algonquin Park Canoe Area Service Trip, Ontario, Canada—July 20-30. See page 112 for details. Leaders: *Irwin Rosman and Sally Daly*. Price: \$320; Dep: \$50. [95314]

Gates of the Arctic Canoe Exploration, Alaska—July 28-August 9. See page 60 for details. Canoe rental included. Leader: *Chet Dunbar*. Price: \$2,995; Dep: \$200. [95121]

MISSISSIPPI BASIN



The Mississippi Basin ecoregion, the fourth largest drainage basin in the world, drains land in 33 states and three Canadian provinces.

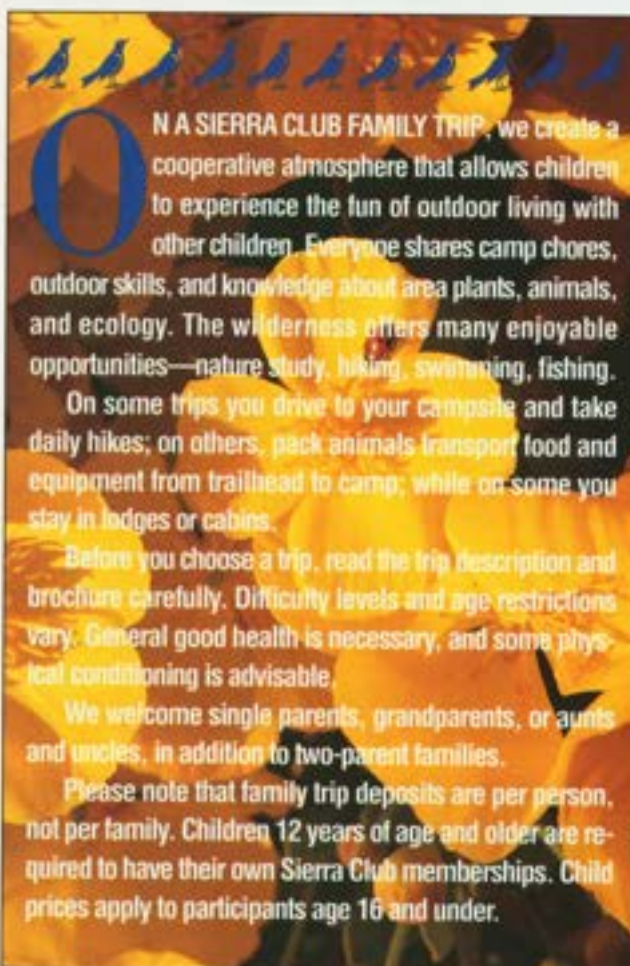
Sadly, only a tiny percentage of it is preserved in national parks and wilderness areas. The Sierra Club is striving for a Mississippi River system restored to environmental wholeness, whose waters are drinkable, free of sewage and toxic pollution, and home once again to sustainable communities of native plants and animals as well as humans.

To this end the Club is working to amend the Clean Water Act to establish a Mississippi Basin Initiative that will set uniform standards for cleanliness.

Our objectives include improved soil-conservation practices to prevent erosion and toxic run-off, a moratorium on hazardous waste incinerators, and designation of new or expanded wilderness areas, Wild and Scenic Rivers, parks, and refuges.

The Sierra Club offers several outings in the ecoregion. Note particularly our trips in Arkansas and Illinois.

FAMILY



ON A SIERRA CLUB FAMILY TRIP, we create a cooperative atmosphere that allows children to experience the fun of outdoor living with other children. Everyone shares camp chores, outdoor skills, and knowledge about area plants, animals, and ecology. The wilderness offers many enjoyable opportunities—nature study, hiking, swimming, fishing.

On some trips you drive to your campsite and take daily hikes; on others, pack animals transport food and equipment from trailhead to camp; while on some you stay in lodges or cabins.

Before you choose a trip, read the trip description and brochure carefully. Difficulty levels and age restrictions vary. General good health is necessary, and some physical conditioning is advisable.

We welcome single parents, grandparents, or aunts and uncles, in addition to two-parent families.

Please note that family trip deposits are per person, not per family. Children 12 years of age and older are required to have their own Sierra Club memberships. Child prices apply to participants age 16 and under.

aged two and up. *Leader: Jennifer Taddai. Price: adult \$375, child \$250; Dep: \$50. [95066]*

Arches and Canyonlands Parks Adventure, Utah—April 15–21. See description for trip #95066 above. This section is appropriate for children aged five and up. *Leaders: Margaret and Vern Cleverger. Price: adult \$375, child \$250; Dep: \$50. [95067]*

A–Z Toddler Tromp, Prince William Forest Park, Virginia—April 16–21. Age-based, curiosity-driven, ecology-focused, gentle hiking, insect jars, knot-learning, meeting nature, organized playtime, quiet relaxation, s'mores toasting, unusual vacation, water "xings," youngster zanyness: Tent-camping, ranger program, conservation project, some personal vehicle use required. Optional day-trip to D.C. natural areas. *Leader: Howard Luehrs. Price: adult \$245, child \$165; Dep: \$50. [95068]*

Gem of the Grand Canyon Adventure, Havasupai, Arizona—June 4–10. Havasu is hidden deep in the Grand Canyon on the Havasupai Reservation. Hiking from Hualapai Hilltop, we descend four geological strata of the Grand Canyon. From our base camp on Havasu Creek we'll enjoy swimming in turquoise-blue pools beneath spectacular waterfalls, hiking, photography, and relaxation. We will also visit the Indian village of Supai. Minimum age eight. *Leader: Bob Flores. Price: adult \$595, Dep: \$100; child \$395, Dep: \$50. [95247]*

Colonial Maryland—June 15–19. We'll cover 100 years of colonial history in our explorations of the "old country" outside our nation's capital. Day-trip destinations include St. Mary's

City, Maryland's original settlement; a colonial farm museum; a cypress swamp and tidal marshes teeming with wildlife; and a state park complete with fossils! Activities are suitable for all ages; travel is by carpool and foot; accommodations are in local campgrounds. Most dinners not included in trip price. *Leader: Ernie Bauer. Price: adult \$310, child \$210; Dep: \$50. [95248]*

Kauai Family Adventure, Hawaii—June 24–July 1. Come one, come all, for a summer delight on the Garden Isle. Experience the island's exciting and surprising contrasts—the beautiful Na Pali Coast, rugged Waimea Canyon, mysterious Alakai Swamp, and dramatic beaches. Our pace will be com-

Okfenokee Wildlife Refuge by Canoe, Georgia—April 9–14.

Explore the nation's largest freshwater swamp with your family. From our base camp at Stephen Foster State Park, we'll canoe through cypress forests and lily-pod ponds, hike on raised platform trails, and visit abandoned settlements and historical sites. We may even catch a glimpse of the rare cottontail alligator. Suitable for families with some canoe experience and kids six and older. Canoe rental not included. *Leader: Marty Joyce. Price: adult \$340, child \$230; Dep: \$50. [95065]*

Arches and Canyonlands Parks Adventure, Utah—April 15–21.

Spring is a good time to visit the heart of Utah's canyon country. We'll see the arches, including Delicate and Devil's arches, The Windows, and Fiery Furnace, and also explore the Needles District of Canyonlands National Park. Short, easy day-hikes make this trip suitable for young children and parents with child-carry packs. Other trip highlights include evening ranger presentations and a lay-over day for families to explore on their own. This section of the trip is appropriate for children



NOTE:
FAMILY
TRIP DEPOSITS
ARE PER
PARTICIPANT,
NOT PER
FAMILY.

portable as we explore our many options: hiking, snorkeling, and sightseeing. Enjoy the awesome view from our rustic beach lodging. Children of all ages welcome. Leaders: *Bob Smith and Wayne Martin*. Price: adult \$785, child \$525; Dep: \$100. [95069]

Redrock Country and Sacred Mountain, Coconino Forest, Arizona—June 24–July 1.

Base camp trip with activities geared toward fun and environmental education for children aged 6 to 12. Four-wheel drive vehicles take us to dayhike destinations to explore the geology, fragile wilderness, and ancient Indian culture of this area. It should be sunny, with tempera-

tures between cool and very hot. Our most strenuous day climbs 3,800 feet. Oak Creek Canyon, Anasazi Indian ruins, and Sunset Crater are other highlights. Two dinners not included. Leader: *Jim Murphy*. Price: adult \$450, child \$300; Dep: \$50. [95249]

Dinosaur Monument Family Adventure, Colorado—June 26–28. Join this family-oriented, oar-powered raft trip through the Green River's Lodore Canyon, a colorful canyonland maze in Dinosaur National Monument. Our professional guides will cook the meals for us and provide special activities for the children, including in-camp games, campfire stories, star-gazing, wildlife watch-

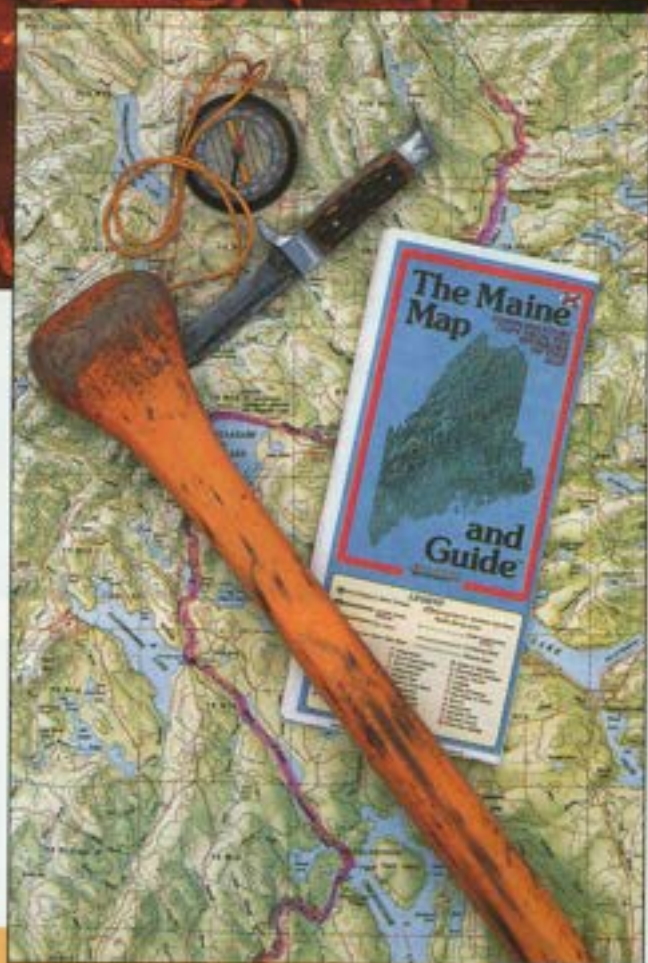


PHOTO: JAMES



PHOTO: JAMES

Counterclockwise from above: manzanita bark, Sequoia National Park, Sierra; bush poppy, Sierra; family camping in Sierra; Abrams Fall, Cades Cove, Great Smoky Mountains; map and compass.

ing, and hikes to view Indian rock art. Minimum age five. Leader: *Tony Strano*. Price: adult \$425, child \$375; Dep: \$50. [95250]

Arizona Trail Service Trip, Coconino Forest, Arizona—June 28–July 1. Bring the family to work on the Arizona Trail and camp in the Coconino Forest of northern Arizona. Spectacular scenery. Suitable for children five and up with prior camping experience. Leader: *Terry Esch*; Cook: *E. B. Dalton*. Price: adult \$195, child \$130; Dep: \$50. [95251]

Stehekin Valley, North Cascades, Washington—July 9–15. Join us in a glacier-carved valley surrounded by the alpine heights

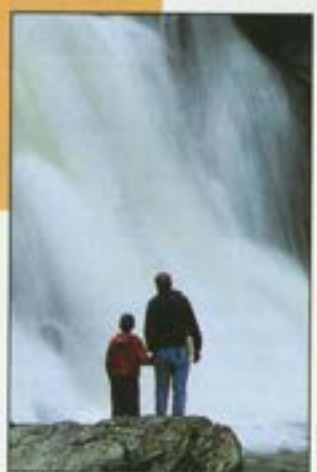
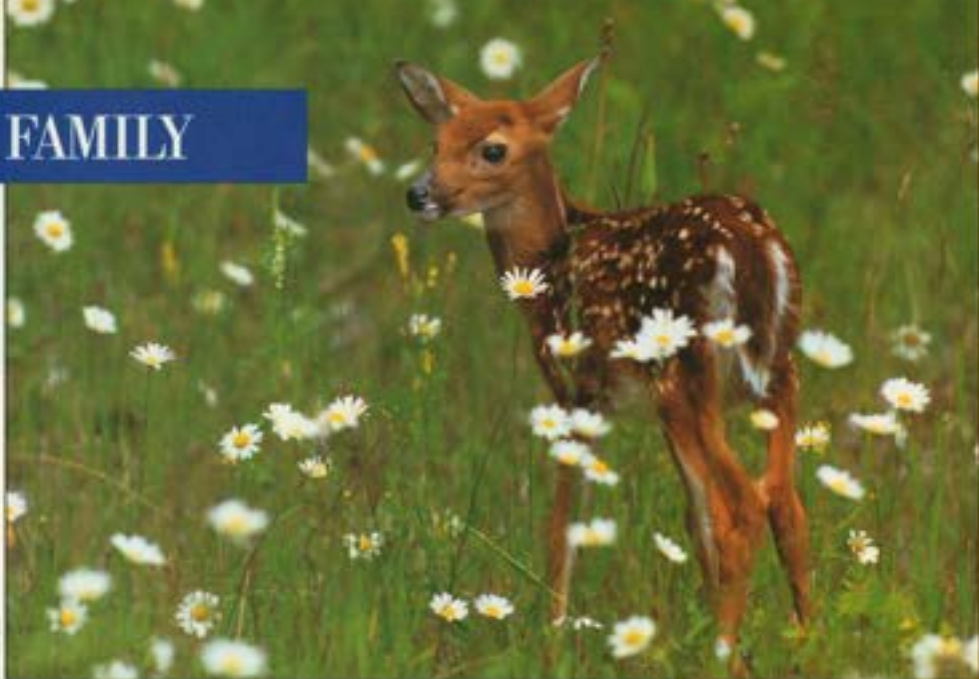


PHOTO: JAMES

of the Cascades. Fifty miles by ferry up deep Lake Chelan lead to our base camp of rustic cabins at the Courtney Ranch, where family-style meals are superb. Daily hikes on well-marked trails vary from easy to strenuous. Suitable for children six and older. Teenagers welcome. Leaders: *Anne and Barry Hainer*. Price: adult \$760, child \$505; Dep: \$100. [95252]



Cottonwood Lakes Basin Burro Trip, Inyo Forest, Sierra—July 16–23. See page 86 for details. *Leader: Ted Bradford.* Price: adult \$595, Dep: \$100; child \$400, Dep: \$50. [95238]

Gulf of Alaska Base Camp, Chugach Forest, Alaska—July 22–28. See page 59 for details. *Leader: Susanne George.* Price: adult \$635, Dep: \$100; child \$425, Dep: \$50. [95115]

Purple Lake and Cascade Canyon, John Muir Wilderness, Sierra—July 22–29. Thrill to views of the Silver Divide and explore the 20-plus glacier-carved lakes above our campsite, climb a jagged granite peak along the Sierra Crest, and join in the campfire games and activities. Families with children eight and older who are in good shape for the nine-mile hike in (2,000-foot elevation gain) are encouraged

to join this packer-assisted base-camp trip. *Leader: Becky Hawk Lynch.* Price: adult \$625, Dep: \$100; child \$420, Dep: \$50. [95253]

Miter Basin Burro Trip, Sequoia Park, Sierra—July 23–30. See page 86 for details. *Leader: Robin Spencer.* Price: adult \$595, Dep: \$100; child \$400, Dep: \$50. [95239]

Dinosaur Monument Raft Adventure, Utah—July 24–July 27. Join this family-oriented, oar-powered raft trip on the Green River through Dinosaur National Monument's Lodore and Split Rock canyons. Professional guides prepare our meals and help with special activities for the children, including in-camp games, wildlife-watching, visiting a dinosaur fossil bone quarry, and water fun. A free day allows us to stop at Jones Creek to hike, swim, and view Indian rock art. Minimum age five. *Leader: Mark A. Larson.* Price: adult \$550, child \$500, Dep: \$100. [95254]

The Minarets and Emily Lake, Ansel Adams Wilderness, Sierra—July 29–August 5. Enjoy lovely Emily Lake, nestled at 9,900 feet in the breathtaking Minarets near majestic Mt. Ritter and Banner Peak. We'll have fun hiking, fishing, and peak-climbing in this magical setting. Some of the hiking will be moderately strenuous and challenging, but the incredible views will make it

Left to right: Yosemite National Park, Sierra; white-tail deer, Eureka Valley, California; Supai Falls, Havasupai Indian Reservation, Arizona.

worthwhile. A perfect trip for families with children eight years or older. *Leaders: Donna Wells and Tom Carlie.* Price: adult \$520, Dep: \$100; child \$345, Dep: \$50. [95255]

A Week in the Teton Wilderness, Wyoming—July 30–August 5. The majesty of the Tetons is renowned. Bring your family and share with them the beautiful, high mountain country and its breathtaking scenery, reached with horse-pack assistance. Opportunities abound to see wildlife in their natural habitat, surrounded by wildflowers, lush pine meadows, pine forests and trout. You and your family will enjoy the solitude and tranquil environment of this pristine wilderness. Children of all ages welcome. *Leader: Bob Flores.* Price: adult \$565, Dep: \$100; child \$375, Dep: \$50. [95256]

Mt. Langley Burro Trip, Sequoia Park, Sierra—July 30–August 6. See page 86 for details. *Leader: Anne Parker.* Price: adult \$595, Dep: \$100; child \$395, Dep: \$50. [95240]

Skyline to the Sea, Santa Cruz Mountains and Coast, California—July 31–August 6. Pack



your hiking boots and swimsuit for this moderate nature-oriented trip, appropriate for kids six and older. We start by exploring the redwood-filled gorges of Big Basin State Park, where we'll visit waterfalls and swimming holes, and enjoy forest solitude from our base camp on an idyllic meadow. Moving to the coast, we'll visit a mammal reserve and stay at a lighthouse. *Leaders: Paris Lemos and Susanne George. Price: adult \$490, child \$330; Dep: \$50. [95257]*

Black Lake and North Palisade Glacier, John Muir Wilderness, Sierra—August 5–12. Spend a week at a cluster of alpine lakes, set at 10,800 feet below a peerless collection of alpine peaks. This marvelous place offers us

choices of dayhiking, peak-bagging, fishing, and relaxation in habitats ranging from forest to glacier. Our campsite is reached by a moderately difficult, six-mile, 3,200-foot elevation gain hike starting near Big Pine. Suitable for kids six and older. *Leader: Carol Baker. Price: adult \$570, Dep: \$100; child \$380, Dep: \$50. [95258]*

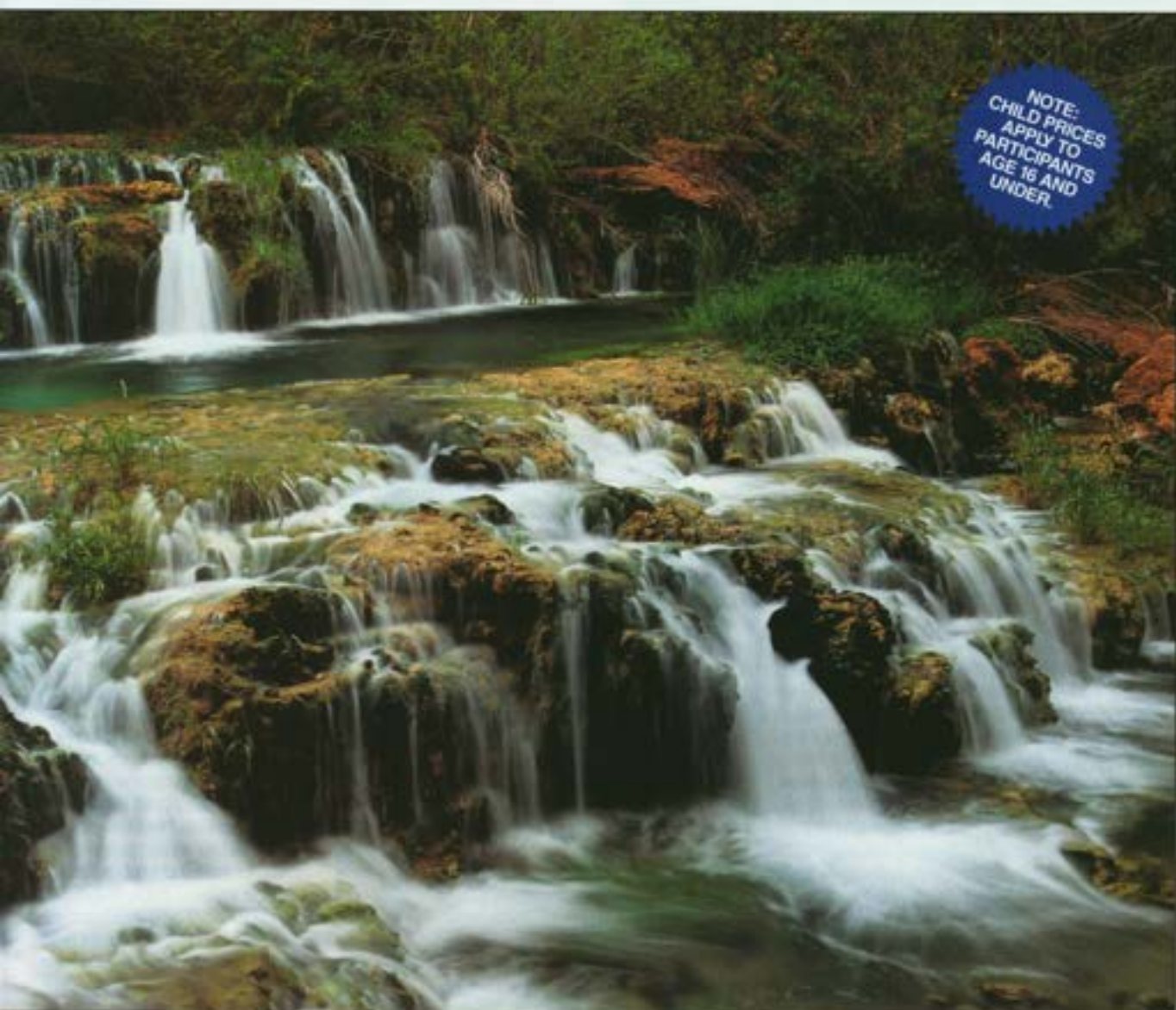
Clair Tappaan Lodge Service Trip, Tahoe Forest, Sierra—August 6–12. We'll stay at the Sierra Club's rustic lodge near Donner Summit and do trail work. Spend free days hiking, swimming, fishing, relaxing, or visiting nearby Lake Tahoe. Suitable for children four and older. *Leader: TBA. Price: adult \$195, child \$130; Dep: \$50. [95259]*

Stehekin Valley, North Cascades, Washington—August 6–12. See description for trip #95252 above. *Leaders: Jennifer and Ron Taddel. Price: adult \$760, child \$505; Dep: \$100. [95260]*

Acadia Toddler Tromp, Acadia Park, Maine—August 13–19. With activities planned to accommodate family demands, this outing is for those with children aged 2 to 14. Grandparents and single-parent families are welcome too. Opportunities include cycling, hiking, exploring carriage roads, canoeing, boat trips to islands, the Oceanarium, Otter Cliffs, beaches, lighthouses, lobster, and blueberries. Our campsites are located near Acadia National

Park. *Leaders: Beth and Phil Titus. Price: adult \$470, child \$315; Dep: \$50. [95261]*

Just for Grandparents and Grandchildren, Tahoe Forest, Sierra—August 27–September 1. Do you dream of spending more quality time with your grandchildren, or of sharing your knowledge of the outdoors with them? You can do just that on this comfortable outing based at the Sierra Club's own Clair Tappaan Lodge. Swim and hike with us, or go off on your own adventure. If you think your grandkids are old enough (five and up) to be away from their parents for five days, go for it! *Leaders: Helen and Jim Maas. Price: adult \$315, child \$215; Dep: \$50. [95262]*



NOTE:
CHILD PRICES
APPLY TO
PARTICIPANTS
AGE 16 AND
UNDER.

HAWAII



THE HAWAIIAN ISLANDS offer unsurpassed beaches, rainforest as well as desert, delicious and exotic food, and natural splendor at every turn. Get off the beaten path — join a Sierra Club Hawaii trip, and experience the islands as few tourists do. This year we have trips to entice everyone — backpackers, bicyclists, sea kayakers, families, and willing volunteers.

Accommodations vary from oceanfront lodges to campgrounds. Camping is in public or private parks, often within sight and sound of the Pacific Ocean, and usually with amenities like hot showers.



Whale of an Outing, Maui Service Trip—March 19–31.

