

The VENTANA

MAGAZINE OF THE VENTANA CHAPTER OF THE SIERRA CLUB

**FEB, MAR, APR
OUTINGS**



©SustainableStormwater.com, photo by Dave Elkin

Corner curb extensions in Portland, Oregon beautify the street, divert stormwater from the ocean, and provide a safer crossing for pedestrians.

5. SE Division Street New Seasons Market

Landscape planters in sidewalk area take street runoff while beautifying a commercial/retail zone.



NATURAL SYSTEM BENEFITS

- ✓ Provide Habitat
- ✓ Slowly Release Storm Flow
- ✓ Filter Pollutants
- ✓ Recharge Groundwater
- ✓ Reduce Erosion

Portlandonline.com



Sidewalk planting areas in Portland, Oregon collect rainwater and street runoff and return them to the water table.

Re-charging groundwater



Respecting waterways

pp. 3, 7, 8

Explore, enjoy and protect the planet

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DEADLINES FOR SUBMISSIONS

All materials for publication must be received by the deadlines listed below. No exceptions.

SUBMISSIONS FORMAT

Please limit articles to 800 words; letters to 300. All submissions may be edited for clarity and length. Email to dfbulger@cruzio.com. Mail hard copy to editor, address below.

PHOTOS

Photos submitted to *The Ventana* must meet the following requirements: No laser copies or inkjet outputs. Electronic photos should be no smaller than 1200 x 1100 pixels or 300 dpi. Cover photos must be 3000 x 2000 pixels. Film photos, slides, or negatives are fine. Please call the editor if you have any questions.

WHERE TO SEND SUBMISSIONS

Send submissions to Debbie Bulger, Editor, 1603 King Street, Santa Cruz, CA 95060. Email: dfbulger@cruzio.com.

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2009

Ventana Publication Schedule

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#3	May 18	Jun. 3
#4	Jul. 20	Aug. 5
#5	Sep. 21	Oct. 7
#6	Nov. 30	Dec. 16

Articles received after deadline may not be published

CHAPTER CHAIR

Scenic hikes await you

As many of you know, the Ventana Wilderness, one of our most popular venues for hiking and camping, is closed due to the fires last summer and not expected to reopen until spring or summer of this year. The weather is lovely now, and the shadows this time of year accentuate the beauty of our rugged hills and valleys. Take a few minutes to look through our outings section and see what our hike leaders have suggested for alternatives to the wilderness.

Consider a hike out of your usual routine. Pinnacles National Monument in the Salinas Valley consists of spectacular remains of an ancient volcano. The rock formations include monoliths, spires, sheer-walled canyons, and caves for exploring. There are long walks in the North Wilderness section and shorter hikes up on the balcony trails with views of the valley and Chalone Peak. Pinnacles is also a release site for condors, so with luck you may see one gliding overhead.

Also open is the Silver Peak Wilderness

Carl Pope to step down as Executive Director of Sierra Club

Sierra Club Executive Director Carl Pope announced in January that he is planning to step down as Executive Director of the Sierra Club as soon as a new Executive Director is hired. The Sierra Club Board of Directors has begun the search for a new director. Pope will serve as Chairman of the Sierra Club, focusing on Climate Change after his successor assumes the director's position.

The longest-serving Executive Director in Sierra Club history, Pope has been the head of the Club since 1992 and has been with the Club for over 30 years. Under his leadership the Club has grown in both size and influence, increasing its membership and volunteer activists and adding chapters.

"Over these years I have made many wonderful friends, and experienced both joyful victories and tragic setbacks in our struggle for a sustainable future," said Pope. "I want to express my tremendous thanks and appreciation for the hundreds of Sierra Club staff and volunteer leaders who have helped me so generously over the years," Pope noted.

area in the southern region of Big Sur. Highlights include dramatic Salmon Creek Falls right off Hwy. 1 and a trail system with camps at Spruce Creek, Estrella Camp, and Dutra Flat. The scenery includes views of the coast, verdant forests of Douglas fir, open meadows, and spectacular wildflowers as spring approaches.