How do whale calves gain the strength to swim from their Hawaiian birthplace to Alaska? Find out when you take part in an ongoing research project observing humpback whale behavior and monitor their numbers off the coast of Maui. We'll also hike and explore a variety of island terrains—lush tropical forests, an ancient trail along a rugged coastline, and spectacular Haleakala Volcano. *Leader: Ray Simpson. Price: \$1,035; Dep: \$200. [95070]*

Hawaii Spring Rainbow—April 8–17. A broad-spectrum excursion to the Big Island offers hiking in Volcanoes National Park, snorkeling, swimming at a

new state park, and joining a local chapter outing. We'll observe tropical plants and birds, varieties of coral, colorful fishes, and multi-hued sand beaches. We begin with lodgings in Hilo; move to a state park; and conclude the trip camping on a remote white sand beach. *Leader: Lynne Simpson. Price: \$885; Dep: \$100. [95071]*

Sea Kayaking in Kauai—June 18–24. Kayaking the wilderness Na Pali coast is a not-to-be-missed experience. Using a sit-on-top kayak, our small group will explore sea caves along the coast. We'll also walk cool inland valleys where ancient Hawaiians lived, and snorkel with sea turtles and colorful reef fishes. Just a hint of what's to come! This trip

is not suitable for non-swimmers. Kayak rental included in trip fee. *Leader: Jill McIntire. Price: \$1,115; Dep: \$200. [95263]*

Kauai Family Adventure, Hawaii—June 24–July 1. See page 90 for details. *Leaders: Bob Smith and Wayne Martin. Price: adult \$785, child \$525; Dep: \$100. [95069]*

Bicycling the Big Island, North—July 1–8. Bring your snorkeling gear and camera for this cycling trip around the north half of the Big Island of Hawaii. By alternating riding days with layovers, we will be able to explore lava pools, wander small towns, and enjoy fabulous scenery. Our sag wagon will take our gear to each evening's local hotel. Longest day is 45 miles. Meals not included in trip fee. *Leader: Jill McIntire. Price: \$385; Dep: \$50. [95264]*

Bicycling the Big Island, South—July 8–15. Starting on the Kona coast of the Big Island, we'll see historic monuments and beautiful beaches, and stay in quaint hotels before ascending to Volcanoes Park for a day of exploring Pele's mysteries. A long descent will take us from

4,000 feet to lava pools at sea level. The longest day is 48 miles, with most days much shorter. Meals not included in this intermediate-level, sag-

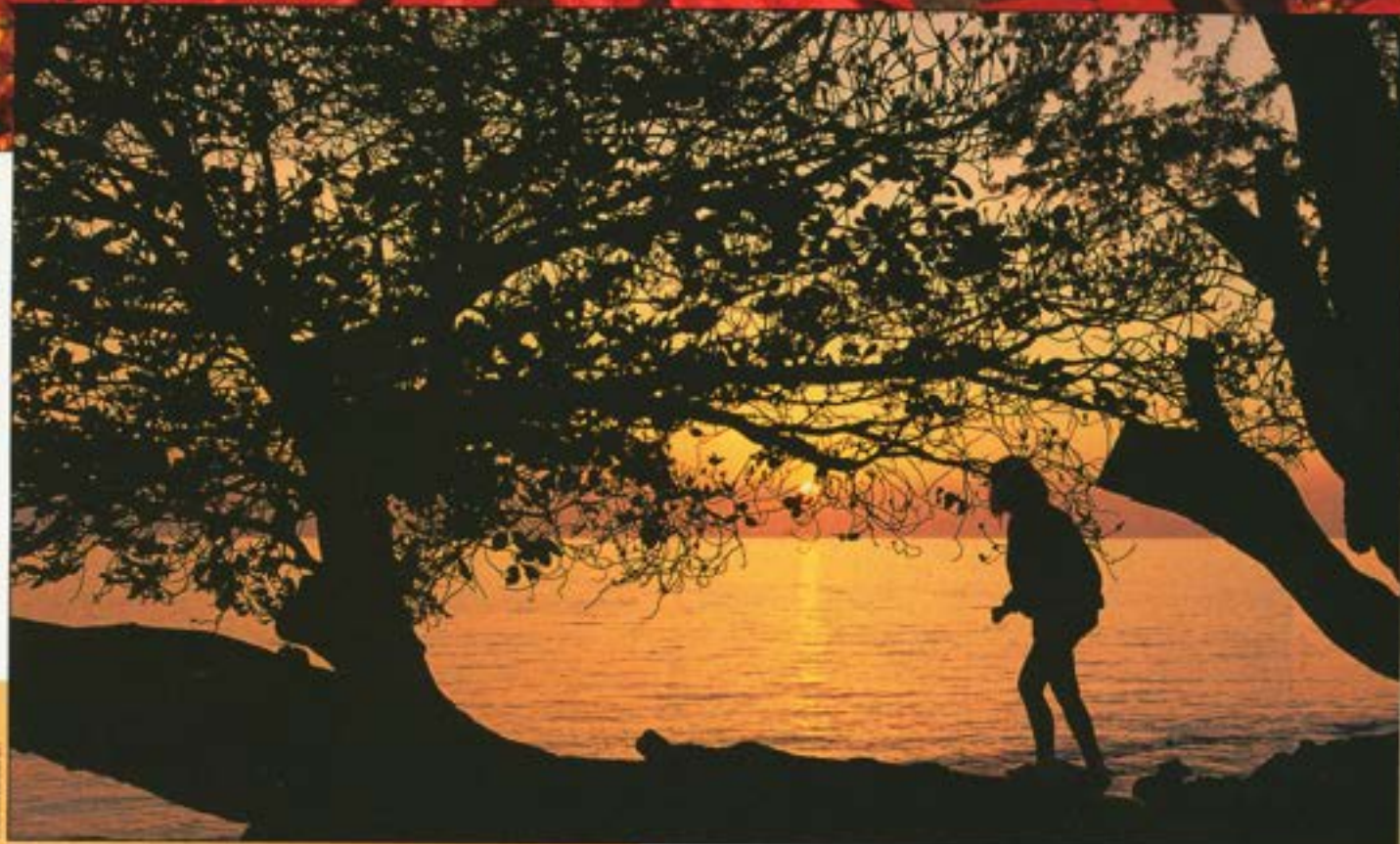


wagon-supported trip. *Leader: Jill McIntire. Price: \$395; Dep: \$50. [95265]*

Big Island Coast Backpack—October 3–14. On the Big Island of Hawaii we'll explore miles of remote coastline. First we'll backpack along the dry and geologically young lava coast of Hawaii Volcanoes National Park. Then we'll move on to the tropical jungles and streams of the lush, windward coast. White and black sand beaches, tide pools, and waterfalls will be part of this adventure. (Rated M) *Leader: George Winsky. Price: \$985; Dep: \$100. [95266]*

Mauna Loa Backpack—October 16–22. Mauna Loa Volcano on the Big Island of Hawaii is the





Top, poinsettia, Maui; left to right: Wehu'ula, Hawaii Volcanoes National Park, Big Island, Hawaii; Big Island, Hawaii; lava steam from Kilauea Volcano, Hawaii Volcanoes National Park; North Kohala Coast, Big Island, Hawaii.

7,000 feet to the windward coast where we will have a few days to dayhike and explore near the

town of Hana. (Rated S) Leader: George Winsley. Price: \$955; Dep: \$100. [95268]

largest single mountain mass on Earth. We will explore the stark beauty of the mountain on this backpack trip up the volcanically active northwest rift to the 13,667-foot summit. Layover days at cabins allow time to acclimatize, explore recent eruption areas, and dayhike around the summit caldera. (Rated S) Leader: George Winsley. Price: \$710; Dep: \$100. [95267]

Haleakala Backpack—October 24–November 1, Maui's

Haleakala ("House of the Sun") provides great backpacking in its huge summit caldera. Silver-sword plants, the bottomless pit, and the endangered Hawaii state bird, the Nene, are some of the highlights we'll encounter. Hiking out of the crater, we drop

H A W A I I



More than 2,000 miles from the nearest continental land mass, the Hawaiian archipelago is the most geographically isolated place in the world. More than 90 per cent of its native flora and fauna exist nowhere else, while nearly 75

per cent of documented plant and bird extinctions in the U.S. have occurred here. Tourism brings in ten billion dollars annually, but development of tourist facilities and activities is one of the major pressures on the delicate habitats of the islands.

The Sierra Club seeks a Hawaii where native habitats maintain their wild richness, the coast and sea are safeguarded from pollution, human disruptions are minimized, and tourism is maintained at a negligible cost to the environment. We support legislation that would restrict helicopter flights over national parklands and limit them in other sensitive areas.

We are also working to strengthen regulations regarding geothermal exploration and to prevent further destruction of endangered and threatened plant and animal habitat.

Learn about these issues firsthand and explore the natural riches of Hawaii yourself on a Sierra Club trip to Maui, Kauai, or the Big Island.

HIGHLIGHT



HIGHLIGHT TRIPS ARE DESIGNED for people who like to hike or walk and cover a lot of territory with only a daypack. For luxurious mountain travel, try one of our wilderness highlight trips. On moving days pack animals carry 22 pounds per person plus all food and equipment from camp to camp. You are free to hike to the next camp at your own pace, enjoying unencumbered opportunities to fish, climb, or hike to isolated viewpoints.

Other highlight trips go to less remote areas and use vans between sites, enabling you to visit a larger territory. Accommodations range from campgrounds to lodges.

Families with children 12 or older are welcome. Routes and mileages are within the ability of anyone who has done a reasonable amount of pre-conditioning.



Fly-Fishing and Dayhiking Tour, Greater Yellowstone, Idaho, Montana, and Wyoming—July 2-8. Fabled trout, alpine meadows, and abundant wildlife—cast your fate while we fish (catch-and-release) and explore the many outstanding cold water streams that rush off the Continental Divide. Vans will move our gear from one campground to the next, to the "hatch," or to our jump-off point for dayhikes with rod in hand. Fly-fishing instruction included in trip fee. Leader:

Don Wolf. Price: \$570; Dep: \$100. [95269]

Wild Wonderland, Grand Teton Park, Wyoming—July 15-22. Enjoy breathtaking views of the glaciated spires of the Teton Range while we hike. We camp by jewel-like lakes fed by mountain streams and bordered by alpine meadows strewn with wildflowers. Three layover days give ample opportunity for fishing, bird-watching, photography, or just relaxing. Hiking with only

daypacks, this trip is suitable for anyone in good physical condition. Leaders: *Diana and Modesto Piazza. Price: \$1,025; Dep: \$200. [95270]*

Harriet Lake Basin, Yosemite Park and Ansel Adams Wilderness, Sierra—August 1-9. Join this 40-mile loop over Isberg Pass (10,560 feet) to Harriet Lake Basin, where we'll explore and enjoy the southern edge of Yosemite. Five moderate hiking days with four layovers provide time to climb peaks, explore, fish, swim, or relax. Our return over Post Peak Pass (10,700 feet) will cap what is certain to be a scenic, memorable experience. Leader: *Bert Gibbs. Price: \$1,100; Dep: \$200. [95271]*

Eastern Kings Canyon, Sierra—August 13-22. This high-elevation trek starts at South Lake, west of Bishop, and ends at Division Creek, Sawmill, Pinchot, Mather, and Bishop passes will afford us fine views of one of the most alpine sections of the Muir Trail. The Palisades will be the backdrop for half our camps. Swimming, climbing, or lazing

about will all be possibilities on our four layover days. Leader: *Jerry Clegg. Price: \$1,220; Dep: \$200. [95272]*

Discovery Tour, Steens Mountain, Oregon—September 10-16. From Bend to the ghost town of Blitzen, the floor of the Alvord Desert to the summit of Steens Mountain, and glacier-cut gorges to hot springs, we'll sample both old and new of the West. We will sightsee by car, dayhike, and help the BLM with a work project. Birding, geology, and history are all highlights. Campground accommodations. Leader: *Irene Vlach. Price: \$530; Dep: \$100. [95273]*

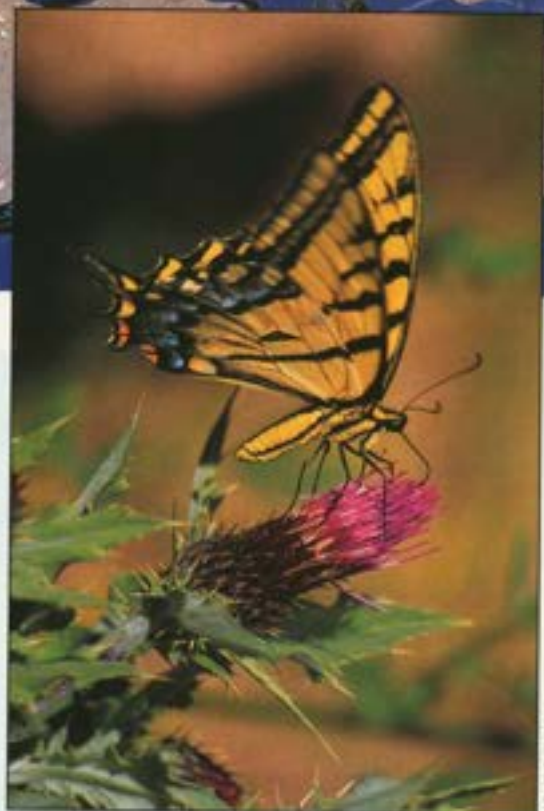
Note: See also Activist, Alaska, Bicycle, Canoe/Kayak, Burro, International, Raft/Sail, and Ski for other highlight-type trips.

Top, gambel oak leaves; left to right: Cuyahoga Valley, Ohio; Kings Canyon, Sierra; Olympic Park, Washington; New Orleans ICCO participants; two-tailed tiger swallowtail.



ICO

JERRY HIGER/ALPINE IMAGES



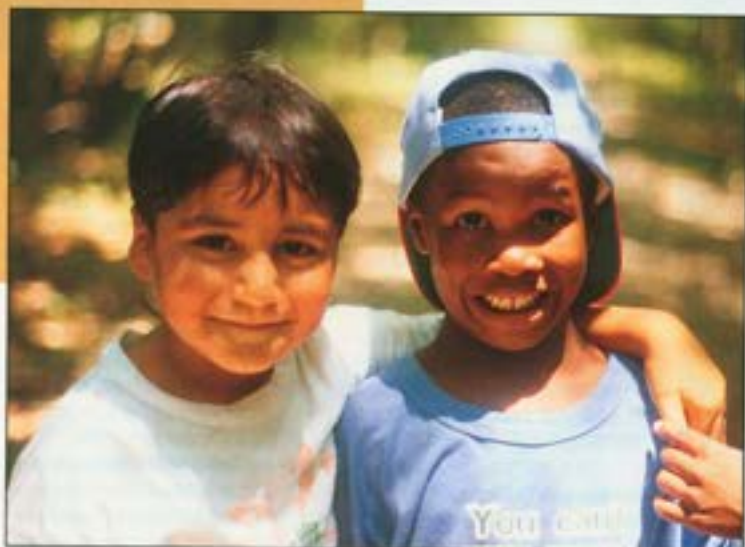
MICHAEL T. FOTI/SHIRAZ

DO YOU REMEMBER THE THRILL of seeing a waterfall for the first time? Or gazing in awe at a sky full of stars, far from the lights of the city? Built on the belief that wilderness is for everyone, the Inner City Outings (ICO) program organizes outdoor experiences for urban youth, as well as for physically challenged and hearing- and sight-impaired adults — a segment of the community that would otherwise lack the opportunity to participate in wilderness adventure.

With the guidance of trained volunteer leaders, participants on ICO outings experience the wilderness through such activities as hiking, backpacking, rafting, camping, and canoeing. In the process, they get to witness the beauty of wild places, learn why it's vital to preserve them, and have fun at the same time. They also learn the value of working together toward a common goal, like erecting a tent or cooking a group meal. The skills gained on such outings — as well as the camaraderie they foster — can make an ICO trip the experience of a lifetime.

If you are interested in starting an ICO group in your area or connecting with an existing program, please contact ICO at the address listed below.

MEL A. HIGBY



KATHY WATSON

In 1994, volunteer leaders provided more than 750 outings for close to 10,000 participants. Currently, there are 42 Inner City Outings groups in these locations:

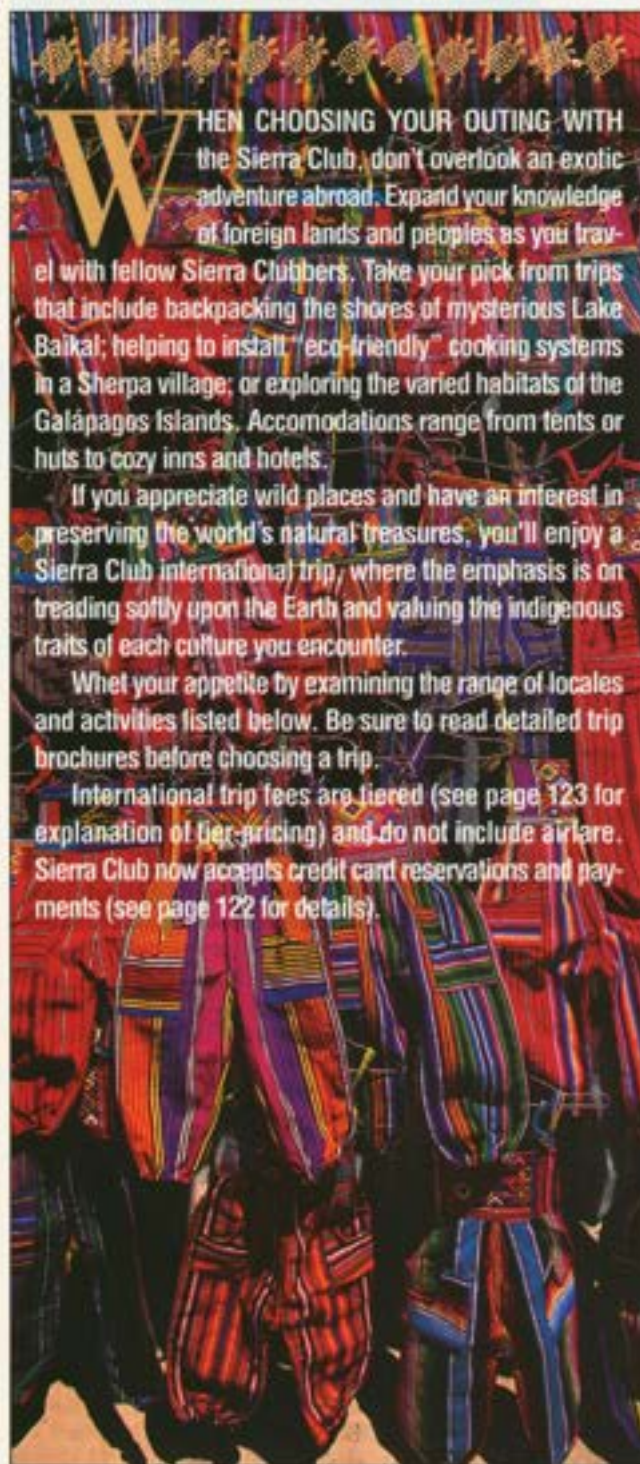
Atlanta, Georgia	New Haven, Connecticut
Austin, Texas	New Orleans, Louisiana
Boston, Massachusetts	New York, New York
Charlotte, North Carolina	Oklahoma City, Oklahoma
Chicago, Illinois	Philadelphia, Pennsylvania
Cincinnati, Ohio	Phoenix, Arizona
Cleveland, Ohio	Portland, Oregon
Dallas, Texas	Raleigh, North Carolina
Denver, Colorado	Reno, Nevada
Detroit, Michigan	Sacramento, California
El Paso, Texas	St. Louis, Missouri
Fairfield County, Connecticut	San Bernardino/Riverside, California*
Ft. Lauderdale, Florida	San Diego, California
Fresno, California	San Francisco, California
Grand Rapids, Michigan*	San Jose, California
Hartford, Connecticut	Seattle, Washington
Houston, Texas	Tampa, Florida
Indianapolis, Indiana	Tucson, Arizona
Lancaster, Pennsylvania*	Tulsa, Oklahoma
Los Angeles, California	Washington, D.C.
Memphis, Tennessee	
Miami, Florida	

*Established in 1994.

Each ICO group is supported by donations of money and equipment. Contributions to the program are tax-deductible. Checks should be made out to: The Sierra Club Foundation/Inner City Outings.

Donations and requests for information about becoming an ICO leader or forming an ICO group should be sent to: INNER CITY OUTINGS, SIERRA CLUB, 730 Polk Street, San Francisco, CA 94109.

INTERNATIO



WHEN CHOOSING YOUR OUTING WITH the Sierra Club, don't overlook an exotic adventure abroad. Expand your knowledge of foreign lands and peoples as you travel with fellow Sierra Clubbers. Take your pick from trips that include backpacking the shores of mysterious Lake Baikal; helping to install "eco-friendly" cooking systems in a Sherpa village; or exploring the varied habitats of the Galápagos Islands. Accommodations range from tents or huts to cozy inns and hotels.

If you appreciate wild places and have an interest in preserving the world's natural treasures, you'll enjoy a Sierra Club international trip, where the emphasis is on treading softly upon the Earth and valuing the indigenous traits of each culture you encounter.

Whet your appetite by examining the range of locales and activities listed below. Be sure to read detailed trip brochures before choosing a trip.

International trip fees are tiered (see page 123 for explanation of tier pricing) and do not include airfare. Sierra Club now accepts credit card reservations and payments (see page 122 for details).

Africa

Kenya/Tanzania Safari Sampler: Portrait of East Africa—June 24–July 8. A delightful and rare photographic experience awaits you on this sensational exposure to some of the best wildlife in Africa. Thousands of wild animals and exquisite birds inhabit the game parks we visit near Mt. Kenya, the Masai Mara, the Serengeti, Lake Victoria, Ngorongoro Crater, and Mt. Kilimanjaro. We will stay in comfortable campsites as well as some of the finest game lodges. Travel will be via foot, van, and overlander. *Leader: Carolyn Castleman. Price: \$4,040 (12-15) / \$4,330 (11 or fewer); Dep: \$200. [95720]*

Asia

Annapurna Sanctuary, Nepal—March 13–26. Our springtime trip begins by exploring the fascinating temples and world-famous bazaars of the fabled city of Kathmandu. Our moderate trek then takes us into the heart of the Annapurna Sanctuary, where we'll be surrounded by the 26,000-foot peaks of the Annapurna Massif. Nepalese guest lodges will provide us with Spartan accommodations and ample food. We'll support the Annapurna Sanctuary conservation program and its planned conversion to fuel-efficient cooking stoves and reduced dependency on scarce firewood. While in Pokhara we will tour the exotic sights and visit a lakeside bazaar. *Leader: John Bird. Price: \$1,615 (8-10) / \$1,870 (7 or fewer); Dep: \$200. [95715A]*

Annapurna Sanctuary, Nepal—March 27–April 9. See trip #95715A above for descrip-

tion. *Leader: John Bird. Price: \$1,615 (8-10) / \$1,870 (7 or fewer); Dep: \$200. [95715B]*

Kangchenjunga Himal, Nepal—May 1–30. Kangchenjunga, the world's third-highest peak (28,208 feet), soars above the unspoiled eastern end of Nepal. We will trek on-trail, on an up-and-down route through terraced fields, thick rhododendron, and bamboo forests, along mountain ridges and across glaciers to our goal—Pangpema (16,500 feet) and the views it affords of towering Kangchenjunga. On the way we will enjoy the magnificent mountains surrounding Yalung Glacier. This is a moderate-strenuous trip. *Leader: Jack Zinker. Price: \$2,680 (12-15) / \$2,970 (11 or fewer); Dep: \$200. [95725]*

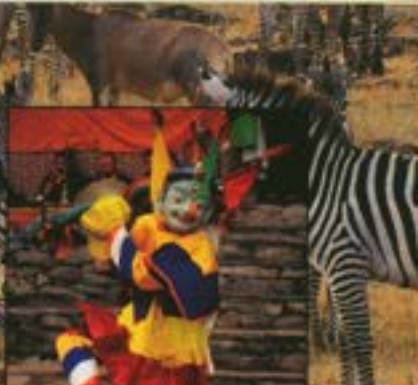
Cultural Connections, Kathmandu-Lhasa Overland, Nepal and Tibet—May 5–18. We'll snake like the tail of a dragon through the highest mountains on earth to the "roof of the world." Protected for centuries by natural barriers, Tibet is now partially open to foreign travel. On this high-elevation trip, we explore this mysterious land by bus and by foot. We'll visit Swayambhunath (the "Monkey Temple"), Bhaktapur, the burning ghats in Kathmandu, Saky Monastery in Shigatse, and the Jokhang Temple and Potala Palace in fabled Lhasa. *Leader: Kern Hildebrand. Price: \$2,790 (12-15) / \$3,080 (11 or fewer); Dep: \$200. [95735]*

Mongolia Service Trip—June 17–July 1. Northern Mongolia's unspoiled and isolated Lake Hovsgol National Park provides habitat for snow leopards, wolves, brown bears, roe deer, elk, and wild boar. When we're not helping Mongolia's new National Park Service create a low-

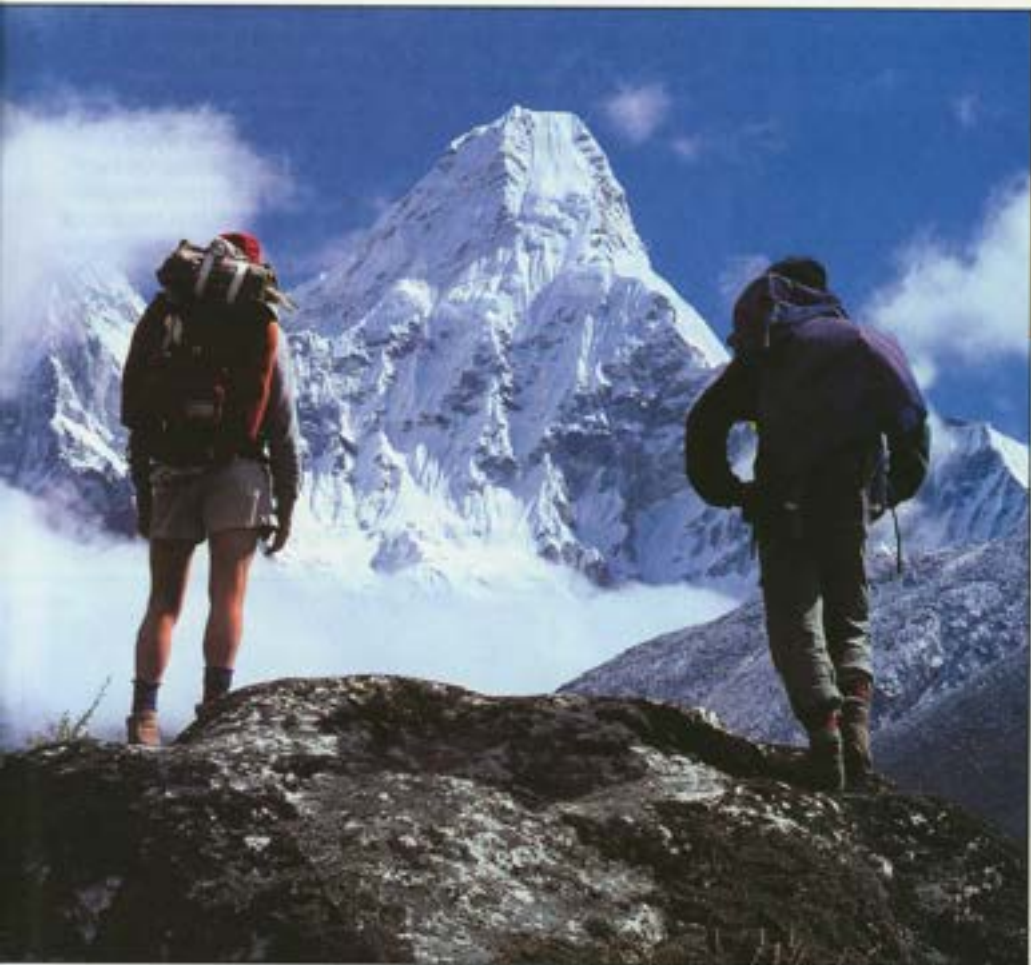
NAT



ART HOLZE



MARCO SPINARELLI



ART HOLZE

Glockwise from top: Masai Mara, Kenya; Thami Gampa, Khumbu, Nepal; trekkers, Nepal; Swayambunath Temple, Kathmandu, Nepal; Antigua market, Guatemala.

Himalayan Traverse—Zaskar and Ladakh, India—July 10–August 11

This is one of the finest treks it is possible to make, taking us north from Kulu across the ranges of the great Himalaya to Lamayuru and Leh. Though politically part of India, the high, arid, crystalline landscape and Buddhist culture of the inhabitants make this region an extension of western Tibet. It is a remote world of rugged yet gentle people, spectacularly carved peaks, hanging glaciers, and an extraordinary network of ancient monasteries—including Phuktal, "the jewel of Zaskar." Maximum elevation 16,800 feet at Shingo La. *Leader: Cheryl Parkins. Price: \$3,455 (12-15) / \$3,770 (11 or fewer); Dep: \$200. [95745]*

impact trail system, we'll be busy observing an ancient nomadic culture and exploring the vast, sparsely populated wilderness. We camp in traditional yurts, and will also visit museums and monasteries in Ulaan Baatar. For possible trip extension, see trip #95870 under "Russia." *Leader: Patrick Colgan. Price: \$2,270 (12-15) / \$2,490 (11 or fewer); Dep: \$200. [95735]*

Sagarmatha Service Trek, Nepal—June 21–July 11. Don't miss this chance to trek in the majestic Khumbu Himal, and do

something environmentally positive as well. From the Lukla airstrip we will trek to the Sherpa village of Thame, where we will work for three days with the local people installing experimental "eco-friendly" fireplace/cooking systems. Following our stay we will trek to Gokyo Peak, visit Thangboche Monastery, and take in awe-inspiring views of the world's highest mountains—Lhotse, Nuptse, Ama Dablam, Cho Oyu, and Mt. Everest. The trip begins and ends in Kathmandu. *Leader: David Horsley. Price: \$2,025 (12-15) / \$2,250 (11 or fewer); Dep: \$200. [95740]*

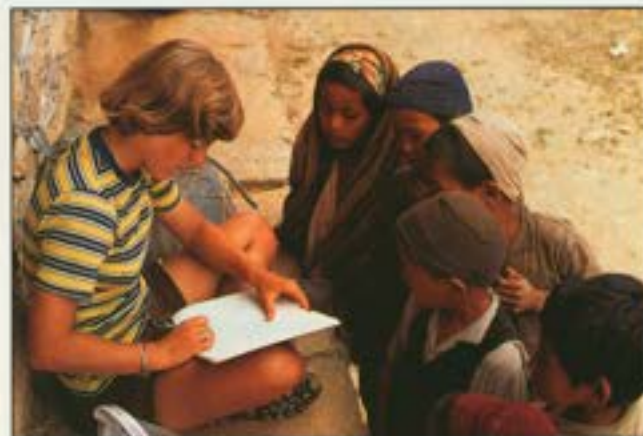


MARCO SPINARELLI

INTERNATIONAL

Trekking the Altai Mountains, Kazakhstan—August 20–September 7. From the arid plateau of Central Asia, we'll trek by the alpine lakes, flowing glaciers, and cascading streams of this mountain range, which forms the border between western China and the Central Asian Republics. We'll observe the nomadic lifestyle of the colorful

the shopping mall frenzy behind to hike beneath some of the most beautiful mountains in the entire world. On this little-known route, we will be able to get away from it all and enjoy the solitude of Himalayan wilderness. The ascent takes us through delightful Gurung villages, where terraced fields are planted with winter wheat. The



descendants of Genghis Khan as we travel through this sparsely populated land. Our journey begins and ends with excursions to the fabulous museums of Moscow and St. Petersburg. *Leader: Cahit Kitaploglu. Price: \$3,095 (12-15) / \$3,410 (11 or fewer); Dep: \$200. [95750]*

The Knot of Asia, Pakistan and China—September 16–October 10. Enjoy a comprehensive survey of Hunza and the Pamir Knot as we travel from Gilgit to Kashgar across the Khunjerab Pass, and take in a cornucopia of extreme landscapes and remote cultures. We will trek into the fabulous granite of the Hispar Glacier in the western Karakoram, then turn to the Batura Glacier in the Hindu Kush. Our honeymoon trek up the Chaprat Valley is one of the easiest and most beautiful in central Asia. *Leader: Dennis Schmit. Price: \$3,700 (12-15) / \$4,040 (11 or fewer); Dep: \$200. [95755]*

Lamjung Holiday Trek, Nepal—December 15–28. This holiday season, why not leave

watchful presences of Machhapuchhare, Annapurna IV, Annapurna II, and Lamjung Himal make this a rewarding pilgrimage to the "roof of the world." *Leader: David Horsley. Price: \$1,490 (12-15) / \$1,685 (11 or fewer); Dep: 200. [95758]*

Annapurna Discovery and Service Trek, Nepal—March 4–20, 1996. Our moderate trek begins in the fabled capital city of Kathmandu, where we'll explore fascinating temples and world-famous bazaars. Our trek then takes us into the heart of the Annapurna Sanctuary, where we'll be surrounded by 26,000-foot peaks that make up the Annapurna Massif. Nepalese guest lodges will provide us with Spartan accommodations and ample food. Our trip is planned in cooperation with the Annapurna Conservation Action Program, and we will be assisting them in cleanup efforts in the Sanctuary. Our trek will also include a visit to Pokhara and its exotic sights, including the lakeside bazaar. *Leader: John Bird. Price: \$1,845 (12-15) / \$1,880 (11 or fewer); Dep: \$200. [96500]*

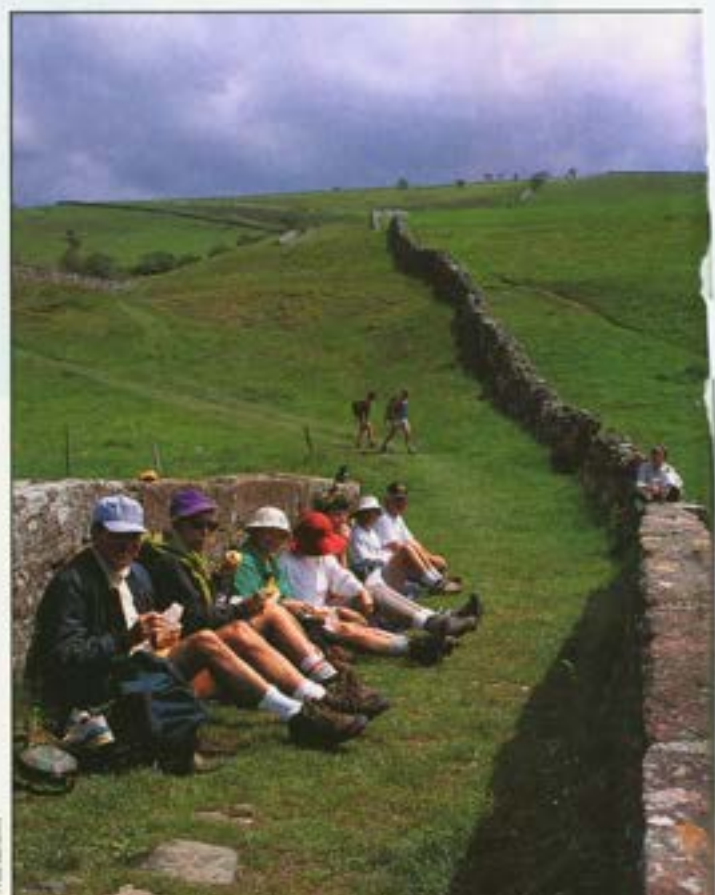
Europe

England's Coast-to-Coast Walk: From the Irish Sea to the North Sea—May 7–20. Join us on a walk across the breadth of England through three of the country's most scenic national parks—the Lake District, the Yorkshire Dales, and the North York Moors. Our moderate daily hikes will take us to the towns of Grasmere, Keld, and Robin Hood's Bay. Our luggage will be transported each day by minibus to our overnight accommodations in comfortable B&Bs, where we'll meet fellow hikers from around the world. *Leader: Lou Wilkinson. Price: \$2,660 (11-14) / \$2,960 (10 or fewer); Dep: \$200. [95760A]*

Treasures of Corfu and Northwest Greece—May 13–27. Travel to a part of Greece still wild and mountainous. Explore the archaeological wonders of Athens before flying to Corfu, an island serenely situated in the beautiful violet-blue Ionian Sea. By ferry we return to the mainland and drive to Epiros for

some of Greece's most rugged and spectacular mountains. Light to moderate hiking opportunities abound, including a trip through dramatic Vikos Gorge ("Grand Canyon of Greece"). Accommodations will be in hotels and local village establishments. *Leader: Carolyn Castleman. Price: \$2,690 (12-15) / \$2,980 (11 or fewer); Dep: \$200. [95765]*

Discover the Baltics: Lithuania, Latvia, and Estonia—May 20–June 2. Experience Baltic springtime! Lithuania, Latvia, and Estonia contain fascinating cities, still rural countrysides, and pristine beaches. Off the touristed beaten path for many years, they remain in many ways largely unchanged from a century ago. Their cultures and history differ greatly from one another, creating a potpourri of experiences for the visitor. On our specially prepared itinerary we will meet local people, enjoy cultural events, and visit sanctuaries, markets, and castles. Accommodations will be in small hotels; we'll travel by van, with many hiking and walking opportuni-



ties. *Leader: Ruth Dyche. Price: \$2,885 (10-13) / \$3,195 (9 or fewer); Dep: \$200. [95770]*

England's Coast-to-Coast Walk: From the Irish Sea to the North Sea—May 21–June 3.

See description for trip #95760 above. *Leader: Paul McKown. Price: \$2,660 (11-14) / \$2,960 (10 or fewer); Dep: \$200. [95760B]*

Walking the Waterways of England and Wales—June 4–16.

Interested in a leisurely walk in Great Britain? The charming old towpaths along the rivers and canals of the Welsh and English countryside provide remarkable scenery and unexpected isolation. We'll enjoy the rugged and beautiful landscapes of a Welsh national park; walk along a 200-year-old canal through the heart of England to towns such as Bath and Bradford-on-Avon; and learn about canal history and customs through museum visits and talks. Our walks average six miles a day on nearly flat terrain. Baggage is transported to comfortable B&Bs, and we enjoy our meals at local pubs and inns.

Leader: Lou Wilkinson. Price: \$2,535 (12-15) / \$2,835 (11 or fewer); Dep: \$200. [95780]

The Dordogne, France: History, Prehistory, Culture, and Ecology—June 18–28.

As guests of an environmental center at Sireuil near Les Eyzies, we will explore the culture and history of the fabled Dordogne region, where numerous Neanderthal skeletons were discovered in the early 1900s. We'll visit fascinating Lascaux II and other caves and dwellings containing ancient painted figures and sculptures; tour fortified villages, riverbank chateaux, farms, markets, and cottage industries by foot, canoe, and minibus; and sample fine restaurants. This leisure trip is for anyone interested in anthropology, history, photography, and environmental preservation in the south of France. *Leader: Vivian Spielbichler. Price: \$2,240 (12-15) / \$2,530 (11 or fewer); Dep: \$200. [95785]*

Norway: Hiking, Huts, Fjords, and Glaciers—July 2–15. The Jotunheimen area—"Home of

the Giants"—is comparable in its grandeur to Yosemite, with its wild mountains, 250 peaks over 6,000 feet, 60 glaciers, and hundreds of highland lakes and waterfalls. We will do moderate hikes (up to about six hours) and enjoy two layover days. Packs will be light, as food and bunks will be provided. We will boat through fjords, ride a train through the interior of Norway, and tour Oslo. *Leader: Jim Halverson. Price: \$2,565 (12-15) / \$2,860 (11 or fewer); Dep: \$200. [95790]*



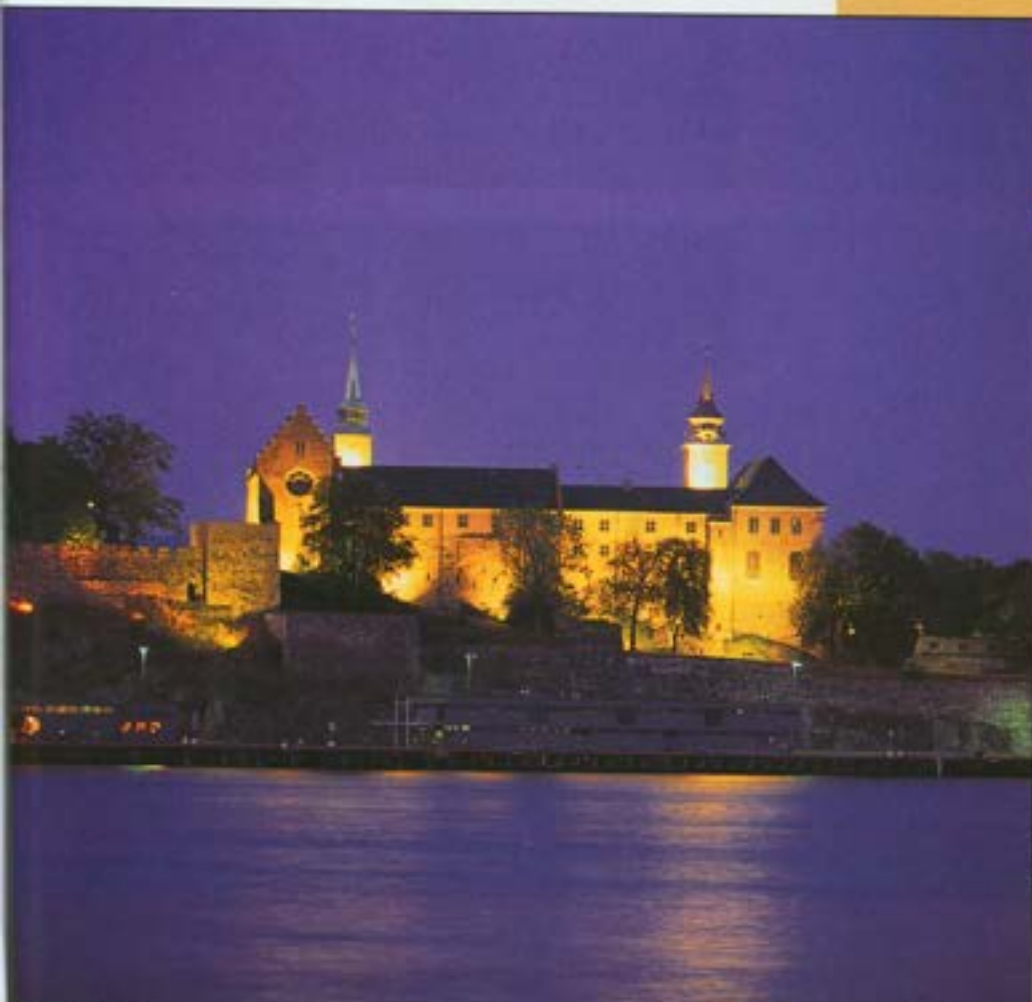
Left to right: trekker and local children in Nayang, Nepal; Coast-to-Coast walkers, Lake District, England; Oslo, Norway; Santorini, Greece; market in Arles, Provence, France.

East Greenland by Boat and by Foot—August 1–12.

There is no place on Earth like East Greenland, with its astonishing and playful labyrinth of waters. We will engage its topological intricacies by Inuit boat and by foot. From the worm fjord (Tasiilaq), we'll trek the sublime Storebror alpine corridor to the great inner fjord of Sermilik, where Tiniteqiaq boats will take us to the dungeons of Tasiilartik, the inland ice-cap, and the Peterson Fjord glacial cascades. Price includes helicopter and flights between Iceland and Greenland. *Leader: Dennis Schmitt. Price: \$3,235 (12-15) / \$3,595 (11 or fewer); Dep: \$200. [95795]*

Dolomite Peaks to Glaciers, Italy—September 4–16.

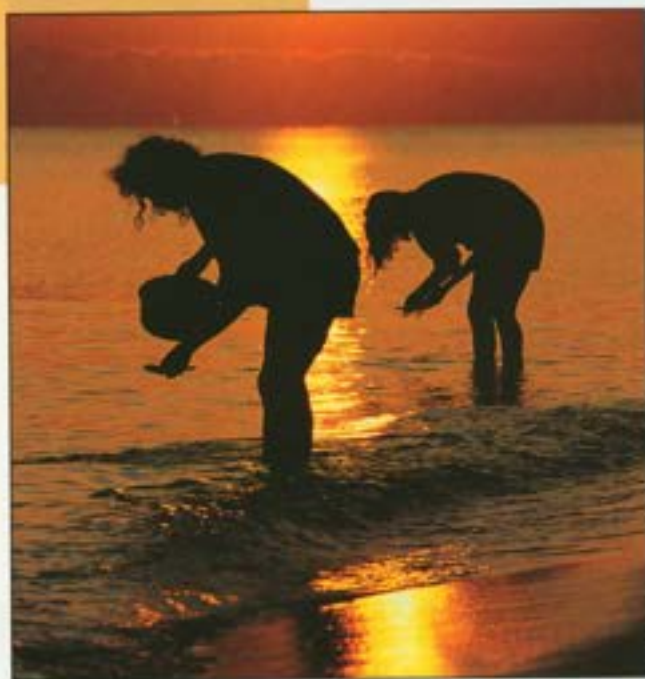
The Brenta Dolomites northwest of Trento are a compact ridge of





Above, Cotswolds Hills, England; right, Baja, Mexico; center right, Lake District, England; far right, near Candelaria Beach, Espiritu Santo Island, Baja, Mexico.

towering dolomitic pinnacles. Across the valley, in striking contrast, are glacier fields and the snow-clad granitic peaks of Adamello and Presanella. Starting from Madonna di Campiglio, we will hike in both areas. Hiking is moderate and peak-climbing optional; you'll carry only what you need for the day, and stay overnight in comfortable refuges. The weather should still be clear and fairly warm, and most of the tourists gone. Leader: Wayne R. Woodruff. Price: \$2,205 (12-15) / \$2,495 (11 or fewer); Dep: \$200. [95800]



Lightly in the Luberon, Provence, France—September 26–October 4. The Luberon range stretches south and east of Avignon, with Mediterranean views to the south and Mont Ventoux to the north. This culturally rich area offers leisurely, scenic hikes and picturesque villages ripe for exploration. Sandstone cliffs, small vineyards, colorful weekly markets, and the local French twang will delight us, while at our accommodating inn, Monsieur le chef will tantalize our taste buds with Provençal specialties. Bring hiking boots, a camera or sketch pad, and a keen appetite! Leader: Lynne Simpson. Price: \$2,165 (12-15) / \$2,445 (11 or fewer); Dep: \$200. [95805]

Greece: Mediterranean Sailing and Island Hiking—October 14–27. The azure Saronic Gulf

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PAGE 123.

will be home as we sail in and out of the coves and hidden beaches of the islands of Hydra, Paros, and Aegina. Each evening we dock our small sailboats to dine in the local tavernas and seek the spirited Greek music and dancing. No sailing skills are necessary, but participants must be willing to lend a hand for crewing tasks. Finally, by overnight steamer we travel to the mountainous, ancient island of Crete to hike the spectacular Samaria Gorge. *Leader: Carolyn Castleman. Price: \$3,300 (12-15) / \$3,590 (11 or fewer); Dep: \$200. [95810]*

Latin America

San Ignacio Lagoon Sea Kayaking, Baja California, Mexico—February 18–22.

Experience whale-watching at its best! This is the first time the Sierra Club has offered a trip to this remote, unspoiled area. The lagoon has limited access, and is perfect for hiking on deserted beaches, exploring sand dunes, photographing a variety of birds, or paddling single kayaks from our beach camp. Sign on for a peaceful and memorable adventure with comfortable accommodations — spacious tents with cots provided. *Leader: Carol Dienger. Price: \$1,680 (10-13) / \$1,770 (9 or fewer); Dep: \$200. [95820]*

Belize: Reef and Ruins—February 18–26. We'll first explore Belize's lush interior while staying at an ecology- and conservation-oriented lodge. Then, at the island city of Flores in neighboring Guatemala we'll have two full days to experience the magnificent Mayan ruins at Tikal. The remainder of our Central American adventure will be on a palm-fringed island next to a barrier reef. Here we snorkel in the crystal-clear waters of the Caribbean, learn about marine ecology and conservation, and feast on fresh seafood. *Leader: Blaine LeCheminant. Price: \$1,985 (12-15) / \$2,270 (11 or fewer); Dep: \$200. [95825]*

Patagonia: Trekking in Parque Nacional Torres del Paine, Chile—February 19–March 5.

Enjoy Chilean culture, natural splendor, and hospitality on a moderate, packer-supported trek in one of South America's most famous national parks. The imposing Paine cordillera is sandwiched between the vast windswept steppes of Patagonia and the massive continental icesheet. The majestic glaciers, frost-polished pink granite *cuernos*, and dense, lower forest house a tremendous diversity of flora and fauna, from *mogote to flandá* and the great condors. *Leader: Frances Colgan. Price: \$2,755 (12-15) / \$3,045 (11 or fewer); Dep: \$200. [95830]*

Guatemala: The Mayan Road—February 26–March 10. Join us for this exploration of Central America's most fascinating country. Starting from the charming colonial city of Antigua, we travel the Mayan Road to beautiful volcano-rimmed Lake Atitlan, the bustling Indian market at Chichicastenango, and the Cloud Forest Reserve—home of the resplendent quetzal. We'll visit the remote highland villages of present-day Mayans where traditional, handwoven clothing



ALAMY/SHUTTERSTOCK



of exquisite design and color is still worn. We'll also explore the realm of the ancient Maya amid the spectacular ruins of Tikal in northeastern Guatemala, and of Copan in nearby Honduras. *Leader: Wilbur Mills. Price: \$1,850 (8-10) / \$2,100 (7 or fewer); Dep: \$200. [95835]*

River Rafting and Rainforest Adventure, Costa Rica—April 15–22.

A natural history paradise, Costa Rica boasts unmatched biodiversity. We will view an active volcano at Poas National Park, spend two days exploring Corcovado National Park, then visit an archaeological site in the premontane forest of the Guayabo River Canyon. The highlight of our trip will be three days rafting on two beautiful tropical rivers—the Pacuare and Reventazón, where we'll relish waterfalls, rapids, and

INTERNATIONAL

inviting pools. *Leader: Bruce Macpherson. Price: \$2,195 (12-15) / \$2,485 (11 or fewer); Dep: \$200. [95840]*

Paradise Found: Galápagos Islands, Ecuador—July 8-15. Imagine the excitement of being surrounded by beautiful birds and other interesting animals that know no fear of humans—truly a paradise! We will travel in the shadow of Charles Darwin to the Galápagos archipelago, where we'll be snorkeling with fur seals, hiking through surreal laval flows, and exploring bird colonies. A full 50 per cent of the species on these enchanted



Left to right: Chichicastenango, Guatemala; Corcovado Forest, Costa Rica; sea lions, Galápagos; Milford Sound, New Zealand.



islands are found nowhere else on Earth. Our home is a luxury yacht; a naturalist guide will accompany us. *Leader: Gregg Williams. Price: \$2,980 (12-15) / \$3,270 (11 or fewer); Dep: \$200. [95845]*

Paradise Found: Galápagos Islands, Ecuador—December 16-23. See description for trip #95845 above. *Leader: Margie Tomenko. Price: \$2,980 (12-15) / \$3,270 (11 or fewer); Dep: \$200. [95850]*

Holidays in Belize—December 20-28. Join us for an exciting holiday trip to Central America. We will begin our adventure by exploring Belize's lush interior, including limestone caves, waterfalls, Mayan ruins, and a gentle jungle river perfect for canoeing. Then on to magnificent Mayan ruins at Tikal in Guatemala amid jungle wildlife and birds. Finally we'll travel to a palm-fringed island adjacent to the world's second-largest barrier reef. Here we'll snorkel in crystal-clear water, learn about reef ecology, and feast on seafood. *Leader: Tim Wernette. Price: \$2,405 (14-18) / \$2,680 (13 or fewer); Dep: \$200. [95855]*



Sea of Cortes Kayaking, Baja California, Mexico—December 23-29. Search out hidden inlets, beaches, and rookeries as only possible in a kayak. Paddle, swim, or snorkel in the emerald-green waters of one of the world's most abundant marine environments. The harsh Baja habitat has created unique and imposing flora. The elephant tree, giant cacti, and wild fig clinging to the dark volcanic cliffs forge a stark elegance. Novice and experienced kayakers welcome. *Leader: Harry Neal. Price: \$1,395 (12-15) / \$1,550 (11 or fewer); Dep: \$200. [95860]*

River Rafting and Rainforest Adventure, Costa Rica—December 23-31. See description for trip #95840 above. *Leader:*



trip #95735 under "Asia."
 Leader: Bud Bollock. Price:
 \$2,195 (12-15) / \$2,415 (11 or
 fewer); Dep: \$200. [95870]

**Vodlozersky Park Service Trip,
 Karelia—August 4-18.** Located
 north of St. Petersburg, Vodloz-
 ersky is Europe's largest national
 park, with vast expanses of
 virgin forests dotted by lakes.
 Base-camping on one of the two
 hundred islands in Vodlozero
 Lake, we'll share with park per-
 sonnel in trail maintenance,
 construction of campsites, and
 conservation and restoration
 work. We'll also hike in taiga
 wilderness, boat on the lake,
 appreciate the island Kizhi's
 historic Russian wooden archi-
 tecture, and visit Peter the
 Great's renowned "Window to
 the West." Leader: Cheryl Draves
 Ladyzhets. Price: \$1,975 (12-15)
 / \$2,190 (11 or fewer); Dep:
 \$200. [95875]



Pacific Basin

**Water Wonderland: New
 Zealand Sea Kayaking—Feb-
 ruary 5-25.** Escape the rigors of
 our northern winter and enjoy
 the height of New Zealand sum-
 mer! We'll sea-kayak pristine
 waters as we explore four of
 the world's finest kayaking locales.
 We begin with the Waitangi In-
 dependence Day celebrations
 at Bay of Islands in the north,
 search for penguins and seals in
 Fiordland, and end the trip at
 Stewart Island, New Zealand's
 closest point to Antarctica. This
 is a leisure trip for those with
 moderate kayaking ability.
 Leader: Ray Simpson. Price:
 \$3,540 (10-12) / \$3,860 (9 or
 fewer); Dep: \$200. [95865]

Mary O'Connor. Price: \$2,205
 (12-15) / \$2,495 (11 or fewer);
 Dep: \$200. [95862]

Russia

**Lake Baikal Service Trip,
 Southern Siberia, Russia—
 July 4-21.** On our fourth year at
 the enchanting shores of Lake
 Baikal, we will be joined by
 environmentalists and park
 personnel and cover two Russian
 national parks on our trail and
 campsite restoration program.
 Baikal, the Earth's deepest and
 most biologically significant
 body of fresh water, is threatened
 by pollution, but still houses an
 amazing array of aquatic life.
 Enjoy dayhikes on forested
 mountain trails, visit Buryat
 villages and museums, collect
 memories of homestays, camp-
 outs, shamans, and legends.
 For possible trip extension, see

**To the Shores of Baikal,
 Southern Siberia—August
 14-September 3.** Five days of
 backpacking along the eastern
 shore of Lake Baikal is the
 highlight of this trip. En route to
 Lake Baikal, we'll combine
 touring of two nature reserves
 along with travel on the BAM,
 the latest rail addition to the
 Trans-Siberian Railway. Follow-
 ing our trek along the lake we
 visit Zabaikalski National Park.
 We then spend two days in
 the Buryat center of Ulan Ude,
 prior to returning to Khabarovsk
 on the Trans-Siberian Railway.
 Leader: Bob Madsen. Price:
 \$3,010 (12-15) / \$3,300 (11 or
 fewer); Dep: \$200. [95880]

OUTING GIFT CERTIFICATE

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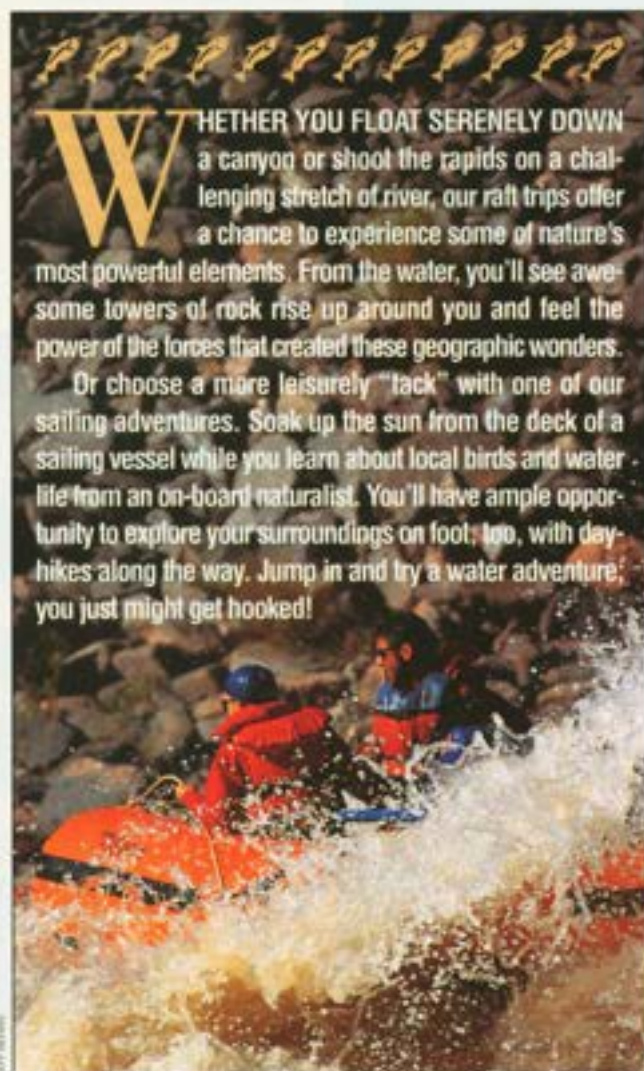
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Amount of Outing Gift Certificate: \$ _____

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RAFT/SAIL



WHETHER YOU FLOAT SERENELY DOWN a canyon or shoot the rapids on a challenging stretch of river, our raft trips offer a chance to experience some of nature's most powerful elements. From the water, you'll see awesome towers of rock rise up around you and feel the power of the forces that created these geographic wonders.