Closer to home, trails suitable for day walks in Monterey County include Soberanes/Rocky Ridge, Jacks Peak County Park, Garland Ranch, Point Lobos, and Toro Park. Santa Cruz County has all their parks open, and now is a good op-

portunity for Monterey County members to explore the beauty of Big Basin, Fall Creek, Nisene Marks, Pogonip, and Wilder Ranch to name a few.

The chapter is always looking for qualified hike leaders to expand our programs and outreach to members. This year we will also be considering participation in national and international trips for the Club.

Members interested in volunteering as hike leaders should email us at chapter@ventana.sierraclub.org.

—Rita Dalessio

FROM THE EDITOR

Cycle of life

I remember the awe I felt on learning about the Water Cycle in elementary school. There is a finite amount of water on the earth and it changes its form and goes round and round forever.

The sun shines on the ocean, lakes, and rivers and heats up the water causing some to evaporate. Likewise, plants also give off water as they grow. When the air is saturated with water, some of it condenses forming clouds and sometimes falls as rain and snow. If it falls on the ground instead of the ocean, it can run off into a stream and then make its way to the ocean or it can sink into the ground and become groundwater.

And so it goes, continuously cycling from liquid, to gas, and sometimes to solid ice. I remember trying to get my head around that concept. I thought about the water cycle for a long time as a child, and remember asking my teacher, "Does that mean that I could drink the same glass of water as George Washington?" She smiled, hesitated a bit, and replied, "Well, yes, that could be possible."

What I was learning was that water resources are finite and that the cycle is closed. Then why do some people act as if water supplies are infinite? Have they forgotten fourth grade?

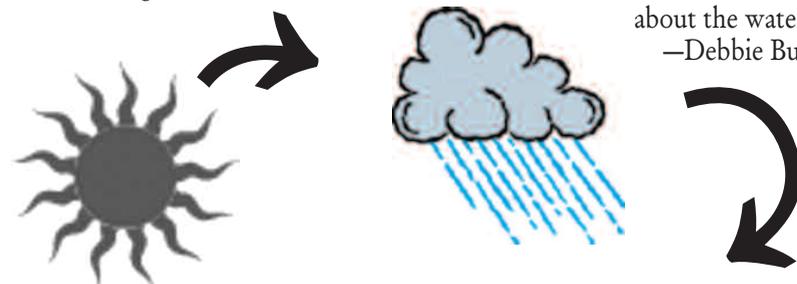
But of course, some people have indeed forgotten. Or don't wish to remember. The reality is that water is a precious resource that our way of life encourages us to squander.

I remember my normally-frugal mother, a child of the great Depression, washing dishes under a continually-running faucet. I also remember seeing young girls in Ethiopia where I served in the Peace Corps in the 1960s walking, sometimes over a mile, to the community water tap. Today I see neighbors with automatic sprinklers watering lawns even on rainy days.

Why shouldn't they? No one has asked them to do anything different. Every time most of us have ever turned on a faucet, the water flows. We don't know where it comes from, pay little attention to where it goes, and assume it will always pour freely.

All that is changing. We are learning that there is a finite amount of water. We are learning that if we take more than we replace from underground aquifers, wells dry up and seawater intrudes. We are learning that how we act can cause creeks to run dry and people to suffer. We are learning that what goes around, comes around. We are learning about the water cycle.

—Debbie Bulger



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LETTERS

The Ventana welcomes letters.

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Please include a phone number with your letter. Anonymous letters are not accepted. Letters may be edited for length.

Informative article

Thank you very much for your informative article last issue on "Healthy streams," by Jodi Frediani. Those two pages were better than any textbook in explaining the problems caused by inappropriate activity along stream beds. I also appreciated the practical examples from local projects, such as channelizing the Pajaro River and Branciforte Creek. It's wonderful to have such high-quality writing in a local publication.

—Allen Cypher

Aptos

Can we change?