Or choose a more leisurely "tack" with one of our sailing adventures. Soak up the sun from the deck of a sailing vessel while you learn about local birds and water life from an on-board naturalist. You'll have ample opportunity to explore your surroundings on foot, too, with dayhikes along the way. Jump in and try a water adventure you just might get hooked!

Yampa River Raft, Dinosaur Monument, Utah—May 22-26. The Colorado's last undammed tributary, the Yampa roars 72 miles through the colorful canyon maze of Dinosaur National Monument. Most days we float serenely through the canyon, its 1.5 billion-year-old walls towering 2,000 feet over us while we observe bighorn sheep, eagles, and other wildlife. Late May mountain run-off provides over 40 Class III rapids, including Warm Springs

Rapid, one of the legendary "Big Drops." Minimum age eight. *Leader: Mary O'Connor. Price: \$650; Dep: \$100. [95073]*

Sailing the Queen Charlotte Islands, British Columbia, Canada—May 26-June 2. This archipelago, known as the "Canadian Galápagos," is one of the richest biological areas in North America, offering wilderness unsurpassed for cruising and exploring. Join our naturalist

aboard a luxurious 68-foot sailboat to explore old-growth forests, sea lion rookeries, and tidal pools; visit a Haida Indian village; watch for the rich variety of bird life and five species of whales; and dine in style! *Leader: Margie Tomenko. Price: \$1,795; Dep: \$200. [95074]*

Cataract Canyon Raft and Mountain Bike Adventure, Canyonlands Park, Utah—June 3-9. Ride the rim and run the river! We ride 70 miles through remote parts of Canyonlands on the White Rim Trail, then exchange gears for rafts and run the Cataract Canyon of the Colorado River. Legendary rapids such as Big Drops and Satan's Gut offer sheer challenge and excitement. Canyon history beckons us to explore the abundant petroglyphs, pictographs, natural rock spires, and arches. *Leader: Marie Cecchini. Price: \$1,095; Dep: \$200. [95275]*

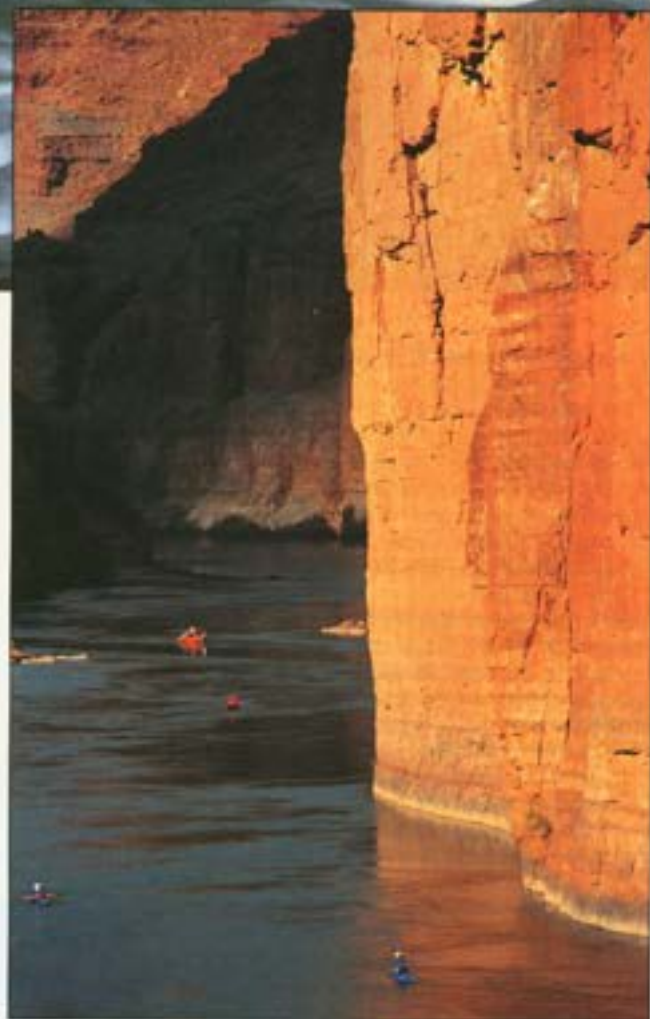
Westwater Whitewater Wilderness Weekend, Utah—June 3-4. Called "the little Grand

Canyon," Westwater Canyon of the Colorado River is for the person who wants it all in two days: world-class whitewater rafting and a beautiful wilderness canyon for hiking and camping. We'll run Class III and IV rapids including Funnel Falls, Sock-it-to-me, and the daunting Skull rapid. Minimum age eight. *Leader: Bruce Macpherson. Price: \$395; Dep: \$50. [95276]*

Cataract Canyon Whitewater Rafting and Hiking Trip—June 5-9. Nowhere on its entire course does the Colorado River descend more precipitously than through Cataract Canyon. We'll encounter 23 major rapids at high water, including the Mile Long, Ben Hurt, and legendary Big Drops (Class IV and up)! We'll travel 100 miles through Canyonlands National Park to our take-out on Lake Powell. Plenty of time for side-canyon exploration, including a dayhike through the Doll House in the Maze. Minimum age 16. *Leader: Bruce Macpherson. Price: \$795; Dep: \$100. [95277]*

Clockwise from top: Olympic Forest, Washington; Colorado River, Grand Canyon, Arizona; red clover; sailboat, British Columbia; Hermit Rapid, Colorado River, Grand Canyon.





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DAVE DOHERTY/BBN

Canyonlands Whitewater Rafting and Hiking Special—June 3–9. Do it all! Experience the best of the West at high water by combining trips #95276 and #95277 and enjoy a significant price break. *Leader: Bruce Macpherson. Price: \$1,095; Dep: \$100.*

Tatshenshini/Alsek Rafting Expedition, Alaska and British Columbia—June 25–July 3. See page 59 for details. *Leader: Bruce Macpherson. Price: \$1,950; Dep: \$200. [95113]*

Dinosaur Monument Family Adventure, Colorado—June 26–28. See page 91 for details. *Leader: Tony Strano. Price: adult \$425, child \$375; Dep: \$50. [95250]*

Rogue River Rafting Adventure, Oregon—July 2–5. This is an ideal trip for river lovers, including parents and children. Choose between rowing a 12-

foot, two-person raft, paddling an inflatable kayak, or just riding and enjoying the Rogue, a designated Wild and Scenic River. Rapids, waterfalls, being tossed in circles in Mule Creek Canyon, lush green canyons, swimming in eddies, side hikes, and campfires all await. *Leader: Jon Kangas. Price: \$600; Dep: \$100. [95278]*

Green River Leisure Trip, Desolation Canyon Historic Area, Utah—July 10–14. Camp where Butch Cassidy and the Wild Bunch did, on the tree-shaded beaches of the Green. We'll row, paddle, kayak, or swim for 80 miles through beautiful, historic Desolation and Green canyons. This is an ideal first trip or family trip; the rapids are Class III or under, the camping luxurious, the water warm, the hiking leisurely, and the scenery spectacular! Minimum age six. *Leader: Ron Pennington. Price: \$720; Dep: \$100. [95279]*

Cataract/Canyonlands/Colorado River, Canyonlands Park, Utah—July 16–21. Experience the contrast between utter tranquility and all-out adventure. Our trip begins in Stillwater Canyon and concludes in the mighty Cataract Canyon. In between, we'll encounter 23 major rapids, including Mile Long, Ben Hurt, and the legendary Big Drops! We'll travel 100 miles through Canyonlands to our take-out on Lake Powell. Plenty of time for side-canyon exploration, including dayhikes to The Maze and The Needles. Minimum age eight. *Leader: Paul Middleton. Price: \$850; Dep: \$100. [95280]*

Major Powell Canyonlands Special, Utah—July 10–21. Re-live John Wesley Powell's voyage through America's last "terra incognita" by combining trips



DAVE DOHERTY/BBN

#95279 and #95280 and enjoy a significant price break. *Price: \$1,500; Dep: \$200.*

Dinosaur Monument Family Raft Adventure, Utah—July 24–27. See page 92 for details. *Leader: Mark A. Larson. Price: adult \$550; child \$500; Dep: \$100. [95254]*

Rogue River Rafting Adventure, Oregon—August 6–9. See description for trip #95278 above. *Leader: Gary Larsen. Price: \$600; Dep: \$100. [95281]*

Talkeetna Whitewater Rafting Plus, Talkeetna Mountains, Alaska—August 7–12. See page 61 for details. *Leader: Jon Kangas. Price: \$1,595; Dep: \$200. [95126]*

Grand Canyon Oar Trip, Arizona—August 21–September 2. Without question one of the most exhilarating whitewater rivers in the world, the Colorado River through the Grand Canyon provides an unforgettable experience of a lifetime for those who travel its 225 miles by oar and paddle boat. The quiet and natural flow of our rafts will allow us to fully appreciate the character of this river and solitude of its canyons. We will stop frequently to explore the geology, flora, fauna, and side canyons often missed on commercial trips. Cost includes round-trip transportation from Flagstaff, Arizona. Minimum age is 12 (18 solo). *Leader: Blaine LeCheminant. Price: \$2,295; Dep: \$200. [95282]*

Clayoquot Sound Sailing, British Columbia, Canada—September 21–25. This delightful, five-day sailing trip will focus on beautiful and threatened Clayoquot Sound on the west side of Vancouver Island. This area contains magnificent stands of old-growth forests, abundant wildlife, and peerless sailing opportunities. Currently it is the focus of a conservation battle between conservationists and commercial interests. We will meet with area experts, hike forest trails, explore the beaches, and just relax. *Leader: Ruth Dyche. Price: \$1,350; Dep: \$200. [95283]*

SERVICE



COMBINE THE ENJOYMENT of a backcountry outing with doing something positive for the environment. Along with the work project, most service trips allow ample free time to enjoy the wilderness; some trips even include a short backpack after the work is done.

No previous work experience is required; if you are reasonably fit, sign up and we'll show you how it's done. The variety of tasks accommodates most levels of skill and stamina. Our work includes building and maintaining trails, repairing meadows, cleaning up debris, and helping archaeologists, among other worthwhile activities.

We endeavor to surprise pleasantly with the food we serve. The staff on many trips includes a cook, and many cater to vegetarians.

Fees are lower than for other trips because service trips are subsidized by the National Outing Committee and by tax-deductible donations. For information on how to contribute to the program (other than by signing up for a trip), see page 114.

All service trips should be considered moderately strenuous unless otherwise indicated.

Arizona's Superstition Wilderness—February 19–25.

50 miles east of Phoenix is the locale of this backpack, trail-repair, and general maintenance outing. Enjoy high desert sunshine while alternating work and hiking days. *Leader: Sue LaVigne. Price: \$250; Dep: \$50. [95075]*

Last Texas Frontier, Big Bend Park—March 5–11.

Conquistadors and Comanches, Texas Rangers, rustlers, and revolutionaries roamed this untamed wilderness. From our base camp we'll brush and build trails and perhaps work on historical buildings. *Leader: Harry Allan. Price: \$245; Dep: \$50. [95076]*

El Yunque, Caribbean Forest, Puerto Rico—March 7–16.

A rainforest of palms, waterfalls, and ancient dwarf trees is our setting for trail maintenance and reconstruction, rain shelter repair, and photographic surveys. Dormitory accommodations; touring on free days. *Leader: Sarah Stout. Price: \$550; Dep: \$100. [95077]*

Whale of an Outing, Maui Service Trip, Hawaii—March 19–31.

See page 94 for details on this outing. *Leader: Ray Simpson. Price: \$1,035; Dep: \$200. [95070]*

Santa Cruz Island Preserve, California—April 3–10.

Enjoy the beauty of spring while helping to maintain a nature trail on this Nature Conservancy island. We'll also work on a historic ranch and stay in cabins nearby. *Leader: Laurie-Ann Barbour. Price: \$345; Dep: \$50. [95079]*

California Coast Range, Ventana Wilderness, California—April 14–22.

Backpacking to our base camp high above the Big Sur coast, we'll have spectacular ridge line views and

great dayhiking. The dense chaparral on the Black Cone Trail awaits our pruning. *Leader: David Stern; Cook: David Waite. Price: \$275; Dep: \$50. [95080]*

Redrock Trails, Munds Mountain Wilderness, Arizona—April 16–22.

We'll base-camp in this wilderness of unexcelled beauty, amid canyons, redrock formations, and forested mountains. We'll improve an existing trail and still have ample time for dayhiking and photography. *Leaders: Pam and Jerry Meyer. Price: \$255; Dep: \$50. [95081]*

North Rim Grand Canyon, Kaibab Forest, Arizona—April 17–26.

Spring in the Grand Canyon is spectacular. We'll build a trail to an overlook in the Saddle Mountain Wilderness, then explore springs, rock art, and slot canyons by backpack on this strenuous trip. *Leader: Debbie Northcutt; Cook: David Simon. Price: \$325; Dep: \$50. [95285]*

Historic Indian Trail Restoration, Nantahala Forest, North Carolina—April 22–29.

From base camp we'll work on a trail that once connected Charleston with the historical capitol of the Cherokee Nation. We'll also enjoy bird migration, wildflowers, and never-logged Joyce Kilmer Memorial Forest. *Leaders: Otto and Vivian Spielbichler. Price: \$255; Dep: \$50. [95082]*

Shawnee Forest Backcountry Archaeology, Illinois—April 23–29.

We'll work with Forest Service archaeologists in the backcountry to survey, map, and photograph prehistoric Indian sites. Free time allows for wildflower walks, swimming, and hiking. A short backpack gets us in and out of base camp. *Leader: Jim Balsitis. Price: \$245; Dep: \$50. [95083]*

ALL SERVICE TRIPS SHOULD BE CONSIDERED MODERATELY STRENUOUS UNLESS OTHERWISE NOTED IN THE TRIP DESCRIPTION.

Spring Trail Maintenance, Buffalo River, Arkansas—April 23–29. From base camp on the Buffalo River we'll do trail maintenance and some relocation of old trails amid spring wildflowers. Enjoy Ozark hills-'n-hollers, history, and humor. Good beginners trip—no experience necessary. *Leader: Bill Riecken, Jr.; Cook: Jeanette Riecken.* Price: \$225; Dep: \$50. [95064]

Springtime Arches, Arches Park, Utah—April 23–29. The desert in bloom, highlighted by dramatic rock formations, sets the scene for this fifth spring visit. From our roadhead base camp, projects include trail work

and exotic vegetation removal. *Leader: Linda Thibodeaux.* Price: \$245; Dep: \$50. [95085]

Slickrock and Joyce Kilmer Trail Maintenance, North Carolina—April 30–May 6. Backpacking to our camp high in the Nantahala Forest, we'll improve and develop trails, and hike to Hangover Lead for sweeping Appalachian views. Joyce Kilmer Memorial Forest will offer us virgin forest and plentiful spring flowers. *Leader: Mike Verange.* Price: \$255; Dep: \$50. [95066]

Chaco Canyon Archaeology, New Mexico—May 7–13. This World Heritage Site witnessed



MARK J. HANCOCK

Top: Cuyahoga Recreation Area, Ohio; left to right: Everglades, Florida; Big Bend, Texas; mountain lion, Ventana Wilderness; Yosemite, Sierra.

the disappearance of the Anasazi around A.D. 1,200. Your appearance is requested to assist with trail maintenance, fencing, and other chores. Moderately strenuous; base-camping at



PAUL MONTAGNE

6,400 feet. *Leader: Barbara S. Gooch.* Price: \$250; Dep: \$50. [95087]

Archaeology of the Gallina Culture, Santa Fe Forest, New Mexico—May 14–20. In the canyon and piñon forest country of northern New Mexico we will base-camp, explore the area, and build trails to a cliff dwelling and pueblo of the Gallina culture (circa A.D. 1,000–1,300). *Leaders: Pam and Jerry Meyer.* Price: \$275; Dep: \$50. [95088]

Piute Primitive Wilderness, Arizona—May 21–27. Experience the solitude and natural beauty of northwestern Arizona while improving trails from our roadhead base camp amid ponderosa pine. We'll have time to explore and photograph the spectacular natural beauty of this area. *Leader: Linda Takala.* Price: \$250; Dep: \$50. [95089]

Tusayan Trails, Grand Canyon, Arizona—May 28–June 3. Enjoy views of the Grand Canyon while working on the Arizona Trail. From our base camp near Hull's Cabin, we'll have time to hike and photograph this spec-



APRIL HAYES

SERVICE

tacular and historic area. *Leader: Larry Hyde. Price: \$245; Dep: \$50. [95090]*

Capitol Reef and the Waterpocket Fold, Utah—June 4–10. Sandstone domes traversed by colorful canyons dominate this desert park in the heart of the Colorado Plateau—high contrast to surviving (and bearing!) pioneer orchards. This premier trip welcomes adventurous beginners and veterans. *Leader: Susan Estes. Price: \$240; Dep: \$50. [95286]*

Dark Canyon, Manti-La Sal Forest, Utah—June 4–11. Seldom-visited Anasazi dwellings cling to the redrock walls of wooded canyons. We'll brush and repair the trails amid sandstone pinnacles and steep side canyons. Expect hot weather. *Leader: Bill Sheppard. Cook: Louise Stahl. Price: \$275; Dep: \$50. [95287]*

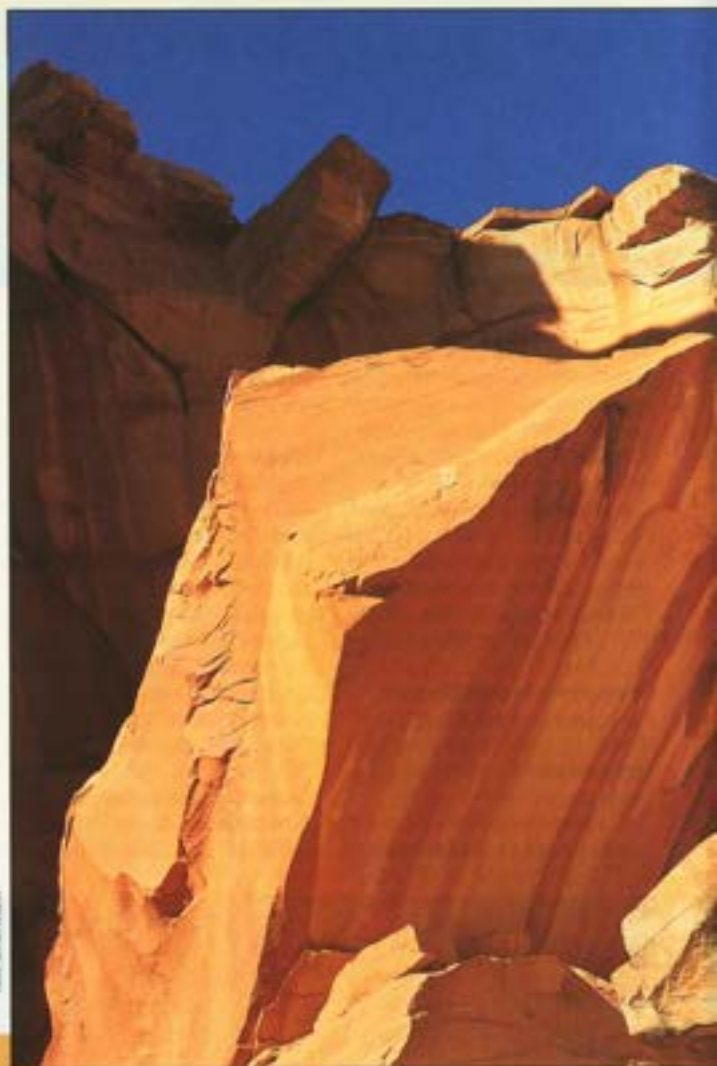
Blue Range Trail Project, Apache Forest, Arizona—June 10–17. Backpack five miles to our 9,000-foot base camp to re-

We'll work on the park's trails and carriage roads. On free days, we'll explore beautiful and varied Mt. Desert Island by bicycle, foot, and canoe. *Leader: Kathryn Bedke. Price: \$195; Dep: \$50. [95289]*

Fishing-'n'-Fencing: Bryce Canyon Through the Back Door, Utah—June 11–17. Lightweight trout lines and "devils rope" (barbed wire) mix in our high country base camp. Come for eight "rainbows" a day, fencing as far as we can go, and unlimited laughs, yamin', and memories. *Leader: Susan Estes. Price: \$240; Dep: \$50. [95290]*

Chaco Canyon Backcountry Archaeological Research, New Mexico—June 11–20. Explore the mysterious stone remnants of an ancient society as Sierra Club celebrates its eighth consecutive year of service to one of the world's preeminent archaeological sites. *Leader: Bonnie Sharpe. Price: \$290; Dep: \$50. [95291]*

Glacier Bay Park and Preserve Service Trip, Alaska—June 13–23. See page 58 for details. *Leader: Charlie Reimann. Cook: Steve Lachman. Price: \$495; Dep: \$50. [95110]*



Left, milkweed seedpods, Ohio; above, Capitol Reef National Park, Utah; right, Cottonwood Point Wilderness, Arizona.



build trail in a lush canyon. Days off we'll explore some of the rugged canyons and ridges of the Blue River area of eastern Arizona. *Leader: Pam Meyer. Price: \$240; Dep: \$50. [95288]*

Acadia Park, Maine—June 11–17. Join us for work and play in this picturesque coastal park.

Allagash Wilderness Waterway Restoration, Maine—June 17–25. Experience the beauty of this remote area by canoe while assisting waterway staff in erosion control and site restoration. Layover at spectacular Allagash Falls to explore and relax. Some canoeing experience required; rental not includ-

ed. *Leaders: Doug Palmer and Janet Evans. Price: \$370; Dep: \$50. [95292]*

Beautiful Bryce, Bryce Canyon Park, Utah—June 18–24. Spiffing up trails, planting evergreen seedlings, and some historical building preservation are the goals of this base-camp, front-country trip. Explore this splendid park through an unforgettable vacation. *Leader: Susan Estes. Price: \$240; Dep: \$50. [95293]*

Chaco Canyon, Chaco Culture Historical Park, New Mexico—June 24–July 1. On this moder-

ately strenuous trip we'll continue fencing, revegetation, and other maintenance projects against the backdrop of mysterious Anasazi ruins, located three hours northwest of Albuquerque at an altitude of 6,175 feet. *Leader: Ann Harding. Price: \$240; Dep: \$50. [95294]*

Arizona Trail Family Trip, Coconino Forest, Arizona—June 28–July 1. See page 91 for details. *Leader: Terry Esch; Cook: E. B. Dalton. Price: adult \$195; child \$130; Dep: \$50. [95251]*

Explore the Finger Lakes, New York—July 2–8. We'll explore this unique area in central New York with a variety of activities: trail improvement and relocation, hiking, bicycling, and visiting some of the many "gorge-ous" state parks. Join us! *Leader: Laurie J. Buck. Price: \$215; Dep: \$50. [95295]*

Pigeon Lake Wilderness, Adirondack Forest Preserve, New York—July 2-8. From our base camp on a beautiful lake, we'll clear trails and fix up a lean-to. Expect energizing work, good food, good fun, and afternoons for swimming or relaxing. *Leader: Richard Grayson. Price: \$215; Dep: \$50. [95296]*

Teen Service Trip, John Muir Wilderness, Sierra—July 4-14. On this trip for teens aged 13 to 17, we'll repair trails. Ample time to explore the forests and granite of the rugged Sierra and to relax together. *Leader: Debbie Northcutt. Cook: Richard Weinapple. Price: \$195; Dep: \$50. [95297]*

Women's Trip, Marble Mountain Wilderness, Klamath Forest, California—July 6-16. Camping at 5,800-foot English Lake, we'll build trail to Upper English Lake. The hike gains 3,000 feet over 13.5 miles with river crossings. Wonderful opportunities to swim, fish, and



hike. *Leader: Elaine Stebler. Cook: Lella Heading. Price: \$275; Dep: \$50. [95298]*

Cottonwood Point Wilderness, Arizona Archaeology—July 8-15. Discover and document ancient Anasazi rock art in the spectacularly beautiful Vermilion Cliffs' Cottonwood Point Wilderness area. Camp nearby under ponderosa pines. Rugged individuals with artistic skill wanted! *Leader: Marietta Tretter. Price: \$250; Dep: \$50. [95299]*

Snake River Raft and Trail Maintenance, Hells Canyon, Idaho—July 8-15. A little white-

water, a little local history, a little trail maintenance, and a lot of fun as we float and work our way down this wild and scenic river. *Leader: Christi Raunig. Cook: Bill Hallagan. Price: \$495; Dep: \$50. [95300]*

Ukonom Lake, Marble Mountain Wilderness, California—July 8-18. Hike amid ancient forests, wildflowers, lakes, and peaks. We'll camp at sub-alpine, trout-filled Ukonom Lake; rebuild trail; and have time to swim, fish, hike, and relax. *Leader: Dan Frankel. Cook: Sue Bronson. Price: \$225; Dep: \$50. [95301]*

Dark Divide, Mount St. Helens, Washington—July 10-20. We'll build trail in old-growth Douglas Fir along secluded French Creek. We'll hike to the rim of Mount St. Helens to see Spirit Lake and mounts Rainier, Adams, and Hood. *Leaders: Karen and Mark Clement. Price: \$275; Dep: \$50. [95303]*

Pioneer Mountains, Sawtooth Forest, Idaho—July 10-20. Join us in a pine- and aspen-lined meadow amid cascading canyon streams and 10,000-foot peaks. We'll improve steep trails in this proposed wilderness area an hour from Sun Valley. *Leader: Bill Glenn. Cook: Jared Baeten. Price: \$275; Dep: \$50. [95304]*

Parker Meadow, Trinity Alps, California—July 11-21. Connoisseurs of scenery, wildflower displays, and well-built causeways can experience the best. Views of Mt. Shasta and Mt. Lassen from possible day-off destinations. *Leader: Richard Garner. Cook: Pauline Seales. Price: \$275; Dep: \$50. [95305]*

Wind Rivers West, Pinedale, Wyoming—July 12-21. In the "greatest mountain range in Wyoming and arguably the lower 48 states," we'll reconstruct eroded trails. On days off we'll explore this glacial terrain of peaks, lakes, and streams. *Leaders: Pamela Meyer and Dan Christaens. Price: \$275; Dep: \$50. [95306]*

Moonshine Trail, Pike Forest, Colorado—July 12-22. Help build a new trail near Boreas Pass with views of the Continental Divide. We'll have a short hike in or car camp, but the work will be strenuous at 10,600 feet. *Leader: Jan Kettle. Price: \$275; Dep: \$50. [95307]*

Boundary Waters Canoe Area Wilderness Trail and Campsite Maintenance, Minnesota—July 16-22. We'll paddle canoes over clear wilderness lakes to our remote base camp. Each day we'll paddle to our work on

campsites and trails. After work, we'll swim, fish, or just relax. *Leader: Bill Sheppard. Price: \$370; Dep: \$50. [95308]*

Pleasant Lake, Marble Mountain Wilderness, California—July 16-26. Help rebuild the trail to this sapphire gem set in glacier-sculpted granite. We'll camp nearby and enjoy good company, satisfying work, great scenery, Dutch-oven cooking, dayhikes, swimming, and fishing. *Leader: Annelese Suter. Price: \$275; Dep: \$50. [95309]*

Ypsilon Trail Reconstruction, Rocky Mountain Park, Colorado—July 18-27. Beneath Rocky Mountain Park's Mummy Mountain, we will help reconstruct the heavily used Ypsilon Mountain Trail and explore trails and peaks in a spectacular, rugged mountain valley. *Leaders: Carmen and Bruce Johnson. Price: \$275; Dep: \$50. [95310]*

Seven Devils Mountains, Hells Canyon Wilderness, Idaho—July 18-28. Come frolic with us among the Seven Devils! Along with some rewarding work, we'll play amid craggy peaks, relax by sparkling lakes, and enjoy excellent food and companionship. *Leader: Christi Raunig. Cook: Bill Hallagan. Price: \$275; Dep: \$50. [95311]*

P A C I F I C C O A S T



This ecoregion extends from the fjords of British Columbia to the desert shores of Baja, California, encompassing the Willamette and Great Central valleys, among the world's most fertile and productive regions. The natural resources of the

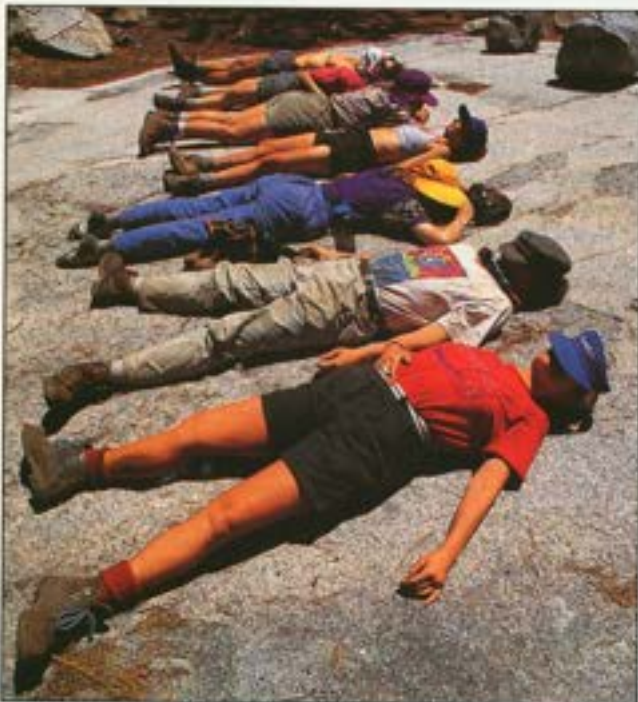
Pacific Coast have been assaulted by the pressures of population. The once vast wetlands have been reduced by 90 per cent in California and 30 per cent in Oregon, eliminating habitat for waterfowl. Once salmon came home in abundance to the Sacramento and Columbia rivers, but now their numbers have been perilously reduced by the impact of logging, agriculture, development, and pollution. Clear-cutting has reduced some of the grandest ancient forests to a few, precious, remaining areas.