Humanity is dying from excessive population and wasteful consumption. Humanity is killing itself through wars, inexcusable poverty, crime, tyrannies, and terrorism. Humanity is destroying itself through insatiable desires for power, fame, and material wealth. Humanity is denying reality and seeking to find security in gods and other make-believe ideas that are figments of needful imagination. Imagination also enables humanity to survive and to create the most beneficial factors of its culture when it learns and accepts the realities of life on this planet.

This is what we are. This is our biological and cultural inheritance.

We also have the inherited ability to make choices and to change our cultural inheritance.

We can choose to turn away from self-destructive consumption of our planet and violent terrorizing conflicts among ourselves. We know what we have to do. We know how we have to change.

Can we change? We can try, for the sake of all little children, now and in the future.

Those of us who are over eighty years old have seen significant social changes in civil rights, civil liberties, and economic equity. We have seen many beneficial material changes and improvements such as contraceptives, health-promoting and life-saving care, increased environmental and ecological knowledge.

But we have not seen significant social changes which would prevent worldwide poverty, crime, war, terrorism, and ongoing planetary environmental degradation. Are we doomed?

—Patricia Rayne

Aptos

Changing County policy on instream wood would be good for fish

Big logs in creeks provide critical habitat

by Kevin Collins

Santa Cruz County is considering modifications to its log jamb removal program. This is very good news for local fish and wildlife. There is a profound misunderstanding by the general public about how in-stream wood creates fish habitat and stabilizes stream banks.

In the past the County cut up logs and large trees that fell into area streams. They believed such wood caused flooding and blocked migrating salmon and steelhead. After many years of research by scientists all over the country, this notion has been thoroughly rejected. Now scientists recommend reintroducing large logs and stumps to denuded streams in an attempt to replace lost habitat for endangered coho, threatened steelhead, threatened red-legged frogs, and other aquatic wildlife.

Such wood is also critical to western pond turtles, salamanders, and other wildlife. Where wood objects are present in streams, juvenile fish take refuge during the summer. Western pond turtles rest on logs in the middle of streams where they are safe from attack by predators.

Trees will fall across and into streams naturally over time. Simply allowing these logs and other in-stream wood to remain would be a huge benefit to our vanishing steelhead and coho salmon populations. Of all the actions we could take to improve fish habitat, this would be by far the easiest, least expensive, and one of the most effective.

Large logs help create deep pools and hiding places where fish can rest and escape predators. During high water flows, when steam flow becomes violent, this wood provides shelter from fast water that otherwise might flush young fish out of the river too soon in their life cycle. In-stream wood creates hydraulic vortexes that sort out and deposit spawning gravels at the downstream rim of pools. This high-quality spawning gravel is very scarce in local streams full of sediment.

It was previously thought that clearing streams of wood prevented log jams. Many readers will remember the floods in January 1982 and in March 1995. The log jams that occurred during those storms were not caused by wood that was already in the stream channels, but rather by trees thrown into streams by landslides and debris slides during the storms, as confirmed by research.

In cases where a log jam forms against a bridge pier or directs water in a way that undermines a road, the County has the emergency authority to protect bridges and roads. If no emergency exists, the County (and private landowners) must consult with Fish and Game and the Na-



Kevin Collins

A log has fallen across this creek forming a deep pool on the upstream side where fish can hide.

tional Marine Fisheries Service before moving or cutting in-stream wood.

Most of the time instream wood is no threat to property. It can help protect stream banks, and by collecting sand and cobbles, actually slow the down-cutting of stream beds. With our new understanding of the critical function performed by logs in streams, we can temper our fears with a fresh understanding of how instream wood works to improve fish habitat and make our streams healthy and stable.

Please contact the Santa Cruz County Supervisors to tell them you support a new policy on instream wood based on science and not on fear and misunderstanding.

Email addresses of supervisors:

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Cutting their carbon footprints



Debbie Bulger

Jerry Clarke mows next to the sculpture he created from driftwood and shells.

by Debbie Bulger

A growing number of Central Coast residents have found a cleaner and greener way to cut their lawns. They are cutting their carbon footprints along with their grass. Esther Tribble, Jerry Clarke, Karen Warren, Roberta Friedman,

Robin Drury, and Andrew Dyer are a few of the smart locals using push mowers.