The Sierra Club's agenda for the Pacific Coast ecoregion includes the permanent protection of remaining forests, establishing new wilderness areas and marine sanctuaries, protection of all remaining free-flowing rivers, and the restoration of a robust population of salmon and steelhead.

You have numerous opportunities to explore this varied region on a Sierra Club outing, from kayaking trips in Baja to a week of hiking on the Oregon coast or backpacking Northern California's Lost Coast.

SERVICE

Washakie Wilderness, Shoshone Forest, Wyoming—July 18–28. We'll hike 20 miles, work and play near 13,000-foot Franc's Peak, then leave by a different route. Views of wildflowers, wildlife, Yellowstone, the Teton Wilderness, and the Wind River Mountains. Extremely strenuous. *Leader: Conrad Smith. Cook: Gretchen Muller. Price: \$275; Dep: \$50. [95312]*

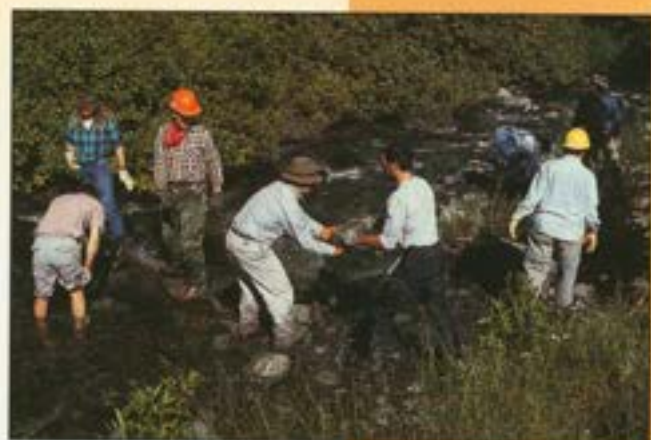


Blk Creek Basin, Lizard Head Wilderness, Colorado—July 19–29. Enjoy spectacular vistas and flowers in this 11,000-foot basin near Telluride. It's a strenuous five- to seven-mile backpack

to base camp. We'll do revegetation and build water bars. *Leader: Michel Tharp. Price: \$275; Dep: \$50. [95313]*

Algonquin Park Canoe Area, Ontario, Canada—July 20–30. Portage trails in one of the world's wildest canoeing areas need maintenance and reconstruction. Challenging days of paddling and portaging to our destination. There will be leisure time for swimming and fishing. *Leaders: Irwin Rosman and Sally Daly. Price: \$320; Dep: \$50. [95314]*

Rolling Creek, Lost Creek, Colorado—July 20–30. Clear streams, high meadows, and 12,000-foot peaks surround our base camp and the trail we'll maintain. On free days, we can



explore peaks, photograph wildlife, or relax among wildflowers. *Leader: Lynda Matusek. Price: \$275; Dep: \$50. [95315]*

St. Elias Trail Relocation, Kluane Park, Yukon Territory, Canada—July 22–29. See page 59 for details. *Leader: Judith Harper. Price: \$325; Dep: \$50. [95116]*

Dixie Forest Archaeology, Utah—July 23–29. Atop Brian Head Peak, with spectacular vistas of Cedar Breaks National Monument, we will restore a 1930s observation hut, survey a 10,000-year-old Paleo-Indian site, and have ample time for dayhiking. *Leader: Jerry Meyer. Price: \$240; Dep: \$50. [95316]*

Polaris Pass, Eagle Cap Wilderness, Oregon—July 23–August 2. Enjoy captivating views of northeast Oregon's Blue Mountains. After hiking seven miles to our 7,500-foot base camp, we'll work, explore the many lakes, and climb Eagle Cap Peak. *Leader: Randy Satchell. Cook: Dan Frankel. Price: \$275; Dep: \$50. [95317]*

Grizzly Lake, White River Forest, Aspen, Colorado—July 25–August 4. Join us for a rugged 10-mile hike over South Fork Pass to our turnpike construction project at 10,600 feet. Natural hot springs, lakes, and nearby peaks enrich leisure days. *Leader: Donna Norman. Cook: Mike Wagner. Price: \$275; Dep: \$50. [95318]*

Cloud Peak, Bighorn Forest, Wyoming—July 26–August 5. We will continue improving the trails beneath 13,174-foot Cloud

Peak. In our free time, we'll range from our 10,000-foot base camp, enjoying fishing, wildflowers, and the Bighorn Mountains. *Leader: Bart Hobson. Price: \$275; Dep: \$50. [95319]*

Sangre de Cristo, Rio Grande Forest, Colorado—July 29–August 5. We'll work on trail in this beautiful and rugged new wilderness area. We'll move camp as we work up the St. Isabel Creek Trail to St. Isabel Lake at 10,000 feet. *Leader: John Fitch. Cook: Gail Perkins. Price: \$225; Dep: \$50. [95320]*

Wind River Range, Popo Agie Wilderness, Wyoming—July 31–August 10. Spectacular lakes, peaks, wildlife. Peak-bagging and fishing on free days. A 6- to 14-mile hike to our camp; trail maintenance at 11,000 feet. Moderate-strenuous. *Leader: Frank Leslie. Cook: Jerry Turner. Price: \$275; Dep: \$50. [95321]*

Pine Creek, Inyo Forest, Sierra—August 4–14. Daytime blue skies, nighttime meteor showers...what could be better as we help restore an alpine meadow at 11,000 feet? Free days offer peak-bagging and relaxation near Plute Pass. *Leader: Dan Brady. Cook: Wanda Roach. Price: \$275; Dep: \$50. [95322]*

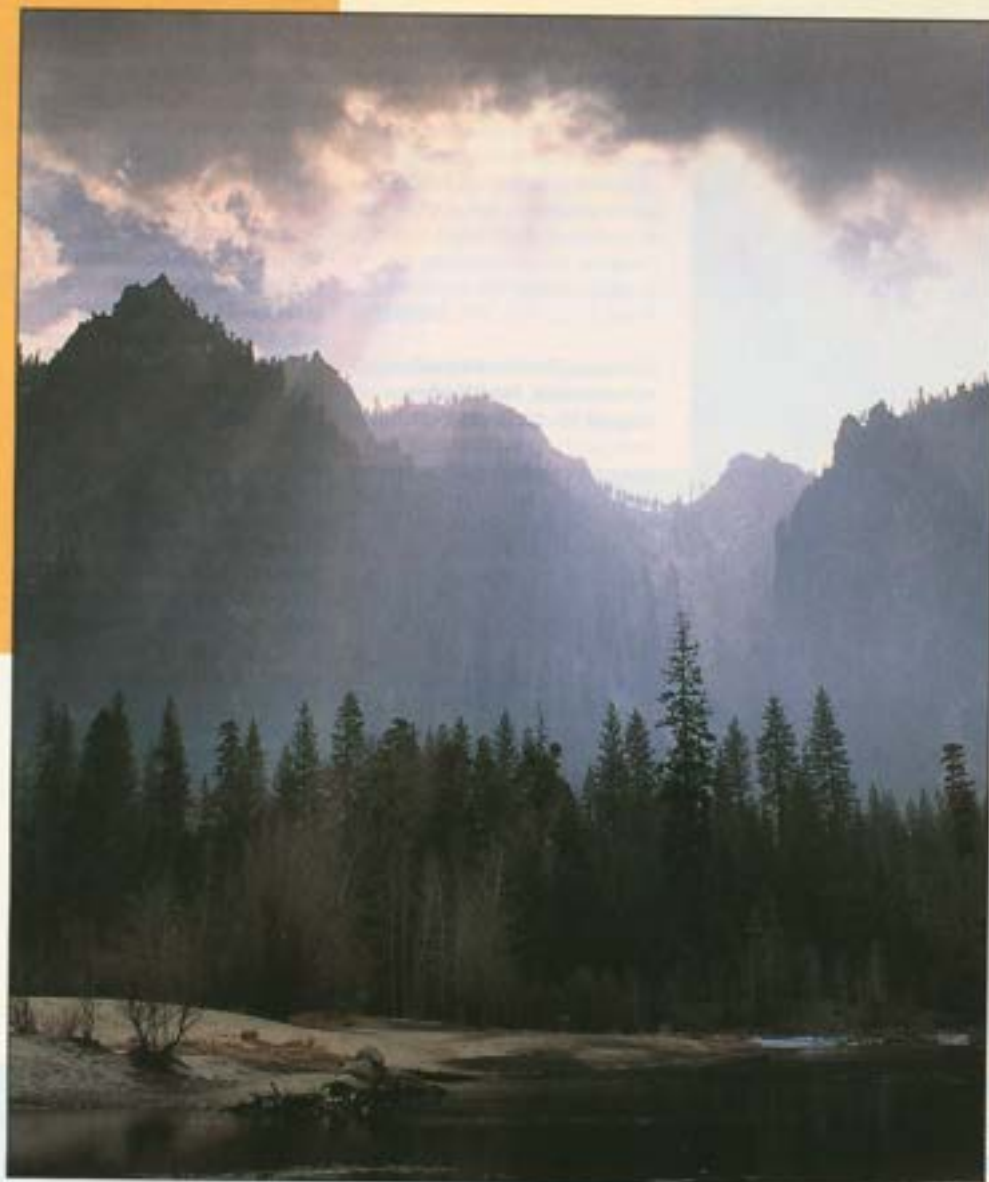
Cabinet Mountains Trail Restoration, Panhandle Forest, Idaho—August 5–15. This

DOCTORS WANTED ON SERVICE TRIPS

A small number of service trips have doctors on staff. Doctors on these trips donate their time and skills for a waiver of the trip fee.

Service trip leaders have advanced first-aid training, and each outing is equipped with a first-aid kit. Our accident record on service trips has been very good, but when trip size allows we do try to provide a staff doctor, just in case.

If you are a doctor and think you might be interested in this rewarding experience, please write: Dr. Bob Majors, 3508 Williamsborough Ct., Raleigh, NC 27609. Enclose a self-addressed, stamped envelope for reply. Space in this program is very limited, so write early!



Washington—August 8–18.

This trip is geared especially for people in their 20s. A scenic boat ride across Lake Chelan precedes our rugged, eight-mile, 4,000-foot ascent to base camp. We'll rebuild trails and enjoy spectacular views of nearby glaciers. *Leader: John Pandolfo. Price: \$275; Dep: \$50. [95328]*

Restoration Project in Yosemite Park, Sierra—August 9–20.

Join this revegetation and trail eradication project, set against the best backdrop the high Sierra has to offer! Free days offer hikes, fishing, and swimming from our base camp. *Leader: C. E. Volturn. Cook: Sue Kirkpatrick. Price: \$275; Dep: \$50. [95329]*

Beginners' Trip, Mt. Zirkel Wilderness, Colorado—

August 11–20. Beginning backpackers will enjoy working and hiking along the Continental Divide in the northern Colorado Rockies. We'll repair erosion damage to the Wyoming Trail and dayhike in elk habitat. *Leader: Richard Weinapple. Cook: Cathy Boswell. Price: \$275; Dep: \$50. [95330]*

Denali Wilderness, Alaska—

August 11–21. See page 61 for details. *Leader: Jason Star. Cook: Jasmine Star. Price: \$495; Dep: \$50. [95127]*

Boundary Waters Canoe Area Wilderness Trail and Campsite Maintenance, Minnesota—

rugged mountain wilderness of waterfalls and cedar forests is one of the best habitats for grizzly, wolverine, and other wildlife. Expect adventurous dayhikes. *Leaders: Peter Littman and Becky Blythe. Price: \$275; Dep: \$50. [95323]*

Clair Tappaan Lodge Family Trip, Tahoe Forest, Sierra—August 6–12. See page 93 for details. *Leader: TBA. Price: adult \$195; child \$130; Dep: \$50. [95259]*

Flat Rock Trail Reconstruction, Monongahela Forest, West Virginia—August 6–12. We repair trails in the spectacular Flat Rock Plains balds adjacent to the Dolly Sods Wilderness. Explore Dolly Sods, Roaring

Plains, Seneca Rocks on layover day. Beginners welcome; no experience necessary! *Leader: Jim Sconyers. Price: \$160; Dep: \$50. [95324]*

Northwest Mountain-Forest Experience, Western Cascades, Oregon—August 6–13. Our drive-in base camp at Lake Timpanogas adjoins the spectacular Willamette River headwaters. Our trail construction project in old-growth forest, starts near our camp. *Leader: Jean Aldone. Price: \$275; Dep: \$50. [95325]*

Snowmass Lake, Maroon Bells-Snowmass Wilderness, Colorado—August 6–16. We'll camp at 11,000 feet near Snowmass Peak and rebuild the Buckskin Pass Trail. Off days can

include peak-climbing, fishing, glimpses of elk and bighorn sheep, and wildflower walks. Don't miss this one! *Leader: Kathryn Hannay. Cook: Nelson Meade. Price: \$275; Dep: \$50. [95326]*

Forbidden Plateau, Strathcona Park, British Columbia—August 8–18. Experience majestic Strathcona Park, with its sub-alpine lakes, meadows, and ancient forests. We'll camp by Circlet Lake to work on revegetation, seed collection, and trail maintenance. *Leader: Sally Goldes. Cook: Roy Redford. Price: \$325; Dep: \$50. [95327]*

Twenty-Something Trip to Emerald Park, Lake Chelan, Glacier Peak Wilderness,



August 13–19. See description for trip #95308 above. *Leader: Bill Sheppard. Price: \$370; Dep: \$50. [95331]*

SERVICE



Greenland Gap Preserve, Grant County, West Virginia—August 13–19. Steep, wooded terrain and cliffs created by water erosion characterize this mountain gap. Trail-building, naturalist-led discussions, hiking and photography are all planned at this Nature Conservancy Preserve. Private-land campground. *Leader: Lynn Lafferty.* Price: \$180; Dep: \$50. [95332]

Stillwater Trail Maintenance, Adirondacks, New York—August 13–19. Good food, hard work, and a great time maintaining trails from base camp await us in the biggest loon-breeding area in the state. Work, swim, fish, canoe, bird-watch, schmooze, or relax. *Leader: Mike Kernahan.* Price: \$220; Dep: \$50. [95333]

Mystic Lake, Mt. Rainier Park, Washington—August 14–24. With Mt. Rainier as our inspiration, we'll rebuild trails on the southwest side of the park. Hikes to nearby ridges, glaciers, and meadows offer exceptional views. *Leader: Lois Grunwald.* *Cook: Susan Wilson.* Price: \$275; Dep: \$50. [95334]

Crater Lake Trail Construction, Oregon—August 19–27. Enjoy the nation's deepest lake, a

volcanic wonder, as we reroute the Pacific Crest Trail along the crater's rim. We'll drive to our remote campground. *Leader: John Albrecht.* *Cook: Carla Moreno.* Price: \$275; Dep: \$50. [95335]

Conundrum Hot Springs, Maroon Bells–Snowmass Wilderness, Colorado—August 19–29. A strenuous trip with a 10-mile backpack to a 12,000-foot base camp to repair switchbacks on a steep slope. Dutch-oven cooking; views from 14,265-foot Castle Peak, and wild times. *Leader: Doug Plicher.* Price: \$275; Dep: \$50. [95336]

High Uintas Wilderness, Wasatch and Ashley Forests, Utah—August 20–27. Within this alpine sanctuary of east-west mountains, we will build wetland bridges and maintain trail amid 26 peaks over 13,000 feet and nearly 500 lakes. Moderately strenuous; mostly vegetarian fare. *Leader: Mary Grisco.* *Cook: Paul Lavery.* Price: \$225; Dep: \$50. [95337]

Huckleberry Ridge Wilderness Restoration, Teton Wilderness, Wyoming—August 22–September 1. The beautiful Teton in bloom are the backdrop as we assist the Forest Service with

TAX-DEDUCTIBLE DONATIONS NEEDED TO SUPPORT SERVICE TRIPS

The Service Trips Program is one of the most important ways in which the Sierra Club cares for our cherished natural resources. Dedicated, hard-working trip members use their vacations to clean up rivers, rebuild trails, restore campsites, remove exotic plants, revegetate meadows, help restore archaeological sites, and take on many other projects that preserve and enhance our public lands.

Service trips are priced well below our costs to run them; the difference is made up in part by donations from individuals and corporations. Although the trip fees themselves are not tax-deductible, donations to the Service Trips Account of The Sierra Club Foundation are. The Club's need for financial support for this unique program becomes more critical each year as the demand for trips and the cost of running the program increase. Even if you can't join us in the wilderness, please join us by offering your financial support.

Your donation will be more than matched by the time and energy your fellow Club members spend to help protect and preserve our natural heritage.

Please send your tax-deductible donations to: Service Trips Account, The Sierra Club Foundation, 220 Sansome St., Suite 1100, San Francisco, CA 94104.



wilderness restoration. Work may include trail maintenance and removing a wildlife enclosure. *Leader: John Anderson. Cook: Mark Winn. Price: \$275; Dep: \$50. [95338]*

Glacier Park, Montana—August 29–September 7. From Goliath grizzly bears to Lilliputian alpine flowers, enjoy the panorama of the northern Rockies as we re-engineer trails, play, and explore the wilderness within Waterton/Glacier International Peace Park. *Leader: Neil Miller. Price: \$325; Dep: \$50. [95339]*

Isle Royale Park Trail Maintenance, Michigan—September 1–8. The land, sky, and water on this Lake Superior island wilderness make a splendid backdrop to our project. Free time allows for exploring rugged ridges, expansive vistas, and sheltered harbors. *Leader: Jim Balsitis. Price: \$345; Dep: \$50. [95340]*

Upper Lena Lake Revegetation Trip, Olympic Park, Washington—September 5–14. Using local plant cuttings, we'll replant overused areas at a high mountain lake surrounded by lush forests. We'll watch for elk, bear, osprey, mountain goats, and may see Northern Lights. *Leader: TBA. Price: \$275; Dep: \$50. [95341]*



Chiricahua Wilderness, Coronado Forest, Arizona—September 9–16. Mild weather, elevation, and pine forest produce ideal conditions for trail work and leisure activities. The Chiricahua "islands in the sky" encompass five ecological zones and are home to coati-mundi and trogon. *Leader: Les Atkins. Price: \$225; Dep: \$50. [95342]*

Cape Cod, Massachusetts—September 10–16. Enjoy this charming vacation spot off-sea-

with spectacular views of the Canyon. After the work project we'll hike down to Deer Creek and the Colorado River. Very strenuous. *Leader: Tim Werrette. Cook: Steve Wickendon. Price: \$325; Dep: \$50. [95345]*

Ancient Walls, Hovenweep Monument, Colorado and Utah—September 17–23. Join us on the Great Sage Plain as we continue working to preserve this archaic Puebloan communi-



son, as we maintain trails or do other work for the Wellfleet Audubon Sanctuary. On free time, enjoy a guided canoe trip, hiking, biking, or exploring. *Leader: Betty M. Couss. Price: \$220; Dep: \$50. [95343]*

Sand Canyon Trail and Archaeology, San Juan Resource Area, Colorado—September 10–16. Amid 6,000-foot piñon pine a rimrock base camp is our contemporary "cliff dwelling." Engineering a non-invasive multi-use trail is our primary objective while learning special archaeological mapping techniques. *Leader: Susan Estes. Price: \$240; Dep: \$50. [95344]*

North Rim, Grand Canyon, Arizona—September 11–21. We'll continue building new trail above Tapeats Amphitheater

ty. Various work projects interspersed with time to explore the ruins and nearby canyons. *Leader: Theresa Titone. Price: \$240; Dep: \$50. [95346]*

Baxter Park Autumn Trail Maintenance, Maine—September 17–23. We'll maintain trails from base camp, and enjoy early fall colors, mountaintop views, and abundant wildlife (moose, loons, osprey). Opportunity to canoe, and climb Mt. Katahdin, Maine's highest peak. *Leader: Richard Gritman. Price: \$270; Dep: \$50. [95347]*

Sylvania Wilderness Trail and Campsite Maintenance, Upper Peninsula, Michigan—September 17–23. Fall colors will be at their peak in this rare virgin forest. We'll canoe to base camp and paddle to work each day.



Left to right: Chiricahua Monument, Arizona; Tuolumne Meadows, Yosemite; mountain phlox, Olympic Park, Washington; Isle Royale Park, Michigan.

After work, we'll swim, fish, or just relax. *Leader: Bill Sheppard. Price: \$305; Dep: \$50. [95348]*

Arches Homecoming I, Arches Park, Utah—September 24–30. In the West, hard work earns respect. Fencing three sections of backcountry boundary is our challenge to modern mountain men and wilderness women. Enthusiastic beginners are as welcome as veterans. Packer support means humor and healthy competition without hardship. *Leader: Susan Estes. Price: \$240; Dep: \$50. [95349]*

Bridges of the Spirits, Natural Bridges Monument, Utah—September 24–30. Fragile, remote, and spiritual, Natural Bridges vaults from the ancient ones to the now. Come help us protect and preserve these wonders for future generations. Beginners to veterans welcome. *Leader: Linda Thibodeaux. Price: \$240; Dep: \$50. [95350]*

Canyons of the Escalante, Utah—September 24–30. Great autumn's arrival in canyon country while camping in natural alcoves and working to reduce evidence of impact from previous visitors. Enjoy Navajo sandstone territory, natural bridges, and maybe swimming holes on this moderate trip. *Leader: Cathy Underwood. Price: \$240; Dep: \$50. [95351]*

Hawk Mountain Sanctuary, Appalachian Mountains, Pennsylvania—September 24–30. Enjoy the autumn migration of several varieties of raptors while we do various tasks for the sanctuary. During free time, hike the Appalachian Trail, or watch hawks soaring overhead. *Leader: Betty M. Coutts. Price: \$220; Dep: \$50. [95352]*



Top: Wonder Lake reflection, Denali National Park, Alaska; above, Buffalo National River, Arkansas; right, Delicate Arch, Arches National Park, Utah; upper right, canyon, southern Utah.

Arches Homecoming II, Arches Park, Utah—October 1–7. See description for trip #95349 above. *Leader: Sandra Wilson. Price: \$240; Dep: \$50. [95353]*

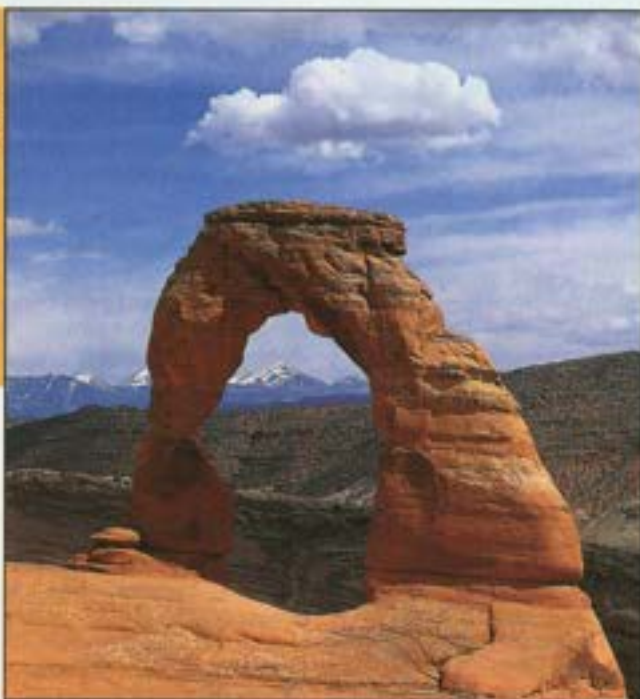
Sedona Trail Relocation, Munds Mountain Wilderness, Arizona—October 7–14. October is prime time in Sedona. From our panoramic-view base

camp, we'll alternate trail work with dayhike opportunities in magnificent Sacred Mountain/Red Rock Country. *Leader: Sanford (Sandy) Unger. Price: \$240; Dep: \$50. [95354]*

Arches Homecoming III, Arches Park, Utah—October 8–14. See description for trip #95349 above. *Leader: Mike Kobar. Price: \$240; Dep: \$50. [95355]*

Okefenokee Wildlife Refuge, Georgia—October 15–21. From base camp we'll assist Stephen Foster State Park staff right in the heart of the Refuge. On free days we can canoe, watch birds and reptiles, and visit abandoned settlements. *Leader: Marty Joyce. Price: \$185; Dep: \$50. [95356]*

Ozark Autumn, Buffalo River, Arkansas—October 15–21. Expect mild days, cool nights, and exquisite Ozark fall colors in these historically rich mountains.



We'll reroute a worn-out path "down the holler" to hidden surprises, then eradicate the old trail. *Leader: Bill Sheppard. Price: \$260; Dep: \$50. [95357]*

Santa Cruz Island Preserve, California—October 19–27. Enjoy a scenic boat ride, rustic cabins, and a pleasant Mediterranean climate. We'll work with the Nature Conservancy's biologist, play on beaches and mountains, and explore the historic ranch. *Leader: Tim Stebler. Cook: Elaine Stebler. Price: \$325; Dep: \$50. [95358]*

Santa Rosa Island, Channel Islands Park, California—October 20–27. A four-hour boat ride takes us to Santa Rosa Island off the southern California coast. We'll restore the wilderness, see ocean and land flora and fauna, and enjoy solitude. *Leader: Janie Grussing. Price: \$325; Dep: \$50. [95359]*



Arizona Trail, Tonto Forest, Arizona—October 28–November 4. The Old West lives on in these high desert mountains and canyons. Enjoy trail work from a base camp and leisurely dayhikes. Warm days are followed by cool, stary nights with a coyote lullaby. *Leader: Wil Passow. Price: \$185; Dep: \$50. [95360]*

High Water Trail #20, Mazatzal Wilderness, Tonto Forest, Arizona—October 28–November 4. We'll hike in to our 2,300-foot base camp at Canyon Creek, then maintain a neglected trail that parallels the Wild and Scenic Verde River. There are numerous archaeological sites in the area. *Leader: Jim Vaaler. Price: \$240; Dep: \$50. [95361]*

Tidal Zone to Sand Dunes, Munyon Island Wetlands Restoration, Florida—November 4–11. Help restore marine wetlands and coastal hammocks in Lake Worth Estuary on the Intercoastal Waterway. On days off, visit Palm Beach, canoe the wild Loxahatchee River, observe wildlife, or beach it! *Leaders: Vivian and Otto Speibichler. Price: \$185; Dep: \$50. [95362]*

IMPORTANT INFORMATION ON SIERRA CLUB OUTINGS

Ways to Apply

1. Mail check, money order, or credit card information to:
Sierra Club Outing Dept.
Dept. #05618
San Francisco, CA 94139
**Do not send Express Mail applications to this address.
Doing so will delay your application!*
2. FAX (credit card reservations only):
415-923-0636
3. Call (credit card reservations only):
415-923-5588
4. Express Mail or Federal Express (check, money order,
or credit card):
Sierra Club Outing Dept.
730 Polk St.
San Francisco, CA 94109

1. All reservations are subject to the reservation/cancellation policy of the Outing Committee; leader approval is required for all outings. Cancellation fees apply unless you are waitlisted at time of cancellation.
2. A signed liability release is required for all international trip participants.
3. All participants age 12 and over must be Sierra Club members to attend an outing.
4. Your address may be released to other trip participants for purposes of ride-sharing or other trip-related purposes.
5. Not all trips can accommodate special dietary needs or preferences. Contact the leader for this information before applying.
6. Applications for trip space will be accepted in the order they are received.

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OUTING RESERVATION FORM

Please read important policy information on reverse.

MEMBERSHIP NUMBER		TRIP NUMBER		TRIP NAME		DEPARTURE DATE		
YOUR NAME				HAVE YOU RECEIVED THE DETAILED TRIP BROCHURE? YES <input type="checkbox"/> NO <input type="checkbox"/>				
STREET ADDRESS				YOUR HOME PHONE ()				
CITY		STATE		ZIP		YOUR WORK PHONE ()		
PLEASE PRINT YOUR NAME AND THE NAMES OF OTHER PEOPLE IN YOUR PARTY			MEMBERSHIP NUMBER	AGE	RELATIONSHIP	NUMBER OF OUTINGS YOU'VE BEEN ON		YEAR OF LAST NATIONAL OUTING
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PER PERSON COST OF OUTING		TOTAL COST OF THIS APPLICATION		DEPOSIT ENCLOSED		FOR OFFICE USE ONLY		

Check Money Order

Visa Mastercard

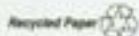
CARDHOLDER NAME _____

SIGNATURE _____

CARD NUMBER _____

EXPIRATION DATE _____

DATE _____



Enclose check, money order or credit card information and mail to: Sierra Club Outing Department, Dept # 05618, San Francisco, CA 94130

OUTING RESERVATION FORM

Please read important policy information on reverse.

MEMBERSHIP NUMBER		TRIP NUMBER		TRIP NAME		DEPARTURE DATE		
YOUR NAME				HAVE YOU RECEIVED THE DETAILED TRIP BROCHURE? YES <input type="checkbox"/> NO <input type="checkbox"/>				
STREET ADDRESS				YOUR HOME PHONE ()				
CITY		STATE		ZIP		YOUR WORK PHONE ()		
PLEASE PRINT YOUR NAME AND THE NAMES OF OTHER PEOPLE IN YOUR PARTY			MEMBERSHIP NUMBER	AGE	RELATIONSHIP	NUMBER OF OUTINGS YOU'VE BEEN ON		YEAR OF LAST NATIONAL OUTING
1					SELF	CHAPTER	NATIONAL	
2								
3								
4								
PER PERSON COST OF OUTING		TOTAL COST OF THIS APPLICATION		DEPOSIT ENCLOSED		FOR OFFICE USE ONLY		

Check Money Order

Visa Mastercard

CARDHOLDER NAME _____

SIGNATURE _____

CARD NUMBER _____

EXPIRATION DATE _____

DATE _____



Enclose check, money order or credit card information and mail to: Sierra Club Outing Department, Dept # 05618, San Francisco, CA 94130

TEAR OFF ENVELOPE HERE.
YOU MAY ENCLOSE CHECKS OR MONEY ORDERS WITH SAFETY.
(FLAP IS GUMMED.) ENCLOSE IN THIS ENVELOPE. FOLD FLAP, SEAL AND MAIL.

THIS ENVELOPE IS FOR OUTING RESERVATIONS ONLY.
PLEASE DO NOT USE FOR MEMBERSHIP FORMS.

Send membership forms separately to avoid processing delays.

PLACE
STAMP
HERE

Sierra Club Outing Dept.

Dept. #05618

San Francisco CA 94139

SKI DOGSLED & SNOWSHOE



IMAGINE YOURSELF SITTING BY THE FIREPLACE with fellow winter enthusiasts, muscles tingling and face rosy from the day's snowy adventures. Whether you want to brush up on your ski-skating or learn to telemark, you'll receive top-notch instruction catered to your individual skill level and style. Challenge yourself with difficult terrain in the Sierra backcountry; ski or snowshoe among frozen lakes in Minnesota's Boundary Waters Canoe Area (or ice-skate the lakes themselves); and come home to rustic cabins or a cozy lodge at day's end.

Or, if you really want to get away from it all, try trekking across the wilderness by dogsled, staying in yurts (rustic trailside huts) along the way. You can learn to drive the team or just enjoy the ride.

Winter trips come with a magic all their own: Northern Lights; crisp, clean air; and the welcome quiet of a snow-muffled land. So dust off your earmuffs and sign up today!

Cross-Country Skiing in Colorado—January 15–21. Our six days of skiing in the Rockies will take on Montezuma Basin, the scenic traverse of Shrine Pass, and trails from Tennessee Pass. Accommodations are in the historic towns of Georgetown and Leadville, including the Victorian Hotel Delaware. Breakfasts and lunches are included, with organized dinners an option (not included in trip fee). Moderate skiing ability is advised. Leader: Beverly Full. Price: \$725; Dep: \$100. [95427]

High Sierra Skiing I—January 29–February 3. Enjoy Nordic ski lessons and tours while staying at the Sierra Club's own Clair

Tappaan Lodge. Develop and improve cross-country skiing skills—diagonal stride, Telemarking, ski-skating, and other techniques—in an area of heavy snowfall. You'll also enjoy warm accommodations, camaraderie with Club members, good food, a hot tub, and other amenities. Your leader is a certified ski instructor. Leader: Herb Holden. Price: \$420; Dep: \$50. [95428]

Superior Ski Trails, Boundary Waters Canoe Area Wilderness, Minnesota—February 6–10. Escape to the quiet of the Northwoods snow country on groomed and tracked trails that wander through pine and birch forests, between frozen lakes,

then back to cozy cabins and home cooking. Ski in the gentle glow of lanterns, listen for distant wolf music, track a wild moose, and relax in the sauna. Snowshoeing, ice-skating, and broomball too! Leader: Faye Sitzman. Price: \$545; Dep: \$100. [95429]

Boundary Waters Sled-Dog Trek, Boundary Waters, Minnesota—February 12–15. Explore this magnificent wilderness with a sled dog musher and a team of furry friends. Travel is 15 to 20 miles per day, and accommodations are yurts along the trail. Learn to drive a team or ride along. No experience is required, only good health and a desire to partici-



Left, Palisade Glacier, John Muir Wilderness, Sierra; above, white-tail deer.

pate in the world of sled dogs. Leader: Maxine Austin. Price: \$965; Dep: \$100. [95430]

High Sierra Skiing II—February 26–March 3. See description for trip #95428 above. Leader: Herb Holden. Price: \$420; Dep: \$50. [95431]

Snowshoe/Cross-Country Ski Cabin Tour, North Kenai, Alaska—March 25–April 1. Enjoy the magic of northern lights and the solitude of early-spring Alaska! From Coopers Landing northward, we'll traverse forested slopes to reach open, level terrain and lake shores, sheltering in rugged cabins on our eight-day, 25-mile trek in the Kenai Mountains. On layover days we'll relax, day-tour, split wood for cabin stoves, and complete a few chores for the Forest Service (required to use cabins). Leader: Duane Ottens. Price: \$1,410; Dep: \$200. [95432]

Spring Cross-Country Skiing in the Sierra—April 16–21. This popular trip offers corn snow, Telemarking, Nordic downhill, and backcountry. It's all here at the Sierra Club's Clair Tappaan Lodge near Donner Pass, where the average snowfall is the highest in the Sierra Nevada. There will be daily lessons, and tours to Castle Peak, Crow's Nest, and German Ridge led by a certified ski instructor. Enjoy great food, warm accommodations, and a hot tub! Leader: Herb Holden. Price: \$420; Dep: \$50. [95433]

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95270	Grand Teton Park	7/15-7/22	Highlight	96
95312	Washakie Wilderness	7/18-7/28	Service	112
95158	Grand Teton Park	7/23-7/30	Backpack	69
95319	Bighorn Forest	7/26-8/5	Service	112
95256	Grand Teton Park	7/30-8/5	Family	92
95321	Wind River Range	7/31-8/10	Service	112
95180	Fitzpatrick Wilderness	8/6-8/14	Backpack	72
95190	Wind River Range	8/13-8/19	Backpack	74
95338	Huckleberry Ridge Wilderness	8/22-9/1	Service	114

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MORLEY FUND

Created in 1961 by the bequest of Mrs. F. H. Morley, the Morley Fund has money available to help defray the trip costs of teachers and other educators who could not otherwise afford to go on trips. If you think you might qualify, request an application from:

SIERRA CLUB OUTING DEPARTMENT
 730 Polk Street, San Francisco, CA 94109

The deadline for submitting an application is March 15.

For More Details about Outings

Each outing is described in detail in individual trip brochures. We highly recommend reading a brochure before signing up for a trip. Order brochures by mailing in this coupon. The first five brochures are free. Please enclose 50 cents apiece for extras. You can also order brochures by phone at (415) 923-5630 (24-hour voice mail), or by e-mail at national.outings@sierraclub.org. Write or phone the trip leader if any further questions remain after reading the brochure.

Name _____

Address _____

City _____ State _____ Zip _____

Please send me the following trip brochures. (Order by trip number. The first five are free; extras cost 50 cents each.)

_____ # _____ # _____ # _____ # _____

TOTAL ENCLOSED: \$ _____

Do not mail cash. Make checks payable to Sierra Club.

RESERVATION & CANCELLATION POLICY

PLEASE READ CAREFULLY

Eligibility: Our trips are open to Sierra Club members, applicants for membership, and members of organizations granting reciprocal privileges. You may include your membership application and fee with your reservation request.

Children must have their own memberships unless they are under 12 years of age. Unless otherwise specified, a person under 18 years of age may join an outing only if accompanied by a parent or responsible adult or with the consent of the leader.

Applications: One reservation form should be filled out for each trip party and should include all persons who wish to be considered as traveling together. The person listed first on the application shall be considered the primary applicant and will be the only party member to receive confirmation information, brochures, invoices, etc. Include any addresses that may be different from the primary applicant's on a separate sheet of paper.

Mail your reservation with the required per person deposit, to: Sierra Club Outing Dept., Dept. #05618, San Francisco, CA 94139. You may reserve space with your Visa or Mastercard by calling 415-923-5588. Please have the trip number and your membership number ready. You may also fax your reservation form, with credit card information, to 415-923-0636. Before you submit your application, refer to the Cancellation Chart on next page to review penalties for cancellation.

Reservations are accepted (i.e. confirmed) in the Outing Department on a first-come, first-served basis. Leader approval (based on applicant's experience, physical condition, etc.) is required for all trips. Therefore, all reservations are accepted subject to the leader's approval, for which the member must apply promptly. When a trip is full, later applicants are put on a waitlist.

NOTE: Cancellation from a trip position that has been accepted in the Outing Department will result in the loss of funds. Please read the Cancellation Chart on the next page very carefully.

Give some thought to your real preferences. Some trips are moderate, some strenuous; a few are only for highly qualified participants. Be realistic about your physical condition and the degree of challenge you enjoy.

The Sierra Club reserves the right to conduct a lottery in order to determine priority for acceptance in the event a trip is substantially oversubscribed shortly after publication.

Reservations are accepted subject to these general rules and to any specific conditions announced in the individual trip brochures.

Deposit: A deposit is required with every trip application. The amount of the deposit varies with the trip price, as follows:

Trip price per person	Deposit per person
Up to \$499	\$50 per individual
\$500 to \$999	\$100 per individual
\$1,000 and above	\$200 per individual

The deposit is applied to the trip price when the reservation is confirmed. All deposits and payments should be in U.S. dollars.

Confirmation: A reservation is held for a trip applicant, if there is space available, when the appropriate deposit has been received by the Outing Department. A written confirmation is sent to the applicant. The reservation is accepted subject to the leader's approval, as stated above. If there is no space available when the application is received, the applicant is placed on the waitlist and the deposit is held pending an opening.

When a trip applicant is placed on the waitlist, the applicant should seek immediate leader approval. When a person with a confirmed reservation cancels, the person at the head of the waitlist will automatically be moved onto the trip, subject to leader approval. The applicant will not be contacted prior to this automatic reservation-confirmation except in the three days before trip departure.

Payments: Generally, adults and children pay the same price; some exceptions for family outings are noted. You will be billed upon receipt of your application. Full payment of trip fee is due 90 days prior to trip departure. Trips listed in the "International" section require additional payment of \$300 per person six months before departure.

Please note that payments are due at the above times, regardless of your leader-approval status. If payment is not received on time, the reservation may be canceled and the deposit forfeited.

No payment (other than the required deposit) is necessary for those waitlisted. The applicant will be billed when placed on the trip.

The trip price does not include travel to and from the roadhead. However, a few trips include on-trip-transportation; check individual trip brochures for this detail. Hawaii, Alaska, and International trip prices are all exclusive of airfare to the trip starting point.

Transportation: Travel to and from the roadhead is your responsibility. To conserve resources, trip members are urged to form carpools on a shared-expense basis or to use public transportation. On North American trips, the leader will try to match riders

and drivers. On some overseas trips you may be asked to make your travel arrangements through a particular agency.

Infrequently the Sierra Club finds it necessary to cancel trips. The Club's responsibility in such instances is limited in accordance with the Trip Cancellation Policy.

Accordingly, the Sierra Club is not responsible for non-refundable airline or other tickets or payments or any similar penalties that may be incurred as a result of any trip cancellation.

Cancellations and Refunds: You must notify the Outing Department directly during working hours (weekdays 9-5; phone 415-923-5522) of cancellation from either the trip or the waitlist.

The amount of the refund is determined by the date that the notice of cancellation by a trip applicant is received at the Outing Department. The refund amount may be applied to an already-confirmed reservation on another trip.

The Cancellation Policy applies to all reservations, regardless of whether or not the leader has notified the applicant of approval.

The Outing Committee regrets that it cannot make exceptions to the Cancellation Policy for any reason, including personal emergencies. Cancellations for medical reasons are often covered by traveler's insurance, and trip applicants will receive a brochure describing this type of coverage. You can also obtain information regarding other plans from your local travel or insurance agent. We encourage you to acquire such insurance.

Trip leaders have no authority to grant or promise refunds.

Transfers: For transfers from a confirmed reservation made 14 or more days prior to the trip departure date, a transfer fee of \$50 is charged per application. Transfers made 1 to 13 days prior to the trip departure date will be treated as a cancellation, and the Cancellation Policy will apply. No transfer fee is charged if you transfer from a waitlist.

A complete transfer of funds from one confirmed reservation to another, already-held, confirmed reservation will be treated as a cancellation, and will be subject to cancellation fees.

Medical precautions: On a few trips a physician's statement of your physical fitness may be needed, and special inoculations may be required for international travel. Check with a physician regarding immunization against tetanus.

Emergency care: In case of accident, illness, or a missing trip member, the Sierra Club, through its leaders, will attempt to provide aid and arrange search and evacuation assistance when the leader determines it is necessary or desirable. Costs of specialized means of evacuation or search (helicopter, etc.) and of medical care beyond first aid are the financial responsibility of the ill or injured person. Since such costs are often great, medical and evacuation insurance is advised, as the Club does not provide this coverage for domestic trips. Participants on international outings are covered by limited medical, accident, and repatriation insurance. Professional medical assistance is not ordinarily available on such trips. Please make sure your insurance covers you in the countries involved.

The leader is in charge: At the leader's discretion, a member may be asked to leave the trip if the leader feels the person's further participation may be detrimental to the trip or to the individual.

Please don't bring these: Radios, sound equipment, firearms, and pets are not allowed on trips.

The following obligations are undertaken by trip applicants: To accurately and completely furnish any personal information requested for leader approval; to carefully review all information furnished about the requested trip, and to understand as thoroughly as possible the physical and mental demands of the trip and the risks to be encountered on the trip; to properly equip themselves for the trip in accordance with recommendations of the leader and of the Sierra Club; to respect the customs of countries visited, avoid breaking any applicable laws and to refrain from antisocial conduct during the trip; to follow environmental guidelines and regulations while on the trip in accordance with direction from the leader; and to always respect the rights and privacy of other trip members.

INTERNATIONAL TRIP TIER-PRICING

International outings are tier-priced. This means a trip's price is dependent on the number of participants. Two prices are listed for a trip, showing the signup levels associated with each.

Final billing is based on the signup level at 90 days prior to the trip departure date. If the signup level goes up sufficiently between the billing and departure dates, the lower tier price will apply, and refunds will be issued after the trip is over.

Cancellations from trips where the tier price has changed are subject to our reservation and cancellation policy. All regular cancellation fees will apply.

CANCELLATION CHART

1. All Cancellations (except those in category 2 below):

Time or event of Cancellation	Cancellation Penalty Per Person	Refund Per Person (if any)
90 or more days prior to trip departure less	\$100 or amount of deposit, whichever is cancellation penalty	Refund equals any funds paid in excess of
60-89 days prior to trip departure	Amount of deposit	As above
14-59 days prior to trip departure	20% of trip fee, but no less than the amount of deposit	As above
4-13 days prior to trip departure date, if replacement can be obtained from the waitlist	30% of trip fee, plus \$50 processing fee, but in no event more than 50% of total trip fee	As above
4-13 days prior to trip departure date, if replacement cannot be obtained from waitlist (or if there is no waitlist at the time of cancellation processing)	40% of trip fee, plus \$50 processing fee, but in no event more than 50% of total trip fee	As above
0-3 days prior to trip departure date	Trip fee	No refund
"No-show" at the roadhead, or if participant leaves during trip	Trip fee	No refund

2. The only circumstances under which no cancellation penalties apply:

Time or event of cancellation	Refund Per Person
Disapproval by leader (once leader approval information has been received by leader)	Full refund of all fees paid
Cancellation from waitlist	Full refund of all fees paid
Applicant has not been moved from the waitlist three days prior to trip departure	Full refund of all fees paid
Trip cancelled by Sierra Club	Full refund of all fees paid

Mail checks and applications (excluding those sent by express mail) to:

Sierra Club Outing Department
Dept. #05618, San Francisco, CA 94139

Mail all other correspondence (including express-mail applications) to:

Sierra Club Outing Department
730 Polk St., San Francisco, CA 94109

ONE EARTH



Sawtooth Range, Central Idaho, by Leland Howard

ONE CHANCE

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3. Campmor Complete camping and backpacking catalog features brand names at discount prices.

4. Cottonangora Trading Co., Inc. Stay warm naturally with thermals and shirts made from completely natural cottonangora. Durable and carefree!

5. Dreyfus Corporation "The Dreyfus Third Century Mutual Fund."

6. Eagle Creek A complete line of travel gear for adventure and traditional travel.

7. EcoDepositsSM at South Shore Bank. Send for information on environmental bank accounts at nation's leader in community development banking. 1-800-669-7725.

8. Gevalia Kaffe Europe's premier coffee delivered fresh from our Swedish roastery to your home. Free full-color catalog available.

9. Green Century Funds A family of no-load, environmentally responsible mutual funds designed for the environmentally conscious investor. CD rollovers, IRA transfers, and IRA consolidation.

10. Hartford York, Ltd. Outward bound? Pack a hat from our Sierra Club Headwear Collection. Free brochure.

11. Kent State University Press Publisher of art history, history, literary criticism, poetry, science fiction, and world music. Free catalog.

12. LL Bean, Inc. Free Spring catalog. Features active and casual wear,

sporting equipment, furnishings for home and camp. All 100% guaranteed. We offer toll-free telephone services.

13. Message!Check Personal checks that speak out for the Sierra Club. Printed with soy inks on recycled paper. Free catalog. 1-800-243-2565.

14. Outdoor Research makes the highest quality outdoor accessories for climbers, campers, and travelers. Free catalog.

15. Pax World is a no-load, diversified balanced mutual fund designed for those who wish to develop income and to invest in life-supportive products and services.

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19. Redfeather Design, Inc. Perfect for winter hikers, climbers, backcountry

skiers, and outdoor enthusiasts. Seven models—kids to expedition size. 1-800-525-0081.

20. Self-Realization Fellowship Free booklet, *Undreamed-of Possibilities*, describes scientific methods of meditation. Create lasting happiness and harmony in body, mind, and soul.

21. Sierra Club Gift Idea Pay tribute to the special people in your life with gifts in their honor to the Sierra Club. Help protect our environment while honoring a loved one. Free information.

22. Sierra Club Planned Giving Life-income trusts and bequests provide tax and income benefits and support Sierra Club programs.

23. Sports Alert "The Best of What's New—1993" award from *Popular Science*. Free information on the amazing new security devices for all your sports equipment.

24. SunDog Maker of packs, bags, and cases for travelers, adventurous photographers, backpackers, and water sports enthusiasts. Well-constructed and innovative. Free catalog.

25. Sun Mountain Lodge "Star Track." The finest cross-country ski resort in America. 175 km. of groomed trails. Gold-medal-winning chef. 1-800-572-0493.

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Why We Need A Smaller U.S. Population

And How We Can Achieve It

We need a smaller population in order to halt the destruction of our environment, and to create an economy that will be **sustainable** over the very long term.

We are trying to address our steadily worsening environmental problems without coming to grips with their root cause -- overpopulation.

If present immigration and fertility rates continue, our population, now over 260 million, will pass 400 million by the year 2050 -- and still be growing rapidly!

All efforts to save our environment will ultimately be futile unless we not only halt U.S. population growth, but reverse it, so that our population can eventually be stabilized at a **sustainable** level -- far lower than it is today.

The Optimum U.S. Population Size

The central issue is surely this: **At what size should we seek to stabilize U.S. population?** Unless we know in what direction we should be headed, how can we possibly devise sensible policies to get us there?

The size at which our population is eventually stabilized is supremely important because of the effect of sheer numbers of people on such vitally important national goals as a healthy environment, and a sustainable economy.

We believe these goals can best be achieved with a U.S. population in the range of 125 to 150 million, or about its size in the 1940s. This optimum size could be reached in about three to four generations if we do two things now that are well within our grasp.

How To Get There

1. **Impose restrictions on immigration** that would halt illegal immigration, and cap legal immigration at not over 100,000 per year, including all relatives, refugees and asylees. That alone would sharply slow our growth.

2. **Lower our fertility rate** (the average number of children per woman) from the present 2.0 to around 1.5 and maintain it at that level for several decades. We believe that non-coercive financial incentives will be necessary in order to reach that goal.

If almost all women had no more than two children, our fertility rate would drop to around 1.5, because many women remain childless by choice, or choose to have not more than one child. **We promote the ideal of the two-child maximum family as the social norm, because that is the key to lowering our fertility.**

Incentives to Lower Fertility

NPG proposes these incentives to motivate parents to have no more than two children:

- Eliminate the present Federal income tax exemption for dependent children born after a specified date.
- Give a Federal income tax credit **only** to those parents who have not more than two children. Those with three or more would lose the credit entirely.
- Give an annual cash grant to low income parents who pay little or no income tax, and who have no more than two children. Those with three or more children would lose the cash grant entirely.

Two Vastly Different Paths Lie Before Us

With the reductions in immigration and fertility we advocate, our nation could start **now** on the path toward a sustainable, and prosperous, population of 125 to 150 million.

Without such a program, we are almost certain to continue our mindless, headlong rush down our current path. That path is leading us straight toward catastrophic population levels that can only devastate our environment, and produce universal poverty in a crowded, polluted nation.

If you agree that we need to work toward a smaller U.S. population, we need your support. **NPG is the only organization that calls for a smaller U.S. and world population, and for specific, realistic measures to achieve those goals.**

We are a nonprofit, national membership organization established in 1972. Contributions to NPG are tax deductible to the extent the law allows. To become a member, and receive our newsletter, plus all our current and future publications, please send us your check today.

Yes, I want to become a member of NPG, and help you work towards a smaller U.S. population. I am enclosing my check for annual membership dues.

___ \$30 ___ \$50 ___ \$100 ___ Other

Name _____

Address _____

City _____ State ____ Zip _____

Mail to: Negative Population Growth, Inc.
210 The Plaza, P.O. Box 1206, Teaneck, NJ 07666

GREEN REVOLUTION

Continued from page 52

ing energy were seen as essential elements of national policy, the United States brought hundreds of new products and processes to the verge of commercial reality.