While friends and relatives in the Northeastern and Midwestern parts of the United States are shoveling snow or complaining about the cold, we on the Central Coast are mowing our lawns. If we use gasoline-powered lawnmowers, we are also emitting noise and noxious fumes.

An old two-stroke lawnmower can generate as much pollution in one hour as 40 pre-1995 cars driven for the same amount of time according to the Sacramento Metropolitan Air Quality Management District. A 2001 study by a Swedish chemist found that an average 4-stroke, 4-horsepower lawnmower used for one hour emitted the same pollution as a typical modern car driven about 100 miles. The researcher, Roger Westerholm, recommended putting catalytic converters on lawnmowers.

After a long fight with the U.S. EPA, California won the

right to do just that. Starting in 2007 the California Air Resources Board required catalytic converters for lawnmowers sold in California. In 2008, EPA finally adopted similar requirements for the nation which will begin in 2011.

Capitola resident Esther Tribble enjoys the light weight of her push lawnmower, a Husqvarna. Her neighbor, Jerry Clarke, liked Tribble's lawnmower so much, he borrowed it for 10 years. It was quieter and more maneuverable than his gas mower. Now Jerry has his own. Esther bought it for him as a thank you gift for Jerry's work in rebuilding her back deck.

Both Tribble and Clarke have small lawns. Tribble's keeps getting smaller. Last year she ripped out 200 square feet of lawn and replaced it with native and drought-tolerant plants. The Soquel Creek Water District paid her \$2/sq. ft. for the conversion—enough to pay for the plants which are watered by drip irrigation.

"I have 10-15 varieties of salvia. Now there are many more birds and bees in my yard," Tribble said.

Even if you're not interested in learning about the birds and the bees, you might want to learn about the benefits of push mowers. Push mowers, also called reel mowers or manual mowers, use human energy instead of fossil fuels. They provide good exercise, are quiet, economical, and best of all, use no gasoline or oil.

Karen Warren of Santa Cruz grew up using a push mower. She has a larger front and back lawn than either Tribble or Clarke. Warren's young daughter uses the yard to play, and her parents enjoy neighborhood get-togethers outside. "I hate the noise of a gas mower," Warren explains. "When you're spending time outside, you don't want it spoiled by the noise of a gas mower."

Roberta Friedman chose a push mower when the sound of the electric one she had been using made her toddler cry. "Besides," she says, "I kept running over the cord."

A quick Google search of "reel mowers" will give you a variety of options and brands to consider.



Debbie Bulger

Capitola resident Esther Tribble enjoys the light weight of her push mower.



Debbie Bulger

Karen Warren of Santa Cruz grew up using a push mower.



Clean coal is a myth

There is no such thing as “clean coal,” despite what you might hear from the ads produced by the coal companies. Environmental experts agree that coal is the dirtiest fuel America uses to produce electricity. Nothing about coal is clean. Mining and burning coal scars lungs, tears up the land, pollutes water, devastates communities, and makes global warming worse.

Mining coal by removing mountain tops kills streams in Appalachia. The 500 existing coal power plants in the United States emit two billion tons of CO₂ annually, making them the nation’s single largest source of global warming pollution. Other smokestack emissions from coal power plants are responsible for 25,000 premature deaths in the U.S. each year. Acid drainage from mines pollutes streams and kills fish.

The process of “washing,” separating impurities from coal before it is burned uses enormous quantities of water which is discarded as a “slurry.” Up to 90 million gallons of slurry are produced every year in the U.S. and stored in large waste pits sometimes along with scrubber sludge. Sometime the dams impounding the slurry fail with disastrous consequences. On December 22, 2008 a dam broke near Knoxville, Tennessee spilling 500 million gallons of coal slurry, 30 times the size of the Exxon Valdez spill.

Burning coal is the largest source of sulfur dioxide pollution and the second largest source of nitrogen oxide (one of the components of smog) in the United

States. This air pollution also causes acid rain which kills trees and harms aquatic life. Other pollutants emitted by burning coal include chromium, lead, arsenic, hydrogen chloride, and mercury. Mercury accumulates in fish and the people who eat them and can cause brain damage, mental retardation and other developmental problems.