These ranged from systems to generate electricity from wind and sunlight with zero pollution to little-known devices such as fuel cells that can power everything from homes to locomotives with zero or near-zero pollution and noise, while requiring minimal space. Yet these and thousands of other born-in-the-U.S.A. environmental products were abandoned during the 1980s as the Reagan and Bush administrations, the Congress, and many state officials turned their backs on environmental

newable energy, allowing the Japanese, Germans, and others to buy companies, patents, and production licenses for pennies on the dollar. Now Japan is the world's leading producer of solar cells. The United States is second, but the nation's largest factory is owned by the German conglomerate Siemens. If its production were assigned to Germany instead of the United States, America's photovoltaic sector would drop to a level on par with those of developing nations like Brazil.

A similar fate befell fuel cells, compact and virtually silent devices that chemically convert fuel to electricity. When run on hydrogen, fuel cells produce zero pollution or, if a hydrogen "carrier" such as natural gas is used, almost zero. First developed for the space program, they still meet all of the electrical needs of NASA's space shuttles.

Environmental laws continue to fall further and further behind those of Germany, Japan, Sweden, the Netherlands, and other industrialized nations. Once the world's environmental leader, the United States is now a laggard, its political landscape hostile to those seeking to pioneer in what many regard as a new industrial revolution greening the global economy.

Germany, meanwhile, has been restructuring the technological basis of its economy to make it sustainable over the long run, leading to a profusion of new environmental products and processes spurred by the world's most aggressive protection programs. Consider, for example, the following:

- It is retrofitting all power plants. While politicians in North America were arguing about whether acid rain was real, Germany listened to its scientists and adopted rules requiring every power plant within its borders to slash the air pollutants that cause acid rain by 90 percent. By 1989 the German retrofit was complete. Today, seven years before the U.S. control program will take full effect in 2002, Germans are selling Americans and the rest of the world anti-pollution technology and know-how.

■ It is aggressively phasing out chemicals that destroy the ozone layer and cause global warming. In 1989 Germany mandated a ban by 1995—five years before the rest of the world—on chlorofluorocarbon (CFC) gases, the primary culprits in the destruction of the ozone layer that protects Earth from solar radiation. It had also committed to reducing emissions of carbon dioxide, the principal cause of global warming, by 25 percent by the year 2010. These are the swiftest and toughest phase-downs in the world, and they required German industries to respond quickly, creating new products and processes that can be marketed globally as other nations begin to follow suit.

■ It is revolutionizing the trash business. Aiming not only to reduce the volume of trash swelling landfills and

PUBLIC INSISTENCE ON RECYCLING HAS BECOME SO WIDESPREAD IN GERMANY THAT THE AMOUNT OF RECYCLED PLASTIC ROCKETED FROM 41,000 TONS IN 1992 TO TEN TIMES THAT AMOUNT A YEAR LATER.

protection, orphaning technologies that now stand to generate billions, perhaps trillions, of dollars for their new proponents.

Solar photovoltaics, for example, were originally developed to generate electricity for space satellites, then modified for ground-based uses, making the United States the world's leading producer. But when Ronald Reagan took office, he slashed federal funding for the program from more than \$150 million to zero. Then he rejected the "energy independence" policies of presidents Nixon, Ford, and Carter, substituting a "cheap oil" strategy expressly designed to increase U.S. reliance on Persian Gulf oil by driving prices down through secret negotiations with Saudi Arabia. As oil prices plummeted, they destroyed the U.S. market for solar and other forms of re-

But in the 1980s, U.S. companies such as General Electric and Englehard turned their backs on fuel-cell technology. As a result, the world's first fuel-cell assembly line was Japanese, and the first zero-polluting, fuel-cell-powered bus is Canadian. Both employ technologies that were developed with hundreds of millions of U.S. tax dollars. The governments of both Canada and Japan helped their nation's companies acquire and develop the fuel-cell technology.

The list goes on and on, and includes technologies ranging from high-efficiency light bulbs to new ways of burning coal, all developed in large part with U.S. capital, but now wholly or partially in the hands of others. In the United States, the cheap-oil strategy remains in place, energy taxes have been rejected by Congress, and envi-

STATEMENT OF OWNERSHIP

Statement required by the Act of Congress of August 24, 1912, amended by the Acts of March 3, 1933, July 2, 1946, June 11, 1960, (74STAT.208), and October 23, 1962, showing the OWNERSHIP, MANAGEMENT, AND CIRCULATION of *Sierra*, published six times yearly at 730 Polk Street, San Francisco, California 94109.

1. The names and addresses of publisher, editor, and managing editor are: Publisher: The Sierra Club, 730 Polk Street, San Francisco, California 94109; Editor-in-Chief: Jonathan F. King; Managing Editor: Marc Lecard.

2. The owner is the Sierra Club, an incorporated nonprofit membership organization, not issuing stock.

3. The known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amounts of bonds, mortgages, or other securities are: NONE.

	Avg. no. copies, 12 preceding months	Issue nearest filing date
A. Total No. Copies (net press run)	578,133	590,000
B. Paid Circulation	27,074	14,480
1. Sales through dealers and carriers, street vendors, and counter sales		
2. Mail subscription	484,144	506,160
C. Total Paid Circulation	511,218	520,640
D. Free Distribution (including samples) by mail, carrier, or other means	28,519	29,515
E. Total Distribution (sum of C & D)	539,737	550,155
F. Copies Not Distributed	2,032	1,500
1. Office use, left over, unaccounted, spoiled after printing		
2. Return from News Agents	36,364	38,345
G. Total (sum of E & F)	578,133	590,000

I certify that the statements made by me above are correct and complete.

(signed) Jonathan F. King,
Editor-in-Chief

clogging incinerators, Germany has also fostered a new industry by adopting a "take back" program that requires everything from cameras to yogurt cartons—and the scrubber sludge from which Knauf Gypsum makes wall-board—to be collected by manufacturers and recycled. The program was so fabulously successful that the volume of trash quickly outstripped the nation's recycling capacity, thus creating even further pressure for industry to minimize packaging and other waste. Although the program was originally meant to include cars as well, German manufacturers staved off formal government action by agreeing to mount voluntary take-back programs, thus starting a global movement among car makers to develop vehicles that can be recycled. Some are already rolling off the assembly line with bar-coded parts and instructions for dismantling an auto in 20 minutes.

Like most of Germany's environmental laws, the take-back rule imposes explicit, numeric requirements: as of this year, 90 percent of all discarded glass and metals must be recycled, as well as 80 percent of all paper, board, plastics, and laminates. Incineration, even if used to generate power, has been ruled out as a solid-waste-disposal method because the burning of materials pollutes the air, especially with highly toxic dioxins and furans.

Because the take-back law sweeps virtually every form of waste into its ambit, its results were almost immediate: 400 German companies randomly surveyed less than 18 months after the law took effect on December 1, 1991, said they had completely abandoned use of polyvinyl packaging, plastic foams, and 117 other types of packaging. All but one of 146 companies had stopped using "blister" packs, which are both tough to recycle and yield dioxins when burned. One of every four companies was using packaging made at least in part from recycled materials. Companies were running full-page newspaper advertisements touting the recyclability of their products. And with good reason, as almost two-thirds of Germany's consumers shop

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for environmentally friendly products. Indeed, public insistence on recycling has become so widespread in Germany that the amount of recycled plastic rocketed from 41,000 tons in 1992 to ten times that amount a year later. Now, the nation has become a favorite testing ground for products to be marketed as environmentally safe. When in 1991, for example, Procter & Gamble introduced Vidal Sassoon "Airspray" hair spray in the United States, it did so only after testing in Germany. Similarly, two years earlier, P&G launched its "Enviro-pak" containers for laundry detergents in the United States only after testing in Germany.

Companies such as P&G have no choice but to develop such products if they wish to do business in Germany. One reason for this is the government's Blue Angel environmental labeling program. Introduced in 1977, Blue Angel is a symbol owned by Germany's environment ministry, which describes it as "a market-oriented instrument of government" that informs and motivates environmentally conscious thinking and acting among manufacturers and consumers. The ministry licenses the label's use for about 3,500 products selected on a case-by-case basis by the independent, nine-member Environmental Label Jury. The label depicts a blue figure with outstretched arms encircled by the laurel wreath of the United Nations. Inscribed in the border for each product is a brief explanation of the product's qualities, such as "low-polluting," "low-noise," or "100-percent recycled." Although there are imitators in other countries—the Green Cross of Canada, for example—Germany's Blue Angel remains far and away the most famous and successful environmental-labeling program.

In the United States, efforts to establish such a government-sponsored labeling system have foundered on industry opposition. A private effort, Green Seal, is struggling to establish itself, but is hampered by high testing costs and a lack of publicity. In Germany, however, the Blue Angel offers its bearers the prospect of winning an edge over competing brands and prod-

ucts in the environmentally conscious German marketplace. The prospect of its award—and attendant profits—has made it possible for a wide variety of environmentally friendly products ranging from low-pollution paints to mercury-free batteries to establish themselves. Public recognition of and enthusiasm for the Blue Angel program has boosted the market share of many products. For instance, before water-soluble lacquers were awarded a Blue Angel in 1981, these products commanded a meager one-percent market share. Today, 40 percent of Germany's do-it-yourself wood finishers and 20 percent of its professionals buy the less-toxic coatings. Similarly, biodegradable chainsaw lubricants are in high demand by the foresters who manage virtually every acre of Germany's woodlands. First introduced in 1987, the formula eliminates up to 7,000 tons a year of highly toxic oil otherwise absorbed by forest floors and nearby streams. After receiving a Blue Angel, these oils achieved a dominant position in the market.

Having deployed these weapons in their battle against pollution of air, water, and soil, some German officials believe they have all but exhausted the reductions that can be achieved through conventional cleanup means such as wastewater-treatment plants and scrubbers. Nevertheless, pressured by voters to cut pollution further, the government is imposing a wide range of increasingly tough requirements designed to reduce pollution by further increasing efficiency both in factories and on the highways.

Regulations now being implemented, for example, will force drivers out of gas-guzzling cars and onto energy-efficient public transit. Inner cities are being systematically closed to auto traffic, while highway, bridge, and other tolls are being raised, and long-term "green passes" for public transportation are sold in all of Germany's major cities. A Berlin green pass costs about \$40 a month, and is valid for an unlimited number of rides. A comparable pass in Washington, D.C., costs roughly twice as much. Germany also

intends to increase bicycle ridership by providing specially marked lanes on sidewalks and at intersections.

Systematically shifting people and goods in this fashion not only reduces pollution, but boosts the overall efficiency of Germany's economy by cutting transportation costs. Commuting by train, for example, slashes both fuel consumption and air pollution by up to 75 percent compared with cars, and 90 percent compared with planes. Traffic congestion and the pollution it generates, as cars creep through crowded roadways or idle at stoplights, is also cut, because trains occupy only a quarter of the road space required by buses and 1/13th that needed by cars. Because trains run on electricity generated by Germany's domestic coal, oil imports required to fuel diesel buses or gasoline cars are likewise reduced.

The nation's self-imposed target of reducing carbon dioxide emissions from the former West Germany by 25 percent and from the former East Germany by 30 percent—both by the year 2010—requires the economy to become even more efficient. One way the country intends to achieve this is to put energy that is now being wasted to some useful purpose.

In most power plants and factories, only about one-third of the energy in coal, oil, or gas is actually used. The rest escapes as waste heat. The German government has prepared regulations that will require large- and medium-size industries and utilities to market this waste energy. It can be used to heat homes and factories (or, by running CFC-free "absorption chillers," to cool them), operate paper mills and chemical plants, and even generate a few more kilowatts with super-efficient technology. Officials estimate that use of this waste heat will boost efficiency to roughly 90 percent and that air pollution—already at the world's lowest levels—will be chopped by at least half.

Because of the immense cost of bringing the former East Germany into compliance with the environmental requirements of the former West Germany, the waste-heat law has been delayed while officials turn to more

pressing needs. Work is already under way, for example, on shutting down 80 percent of the former East Germany's power plants while retrofitting the remaining facilities that generate 10,000 megawatts—that's slightly more than Thailand's entire electricity consumption—with state-of-the-art pollution controls.

The cumulative effect of all these programs is to place Germany in a commanding position as nations beset with environmental problems search for ways to reduce pollution quickly and inexpensively. Thailand, for example, decided to install scrubbers on its coal-fired power plants after a single episode of air pollution in Mae Mo District sent more than 4,000 of its citizens to doctors and hospitals. Smog-bound Mexico City has been forced to implement emissions controls on cars and factories. Taiwan is even going so far as to require catalytic converters for motorcycles. Such mandates will almost inevitably benefit Germany because, as Harvard Business School economist Michael Porter explains, "Germany has had perhaps the world's tightest regulations in stationary air-pollution control, and German companies appear to hold a wide lead in patenting—and exporting—air pollution and other environmental technologies."

In the United States, however, where environmental standards were relaxed by a succession of Reagan/Bush appointees, often in the name of competitiveness, "as much as 70 percent of the air pollution control equipment sold . . . is produced by foreign companies," according to Porter, whose 855-page study of industrial economies, *The Competitive Advantage of Nations*, examines the impact of environmental regulations on competitiveness.

Germany's actions continue to contrast sharply with those of the United States, even under President Clinton, whom most environmentalists supported as the green answer to George Bush. Germany's emissions limits on power plants and incinerators are 4 to 300 times more stringent than those of the United States. German companies

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that generate electricity from wind, solar, or other renewable forms of power are reimbursed at twice to three times U.S. levels. German recycling is mandatory, while American programs are usually voluntary where they exist at all.

Still, support for Germany's environmental initiatives is by no means unanimous. Wolfgang Hilger, for example, the chairman of Hoechst, Germany's largest chemical company, complained bitterly in 1991 that the government had lost all sense of proportion. He claimed that regulations had jeopardized 250 jobs at his company, and threatened it with a \$100-million loss. But Hilger represents a minority view. Most German citizens and businesses remain convinced both that environmental protection is essential and that the technological innovation stimulated by stringent environmental requirements will, over the long term, strengthen their national productivity and competitiveness.

Tragically, U.S. political leaders continue to embrace the outmoded and false view that the environment can be protected only at the expense of the economy, when the truth is precisely the opposite. Meanwhile, products of American genius continue to depart for Japan, Germany, and other nations, only to be sold back to U.S. industry sometime in the future. So far, the homes-from-pollution process hasn't traveled full circle back to its place of invention in the United States. But don't be surprised if sometime soon you see a piece of wallboard being nailed into a new office or a remodeled home only to find it boldly emblazoned: "Made in Germany." ■

CURTIS MOORE, a lawyer, journalist, consultant, and former counsel for the U.S. Senate Committee on Environment and Public Works, is coauthor with Alan Miller of *Green Gold: Japan, Germany, the United States, and the Race for Environmental Technology* (Beacon Press, 1994), from which portions of this article have been adapted.

► For more information, see "Resources," p. 135.

THE YAAK VALLEY

Continued from page 43

West: Jasper, Banff, Glacier, Yellowstone, and Rocky Mountain National Park. All of it.

ON A VISIT TO INDIA LAST YEAR, A FRIEND explained the Buddhist ceremonies to me—how the high priest, before each service, would grip a bell symbolizing thunder, or force, in one hand, and a *dorje*, a rattle, symbolizing lightning, or direction, in the other. He would ring the bell and shake the *dorje*, thunder and lightning, the *dorje*'s lightning giving direction and purpose to the brute power of the bell's thunder, heaven's message to the earth that we need both. For me it all came back to the symbolism of the disappearing bear and wolf in my own country, our own form of holiness: The great berry-grazing, thunderous, brute power of the grizzly, drawing his or her strength from a single mountain year-round—*sleeping in-*

side the mountain, in the winter—and the *dorje* of the wolves, traveling single-file sometimes, on the hunt, or on the move, searching—always, it seems—for a new valley where they might be safe, where they might rest, even if only for a while. Thunder and lightning.

Never mind that grizzlies once gathered in great numbers on California beaches to feast on the carcasses of washed-ashore whales, or that they roamed the deserts of Texas and Mexico, the prairies of Kansas, and the forests of Minnesota. All we are talking about right now is trying to hold on to what we've got. If grizzlies don't have cores of pristine wildness, and if they cannot move from core to core, then they're gone.

One summer day I find myself sitting barefoot in a field up in the Yaak with local conservationists Chip Clark and Jesse Sedler, and Evan Frost of the Greater Ecosystems Alliance in Bellingham, Washington. Evan has come all the way over here because he recognizes the vital location of the Yaak.

We're talking about how absolutely critical it is to have corridors; we're naming creeks in the Yaak, elk-wintering flats, grizzly-denning areas, wolf runways. We must sound like modern versions of the old trappers and mountain men who first came to this country almost 200 years ago. Like them, we're describing routes and passes; special, shining places that are a long journey away, through wild, rugged country. Evan is listing the valleys to cross, the rivers to get from here to the Pacific Northwest. It's a short list, and you're there: fresh, new genes. Meanwhile, Jesse and I are diagramming how a wandering wolf could come out of Canada, down through the Yaak, and head all the way to Mexico. *If.*

The Bull River Valley and Trout Creek country, through the Ninemile, then straight down into the Salmon/Bitterroot. A day's or two-days' journey into Yellowstone, and down to Bear Lake in northern Utah, near the Cache Valley, where a grizzly bear once leapt up out of the marsh and chased Jim



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Bridger and bit Bridger's horse in the ass. Into the high Uintas, then, where grizzlies and wolves may still be secretly holed up. Down into the Weminuche Wilderness in the San Juan Mountains of Colorado, and into New Mexico. Down the ridge of the Sangre de Cristos toward Mexico.

Except it's not quite like the old mountain men's talk must have been. We're sitting here in the late-summer sun, surrounded by cool, dark trees. Clearcuts have scarred our valley, made it unattractive to humans. Evan and Chip and Jesse are spreading out Mylar sheets on top of maps of the Yaak, computer-generated overlays that show remaining stands of old growth—*stability*—and grizzly—radio-collar telemetry locations, and polygon mapping of elk herd movements. Some of these data, put together by Jesse in his spare time on a borrowed computer, were gathered while he was cruising the valley on his old motorcycle with a busted-out headlight, like Easy Rider, dodging deer in the dusk; some are from Chip and Jesse's work measuring trees for the Forest Service.

We have more data, and less hope.

I can barely even talk about woodland caribou. They used to be all through the upper part of this valley, but now we have only one lonely bull that wanders over every few years during breeding season, sniffing the ancient scent of the soil, old migration corridors, where so many of his kind once lived.

He's sort of an embarrassment, the way he keeps hanging on. (One year he showed up on the golf course at Bonners Ferry, Idaho.) Neither the state nor the feds will list the woodland caribou as an endangered species, and I get the feeling they're all wishing he'd hurry up and die, and that another two dozen in the Idaho Panhandle would go ahead and kick the bucket too, so that the problem would just go away. The bull trout, a little-known migratory fish found in northern Montana and Idaho, is also vulnerable to habitat fragmentation. It lives in rivers or lakes, and in the fall travels as far as 160 miles upstream to spawn (when anglers and

dams will allow it). But it doesn't die after spawning, like a salmon does; it returns to its home. Some live to be as old as ten years, and as large as 25 pounds.

Some bull trout spawn every other year, while others spawn every third year, so that if there is a drought or a fire, a whole lake's population will not be lost; there'll be some survivors back in camp who didn't make the journey that year. Once they've made that great cruise up through the forest, beneath the cool cedars and across the shallows (their huge, humped backs tingling with fear, perhaps, at the knowledge of ospreys and eagles above—traveling up toward the Yaak at night, perhaps, under the moon, past otters, wolves, and bears; past coyotes, lions, lynx, and wolverines)—once they've made it up to the creek's headwaters, each female excavates a redd (spawning ground) roughly the size of a pickup bed and buries her eggs a foot and a half deep.

The eggs are fertilized; and then, beneath gold larches, red maples, and aspen-blaze, with the days growing colder, the bull trout head back downstream, coasting, to their home.

The fry are born around the first of the year, like good thoroughbreds. They don't come out of the gravel after hatching; they'll wait until spring for that. But such is their fury, their lust to enter the system, that even as immature fry they are predators.

They hang out in their river, then, for one to three years before beginning their migration down to the lake or larger river they have never seen or been to, but which is their home. These days there is an introduced species, lake trout, in those lakes, that will eat the young bull trout with a vengeance, but still the trout migrate.

Beyond lake trout, what's hurting the bull trout? Dams. Eroded soil from roadbuilding, overgrazing, and clear-cutting that washes straight into the creeks and rivers, preventing fertilization of their eggs. Even though the Yaak River is still clear, there's about a quarter inch of sediment covering the best spawning riffles. What the giant trout need is habitat protection.

There are fewer than 20 bull trout in the Yaak. One creek where they are making a last stand is a place with scabrous, lunar-gray clearcuts perched on steep slopes. Those 20 bull trout—maybe only ten or so each year—cut off by Libby Dam to the north, and by sedimentation downstream—are still moving back and forth through the autumns, as they have through the millennia—back and forth, back and forth, being big, being wild, in nature—but with the nature around them getting smaller and smaller.

I've got this theory that even though the populations in the Yaak are down, they're maybe a hundred times more important, genetically, than denser populations. For these individuals to have survived, in the face of such heavy development, they must have super-genes, survivors' genes—and should be saved at all costs. I believe their genes can save the other populations. In other words, the fish up in that creek are high-grade ore, as good as gold.

THE WOLF BIOLOGIST MIKE JIMENEZ tells of a lone, male wolf he followed in Idaho, the first known wolf in that state in a long damn time. Jimenez refers to that wolf as "a super-individual," one with survivors' genes. Hunting on his own, the wolf was bringing down adult moose, something I had not thought possible and which I don't readily understand, when deer and elk were also available.

A wolf killed in Yellowstone two years ago, the first known wolf to make it back to the park in more than 60 years, was DNA-tested and discovered to have come directly from a valley near the Yaak, Ninemile—or, if not, then from that pack's ancestors, which started out in Canada and Montana's Glacier/Pleasant Valley country, up in this dark, wooded part of the state.

The animals are not resting. If they're not resting, why should we, who claim to be bound up with them in the weave? Any good work that is going to be done must happen now, this year, these next few years. We can rest only after we make a good resting spot.

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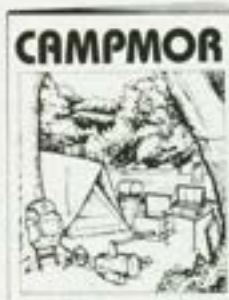
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"When despair for the world grows in me," Wendell Berry writes in his poem, *The Peace of Wild Things*,

*and I wake in the night at the least sound
in fear of what my life and my children's
lives may be,*

*I go and lie down where the wood drake
rests in his beauty on the water, and
the great heron feeds,*

*I come into the peace of wild things
who do not tax their lives with forethought
of grief. I come into the presence of still water.
And I feel above me the day-blind stars
waiting with their light. For a time
I rest in the grace of the world, and am free.*

I TAKE A HIKE UP A STEEP, TIMBERED HILL to a special spot in the Yaak. It's at the edge of one of the roadless areas that we have to save if any wilderness—any thunder and lightning—is going to survive. It's springtime, and I am in some old-growth cedars at about 5,000 feet, when I hear the sound of frogs. I have been looking for bear sign, but I move quietly toward the sound, toward a little alder-bench on the side of the mountain.

I've just read David Quammen's disturbing essay on amphibians' mysterious, worldwide demise. The cause may not be ultraviolet radiation or global warming, but something more basic: fragmentation. It's never really occurred to me before, how frogs and salamanders maintain genetic vigor. A grizzly or a wolf can always try, at least, to get up and go. But how far, really, can a frog go, over the dam's spillway, or down the sedimented creek, or across the road? It's a whole new problem to brood about.

I'm tired from hiking all day. I find the little pond where they're calling. It's not even a pond so much as a rain puddle, a snowmelt catchment, about the size of someone's living room. I've been on this mountain a hundred times, but never knew it was here, ephemeral. The frogs grow silent, even at my stealthy approach.

How long will this little high-elevation marsh last? How long do its inhabitants have to find it, lay their eggs, and then hatch? And then where do they

go? What kind of frogs *are* these? I don't even know their damn name. They're not leopard frogs, or green frogs; they're kind of funky-looking, tiny, but with big heads, as if for shoveling, burying themselves.

All any wild thing wants is a place to settle, a sanctuary with the freedom to roam if it wants or needs to. I take Berry's poem to heart; I curl up on the hillside and rest, very still, waiting for the frogs to forget about me, and to start up again. I've heard frogs singing so loudly during breeding season in southern Utah that the din made me nauseous. But when this little chorus starts back up, it's nowhere near as thunderous. This pond is not that crowded.

Earlier in the afternoon, farther back into the roadless area, I'd heard a grizzly flipping boulders just above me, looking for ants. It was right up at snowline, and the boulders were immense. I feel certain it was a grizzly. There was no way I could go higher to see, though; I was afraid it might be a sow with cubs. I turned and went back down the mountain, having heard only the music of those boulders.

Now I lie here in the spring grass like a child, listening to the frogs, and thinking about the future: thinking about grizzly music, wolf music, elk music, trout music, and frog music. I try to feel the old earth stretching beneath me, whispering, or singing.

"I listen to a concert in which so many parts are wanting," Thoreau wrote, in the springtime, in 1856. "Many of those animal migrations and other phenomena by which the Indians marked the season are no longer to be observed. . . . I take infinite pains to know all the phenomena of the spring, for instance, thinking that I have here the entire poem, and then, to my chagrin, I hear that it is but an imperfect copy that I possess and have read, that my ancestors have torn out many of the first leaves and grandest passages, and mutilated it in many places. I should not like to think that some demigod had come before me and picked out some of the best of the stars. I wish to know an entire heaven and an entire earth."

THE MUSIC OF PREDATORS AND THEIR prey: big predators and big prey are heard most easily and clearly. Yet we are learning to hear other, subtler harmonies, too, even as they grow fainter in the Rockies: the beetles and the rotting logs, the mosses and the frogs.

As blue dusk comes sliding in, I'm sitting there curled up like a child on a warm spring night, up on the mountain, a long way from home, listening to frogs. I'm on the side of the mountain that faces civilization. Two miles away, below me, there is a logging road, and someone's been cutting firewood; I just heard his saw shut off. I imagine it's already dark, down there.

I picture the woodcutter, a neighbor, sitting on a stump, resting from his day's work, mopping his brow, and also listening—hearing the silence after his saw is shut off, and then the sound of the night.

After a while I hear his truck start up, and he drives away. I watch the yellow of his headlights wind far down into the valley as he heads home, where he will sleep, and rest, that night, as will I.

We will not hear anything as we sleep, but the frogs will keep singing, the elk will keep bugling, and the wolves will keep howling, until the fire within them goes out. We are still part of their song, too, but we just are not hearing it yet.

We should not rest much longer. We should only take naps. We should listen more closely. We should save a few places, like the Yaak, that have never been saved. It's simple; it's what we've known all along. We need to put the pieces back together. ■

RICK BASS is the author of several books, including *Winter: Notes from Montana*; *The Ninemile Wolves*, and *Platte River*. This spring his story collection, *In the Loyal Mountains*, will be published by Houghton Mifflin/Seymour Lawrence. He is also working on a book about the search for Colorado grizzlies; on a novel, *Where the Sea Used to Be*; and on a letter-writing campaign urging Montana's congressional delegation to protect the Yaak wilderness.

► For more information, see "Resources," p. 135.

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Join activists working on issues that concern you. Contact the Campaign Desk, Sierra Club, 730 Polk St., San Francisco, CA 94109; (415) 776-2211.

A FIELD

"Hearth & Home," page 22

To find out what the Sierra Club is doing on rainforest issues, talk to Larry Williams at the International Program, 408 C St., NE, Washington, DC 20002; (202) 547-1141.

Two groups working to protect rainforests around the world: The Rainforest Action Network, 301 Broadway, Ste. A, San Francisco, CA 94133; and the Rainforest Alliance, 270 Lafayette St., Ste. 512, New York, NY 10012.

The Woodworkers Alliance for Rainforest Protection (WARP) is an organization of craftspeople who educate the public on rainforest issues and research alternatives to tropical hardwoods. Contact them at P.O. Box 133, Coos Bay, OR 97420; (503) 269-6907.

"Body Politics," page 23

To learn more about any possibly toxic substance in your home, contact the Agency for Toxic Substances and Disease Registry's Public Affairs Office for an information packet. The agency is located at 1600 Clifton Rd., Atlanta, GA 30333; (404) 639-0501.

The National Toxicity Program's office is at Mail Stop A0-02, National In-

stitute of Environmental Health Sciences, P.O. Box 12233, Research Triangle Park, NC 27709; (919) 541-4482.

Residents of California can get in touch with the California Health Department's Hazard Evaluation System and Information Service. This agency operates a free hotline and distributes free publications on a variety of hazardous substances. Phone (510) 540-3014 and leave a message; a trained counselor will call you back.

DEPARTMENTS

PRIORITIES

Grazing, page 28

For more information about grazing in the Stanislaus National Forest contact the Central Sierra Environmental Resource Center, P.O. Box 369, Twain Harte, CA 95383. Contact the Stanislaus National Forest Supervisor, 19777 Greenley Rd., Sonora, CA 95370, and demand an end to ecologically damaging livestock grazing.

No grazing activist should be without a copy of *How Not to Be Cowed: An Owner's Manual to Livestock Grazing on the Public Lands*, available from Sierra Club Grazing Subcommittee Chair Rose Strickland, P.O. Box 8409, Reno, NV 89507; (702) 329-6118. An August 1994 congressional report entitled *Taking From the Taxpayer: Public Subsidies for Natural Resource Development* can also help in building a case against grazing abuses on public lands. The report is available from Documents Clerk, Committee on Natural Resources, 1324 Longworth Bldg., Washington, DC 20515; (202) 225-2761.

Chlorine, page 30

EPA Administrator Carol Browner has the political authority, if not the political will, to start phasing out chlorinated chemicals. Call her at (202) 260-4700.

The Sierra Club has assembled a

packet of materials for activists interested in getting rid of chlorinated poisons. To obtain it, call Brett Hulsey at (608) 257-4994.

Greenpeace has produced a number of publications as part of its Chlorine-Free Campaign. These include Joe Thornton's *Achieving Zero Dioxin: An Emergency Strategy for Dioxin Elimination*, and *The Medium Is the Message*, a report on its campaign to persuade *Time* magazine to switch to chlorine-free paper. To order, call Greenpeace at (202) 319-2402.

CLUBWAYS

ICO, page 136

The Inner City Outings program is made possible by volunteers who give generously of their time and skills, and by donations of money and equipment from supporters. To learn how to volunteer for an ICO program in your area, contact Debra Asher, ICO Coordinator, Sierra Club, 730 Polk St., San Francisco, CA 94109. Tax-deductible contributions to the Sierra Club Foundation/Inner City Outings may be sent to the same address.

FEATURES

The Yaak Valley, page 38

To join in the campaign to save wildlands in the Rockies, send a postcard with your name and address (preferably your Sierra Club mailing label) to the Sierra Club's Northwest Office. Write to Rockies Database, Sierra Club, 1516 Melrose Ave., Seattle, WA 98122.

The Greening of Industry, page 50

Missing Links: Technology and Environmental Improvement in the Industrial World is a useful report on green technology in industrializing countries. For more information, write World Resources Institute, 1709 New York Ave., N.W., Washington, DC 20006. ■

Mark Mardon

City Kids Go Wild

Each year some 7,500 kids from housing projects and poor neighborhoods in cities across the United States get a taste of the great outdoors by taking part in the Sierra Club's Inner City Outings program. For many participants, getting away to the wilds for a weekend of camping, hiking, boating, or skiing is more than a lark—it's a desperately needed respite from the dehumanizing effects of poverty, pollution, and hopelessness.

Now in its 23rd year of operation, ICO is one of the Sierra Club's longest-running and most successful community-outreach programs. Its dedicated corps of volunteer leaders works year-round to get disadvantaged young people of diverse ethnic and cultural backgrounds out of their concrete-and-asphalt environs and into the natural world.

Many kids come to the outings program from schools, neighborhood and church youth groups, rehabilitation centers, and recreation clubs. They live in such far-flung cities as Atlanta, Ft. Lauderdale, Chicago, and Seattle. So far ICO groups have been established in 42 municipalities nationwide. All participants learn outdoor skills appropriate to their region. The outings might take place in areas just beyond city limits, or a full day's journey away, but under the tutelage of qualified ICO leaders (many of whom got their training through ICO involvement), the youngsters strap on backpacks, hike or bike, canoe and fish, pitch tents, and prepare meals. Some go on service trips to help build and maintain trails, clean up debris on beaches and along streams, and repair meadows; others

work on projects such as building bat shelters, studying pond ecology, or helping to rehabilitate injured wildlife. Most of the equipment they use—tents, skis, bikes, stoves, shovels, canoes, sleeping bags, and the like—is donated by ICO supporters and leaders.

Such activities are a world apart from most ICO kids' daily lives. Few of the 7- to 17-year-olds who join have ever set foot in the wilderness, much less spent the night there. One recent group from New Orleans—which to some extent typifies all ICO groups—included a 10-year-old girl whose home had no running water and no electricity, who had never known her father, and whose mother was addicted to crack cocaine; a 12-year-old boy whose father had repeatedly courted death by overdosing on heroin; several youths from a tough neighborhood where shootings and drug dealing are commonplace; a teenage boy who was HIV positive, and other kids who had seen one or both of their parents stricken with AIDS.

"You'd never think they come from the background they do," says Kate Mytron, founder and coordinator of the New Orleans ICO group. "They're so normal, so hungry for knowledge. They go on one canoe trip and learn the names of snakes and birds, and on the next trip they're delighted to remember them."

Perhaps the most important thing the young people get out of ICO, adds Mytron, "is a little personal power over their own lives, an opportunity to make choices—not to mention some of the things most people take for granted, like breakfast, lunch, and dinner." ■

► For more information, see "Resources," p. 135.

*Outings that open
horizons for
inner-city youngsters.*



Tracy Adams

1. First, I saw a brown branch in the muddy water by the dock.
2. Next I saw some spanish moss on a beautiful tree by some flowers, grass, mud, and some water.
3. What I like most about the weekend. I like when I went to turtle cove, because the people are very nice, loving, and kind, and that's what I like.

Your visitor,
Tracy Adams



We spent the days hiking in beautiful, sunny weather, and spotted plenty of animals: bison, longhorn steers, prairie dogs, and many deer.

Tom Madden, ICO leader
Dallas, Texas



I had to let
 You know I had a lot of fun. I never had
 this much fun in my life and I hope I can
 come back and I met a lot of friends and I had
 never been this happy before. and I hope
 we can keep up the good work. why did I write
 this letter because I really mean every
 word I am saying today Love you think
 you will not forget this day as I
 live.

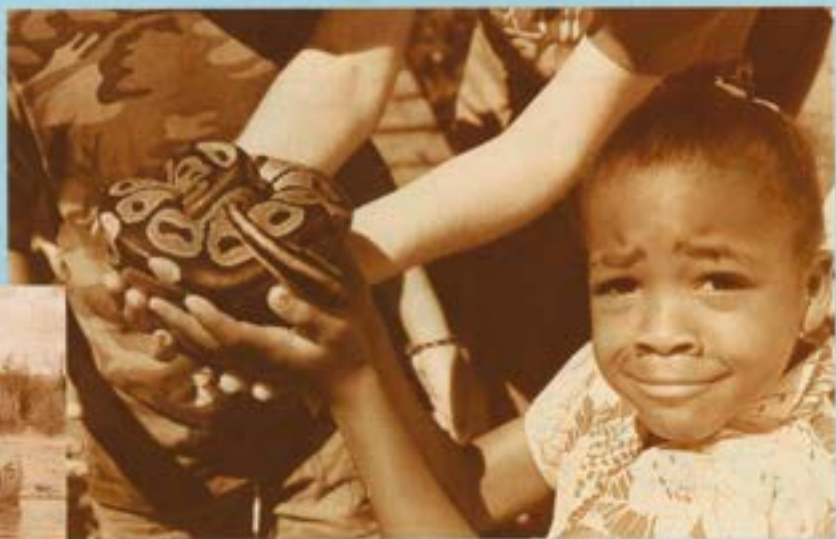
Cristine room 124

The girls loved the trek. On
 the way back to camp, they
 started an echo chant to
 keep up the hiking rhythm.

Judy Reid, ICO leader
 Tulsa, Oklahoma

Everyone got partners and
 started paddling. It was a very
 fun trip because everyone
 participated, flipping and
 jumping out of the canoes.

Lisette Dawkins, age 13,
 ICO participant, Miami, Florida



Big Apple Backyard

Rarely do hikers look to northern New Jersey to satisfy their wilderness yearnings. But within an hour's drive of Times Square is a place your pavement-pounded Vibram soles can call home—the Highlands, a 1,000-square-mile swath of forested ridges, valleys, lakes, and streams that runs from the Hudson River in New York across the top of New Jersey to the Delaware River.

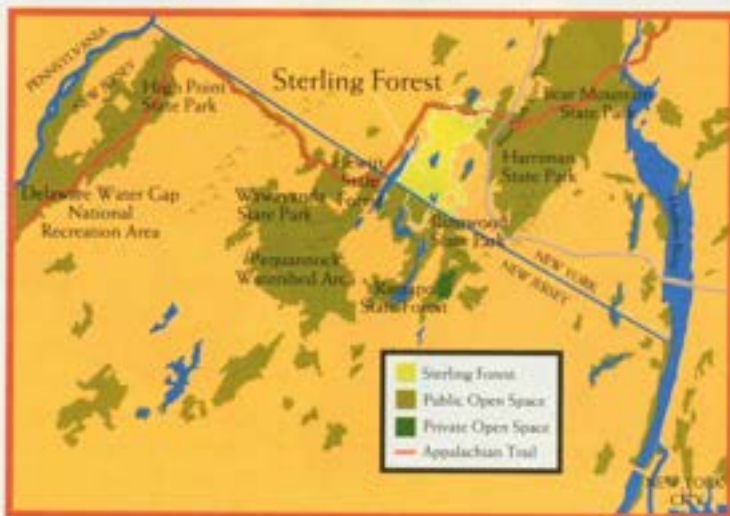
More than two dozen parks and forests dot the region, including New York's popular Harriman and Bear Mountain state parks. But few people realize that the greenbelt continues uninterrupted into the Garden State, where hiking trails wander through wildlife habitat, disappear into thick forests of hemlock, fir, and laurel, and climb to billion-year-old rock outcroppings that

offer views of a closer-than-you'd-think New York City. For the distance-oriented, a 200-mile Highlands Trail is in the works, organized by local hiking groups with the assistance of the National Park Service. All this just beyond earshot of the last power mower in the farthest cul-de-sac of the Jersey burbs.

But proximity has its price. Nowhere is this more evident than in 20,000-acre Sterling Forest, which straddles the New York/New Jersey line. Here, on the largest privately owned, undeveloped chunk of land within commuting distance of the Big Apple, bald eagles, bobcats, and black bears find themselves squaring off against bulldozers ready to clear the way for malls, condos, and office parks.

Preservation of the Sterling Forest is central to a plan by the region's con-

Though private, New York's Sterling Forest isn't entirely off-limits. One of the wildest sections of the Appalachian Trail in the state crosses it along a narrow public corridor, and the by-permit-only Sterling Ridge Trail runs the forest's length.



servationists (including the Sierra Club) to connect fragmented public lands in the Highlands to form an ecologically coherent whole. So far, the Park Service's Forest Legacy Program has appropriated \$3 million of the \$50 to \$60 million needed to purchase the property, and Passaic County has acquired the 2,000-acre New Jersey portion of the forest to protect its water sources. (The Sterling Forest watershed supplies drinking water for one out of four New Jersey residents.)

In the meantime, the Sterling Forest Corporation is plowing ahead with ambitious plans for 13,000 new housing units for 34,000 residents and 8 million square feet of commercial space just over the border in New York. Should the forest fall, the Highlands region will effectively be severed. Native wildlife will be the first to suffer, but frazzled urbanites in search of a little solitude close to the city will also find themselves without a haven. ■

NUTS & BOLTS

FOR MORE INFORMATION:

Contact the New York-New Jersey Trail Conference, whose 85 member organizations (including local Sierra Club chapters) maintain more than 1,100 miles of foot trails within two hours of New York City. The conference's guidebook titles include the *New York Walk Book*; *Appalachian Trail Guide for New York-New Jersey*, and *Circuit Hikes in Northern New Jersey*. Among its dozen map titles is *North Jersey Trails*, which provides information on public trails adjacent to Sterling Forest and details on securing a permit to hike in the currently private forest.

For readers wanting to march right into Sterling Forest conservation efforts, the Conference can supply you with all the activist information you need. Get in touch with the New York-New Jersey Trail Conference, 232 Madison Ave., New York, NY 10016; (212) 685-9699.

WHO CAN SHOW YOU AROUND:

Sierra Club New Jersey Chapter, 57 Mountain Ave., Princeton, NJ 08540;

(609) 924-3141. Sierra Club Atlantic Chapter Outings, P.O. Box 880, Planetarium Station, New York, NY 10024; (718) 370-2096. Sterling Forest Resources, 7 Spring Rock Dr., Goshen, NY 10924; (914) 294-3098.

WHOM TO BADGER:

At Sierra's presstime, a New Jersey state bill to provide up to \$10 million for Sterling Forest acquisition was waiting for the governor's signature. That funding source, however, is contingent on matching funds from New York State. On Capitol Hill, federal legislation that would have provided \$17.5 million for the Sterling Forest was another victim of the logjammed 103rd Congress, but sponsors of last year's bill have promised to introduce a new version early in 1995. Write to your U.S. senators and representative, urging them to support Sterling Forest funding this year. New York residents should also write to Governor Pataki and their state legislators, asking them to allocate unrestricted funds for the Sterling Forest.

WRITE on the WILD SIDE

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SIERRA welcomes your essay on any aspect of the natural world. We will select up to three winning essays for publication in our July/August 1995 issue.



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Send your submission to *Sierra* Nature-Writing Contest, 730 Polk St., San Francisco, CA 94109. Entries must be postmarked by February 1, 1995. Be

sure to include a stamped, self-addressed postcard if you wish receipt of your manuscript to be acknowledged, and an SASE (with appropriate postage) if you wish your manuscript returned. We will not notify non-winning entrants of the results unless we have an SASE.

The contest is open to all professional and amateur writers except Sierra Club staff and their immediate families, and previous winners of this competition. Void where prohibited.

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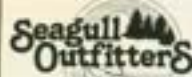
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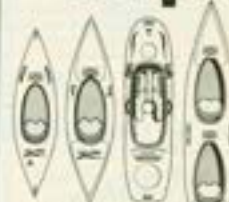
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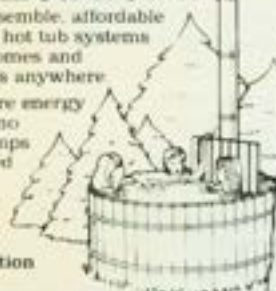
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Though our city prides itself on its "green" outlook—curbside recycling, neighborhood parks, bike paths, and a recently approved plan for mitigating the development of nearby wetlands—it still has a long way to go. Instead of more suburbs, we need to create neighborhoods akin to those already in the city core that make it easy to walk to shops and public places. We need to discourage sterile and largely treeless strip malls and refashion many of our existing commercial streets into European-style boulevards by adding benches, trees, fountains, and gardens, and stick to our urban growth boundary by encouraging "filling in" with new housing and commercial development when at all possible. Most importantly, we need to uphold current land-use planning procedures, rather than weaken or gut them.

*Craig Machado
Eugene, Oregon*

I live in a small college town in southwestern Utah. Even though we are only six years away from the 21st century, most of the population here still lives in the 19th (or what they believe was the 19th) century and think they want to keep it that way. At the same time, they want growth and development, a classic case of schizophrenia. They almost universally oppose Wilderness (at least with a capital W), the Endangered Species Act, water conservation, and so on. But they sure came together against a proposal for a toxic-waste facility. So, what would help make my town more livable? A change of attitude.

*Jim Case
Cedar City, Utah*

My city, while considered one of the most livable in the country (because of its reputation for good food and good living, a strong historic preservation ethic, and a tradition of festivals and parades) is not yet perfect. We need to address pollution problems and improve our public transit system if we want to help residents maintain a sense of pride in this place.

*Wendy King
New Orleans, Louisiana*

Simple noise reduction would be a boon to any urban or suburban community. This is especially true during summer, when windows and doors are open. Before long, electric or even solar energy might supersede today's clamorous gasoline engines. Imagine the quietude of a neighborhood in

WHAT WOULD HELP MAKE YOUR CITY OR TOWN MORE LIVABLE?

which the conventional power lawn mowers have gone the way of slamming screen doors. There would be a measure of sultry repose in purlieus free of motorcycles and cars with bad mufflers.

*William Dauenhauer
Wickliffe, Ohio*

Petroleum-burning weed whackers, leaf blowers, and chainsaws are a constant source of noise and air pollution. My town would be less stressful if folks used brooms and hand clippers. Excessive yard "maintenance" has done away with the natural beauty of wildflowers and connected ecosystems.

*Leslie Harris
Sanasota, Florida*

Cities currently subsidize single-occupant automobiles at the expense of other, less-polluting forms of transportation, such as light rail, bicycles, buses, taxis, and walking. We need to pass on the true costs of car use to car owners while providing adequate public transportation.

*Cecilie Birner
Berkeley, California*

If people would become more accepting of a few weeds in their otherwise astroturf-perfect lawns, they could stop using lawn chemicals. Every spring, summer, and fall, we who are sensitive to such chemicals suffer from the nauseating, headache-producing, noxious fumes that insidiously drift over lawn boundaries. Besides the well-

documented harm to people, pets, and the environment, they take away the joy of the seasons with their bitter, permeating stink. For three weeks after application, I can smell the stuff, and for three weeks the fragrance of trees and flowers is all but obliterated.

*Tine Thevenin
Bloomington, Minnesota*

Every tree destroyed by builders should be replaced with another tree. To reduce traffic congestion, developers of large housing complexes should be required to provide transportation to train stations and bus terminals. We need more bicycle paths, soccer fields, nature trails, and open space.

*Paul Feiner
Greenburgh, New York*

A master plan for development. The ugliness that plagues Houston (home of endless freeways, ravenous developers, and no zoning) is due in large part to its wild growth in the 1970s and early '80s, like a cancer out of control. The city needs an urban plan that includes plenty of green spaces and deals with the numerous, ugly, strip shopping centers.

*Clarissa Kay Bauer
Houston, Texas*

Environmentalists in urban areas need to shift from an "earth-centered" mind-set to a "justice-centered" way of thinking. We need to respond to city issues such as poverty, racism, and crime if we expect to win the support of urban residents and to question some of the assumptions that have defined the mainstream environmental movement. In the suburbs, for instance, public parks are usually considered to be "good," while in some urban neighborhoods, parks and playgrounds are often considered to be "problems" that attract drug users and gangs. How do urban environmentalists propose to deal with this reality?

*Robert Murphy
New Bedford, Massachusetts*

Eliminate the property tax. The property tax drives families from "valuable" real estate in the heart of the city. It drives urban sprawl into "worthless" land surrounding the city. It is the most anti-environmental law on the books. Property tax amounts to an edict that you exploit said property for the benefit of "government."

*Peter Wilson
Phoenix, Arizona*

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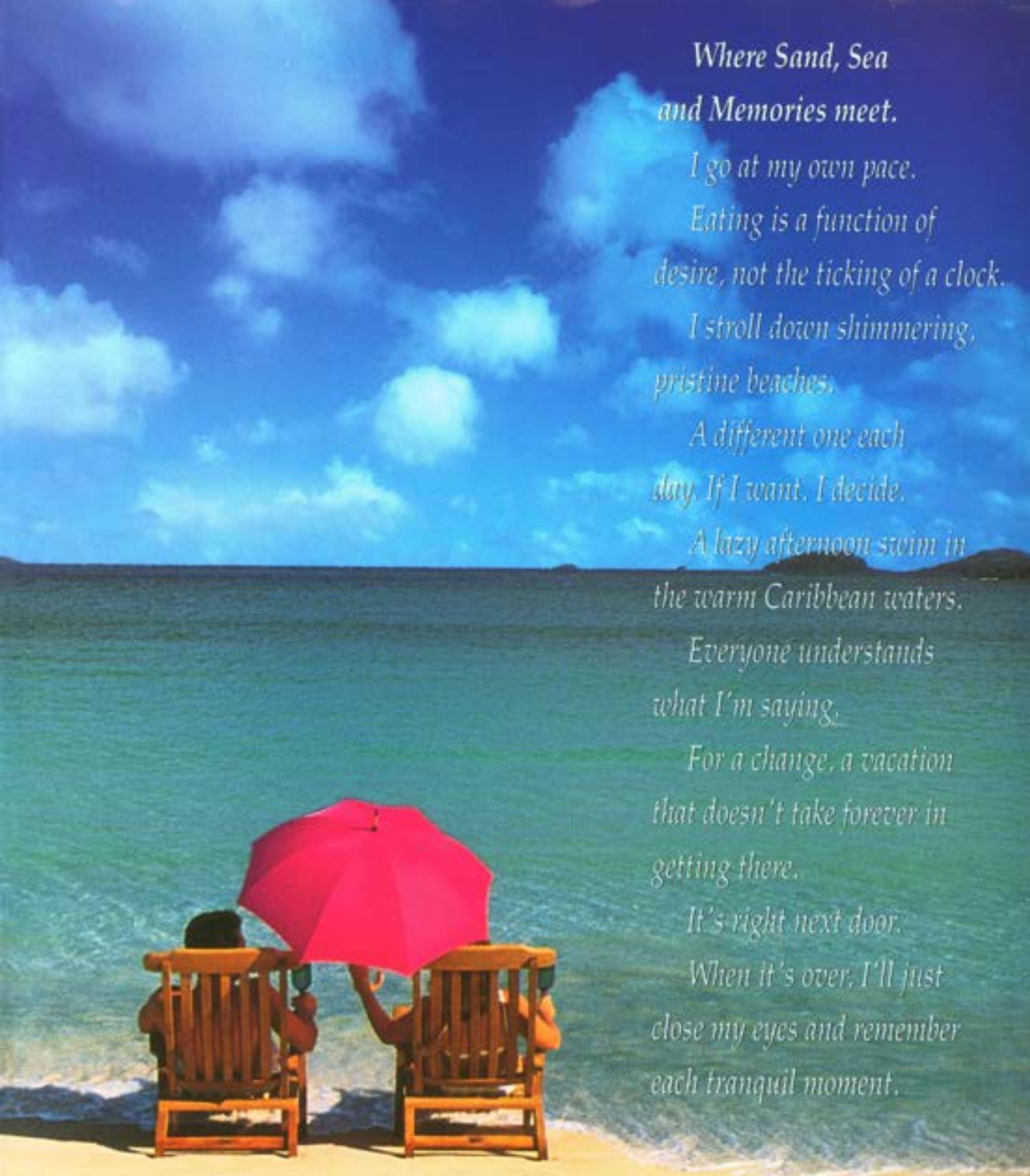
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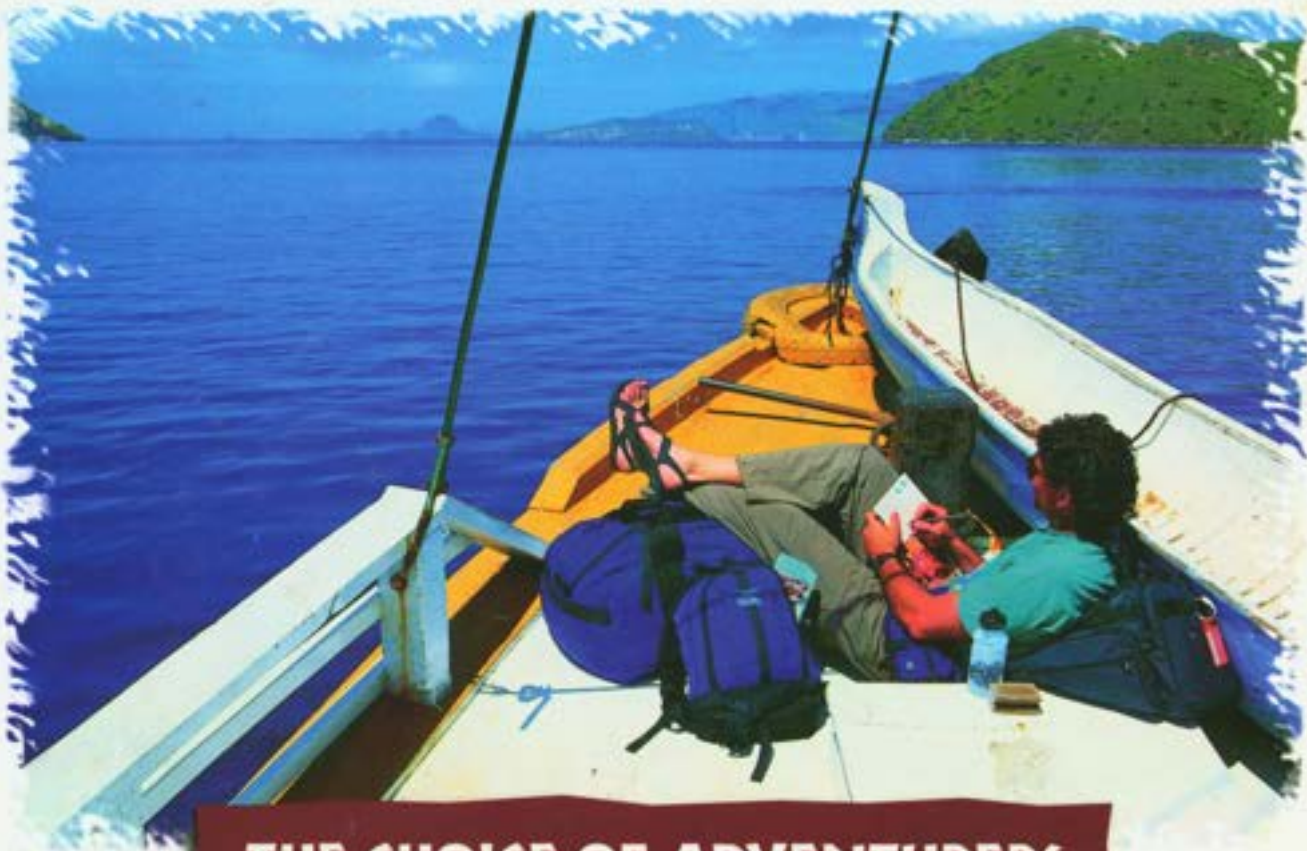
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