The coal companies talk about new clean technologies. One of these, Carbon Capture and Sequestration, is unproven. Another, Integrated Gasification Combined Cycle, lowers soot and smog emissions but emits as much global warming pollution as other methods of burning and does nothing to clean up the mining process. Much touted liquid coal creates almost double the CO₂ emissions per gallon as gasoline. Replacing just 10% of our nation’s fuel with it would require a more than 40% increase in coal mining.

To combat some of the myths propagated by the coal industry, Sierra Club has

12,000 miners have died from black lung disease in the decade 1992-2002.

joined the Alliance for Climate Protection, League of Conservation Voters, National Wildlife Federation, and the Natural Resources Defense Council in launching an ad campaign telling the truth about coal.

To learn more visit www.sierraclub.org/coal.

**Much of this article is adapted from The Dirty Truth About Coal: Why Yesterday’s Technology Should Not Be Part of Tomorrow’s Energy Future, Alice McKeown, Sierra Club, 2007.*

More than 1,200 miles of streams have been buried or polluted because of mountain top removal mining in Appalachia.

State body proposes plastic bag fees, statewide polystyrene ban

The California Ocean Protection Council, a state body, has proposed banning polystyrene take-out containers and establishing plastic bag use fees as ways to reduce ocean litter. The proposal will require legislation in order to be enacted. Several local cities have already adopted polystyrene take-out bans.

The Council identified three primary approaches that the State should take: (1) establish a “take-back” program that would require manufacturers to take back used packaging and dispose of it properly; (2) institute a statewide fee on single-use plastic grocery bags and a prohibition on polystyrene food containers; and (3) impose user fees on other commonly-littered packaging items.

China, Australia, South Africa, Bangladesh, Tanzania, and several other

countries recently banned plastic grocery bags. In 2002, Ireland imposed a tax on the distribution of plastic grocery bags that resulted in a 95% drop in plastic bag use.

According to the Long Beach-based Algalita Marine Research Foundation, 60–80% of the world’s ocean litter is made up of plastic. In some areas, 90–95% of the marine debris is plastic. State and local governments spend millions of dollars every year on ocean litter cleanup. In fiscal year 2006, Caltrans spent \$55 million to remove litter and debris from roadsides and highways. Uncollected, most of this will ultimately drain into the ocean. Marine debris also negatively impacts California’s \$46 billion tourism-based ocean-dependent economy. Despite an ongoing effort for decades to reduce ocean litter, the proliferation of plastic debris

has increased exponentially.

The Ocean Protection Council was established in 2004 pursuant to the requirements of the California Ocean Protection Act. Its role is to integrate and coordinate State laws and institutions responsible for protecting and conserving ocean resources.

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EcoNote



According to Hashem Akbari, a scientist at the Lawrence Berkeley

National Laboratory, replacing a dark 1,000 sq. ft. roof with a light, reflective one could offset 10 metric tons of carbon dioxide emissions. If all the world’s roofs were white, it would be like taking all the world’s cars off the road for 11 years.

Deborah A. Malkin

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Sierra Club Events

Friday, February 13

Potluck & Slides: Costa Rica

Costa Rica—a nature Photographer's paradise—is a slide show by world traveler Vilma Siebers. The potluck begins at 6:30 p.m. Bring food to share and your own washable plate, cup, utensils, and serving utensils. We love home cooked meals or dessert, but store-bought items (minimum value \$5) make great contributions too. For directions call George, 335-7748.

Friday, March 13

Potluck & Slides: On the Edge-Species at Risk

This presentation is by Jeff Barnes, a widely-traveled wildlife photographer and an interpreter for the California State Parks. This is a repeat of the January slide show which was interrupted due to a projector failure. The potluck begins at 6:30 p.m. Bring food to share and your own washable plate, cup, utensils, and serving utensils. We love home cooked meals or dessert, but store-bought items (minimum

value \$5) make great contributions too. For directions call George, 335-7748.

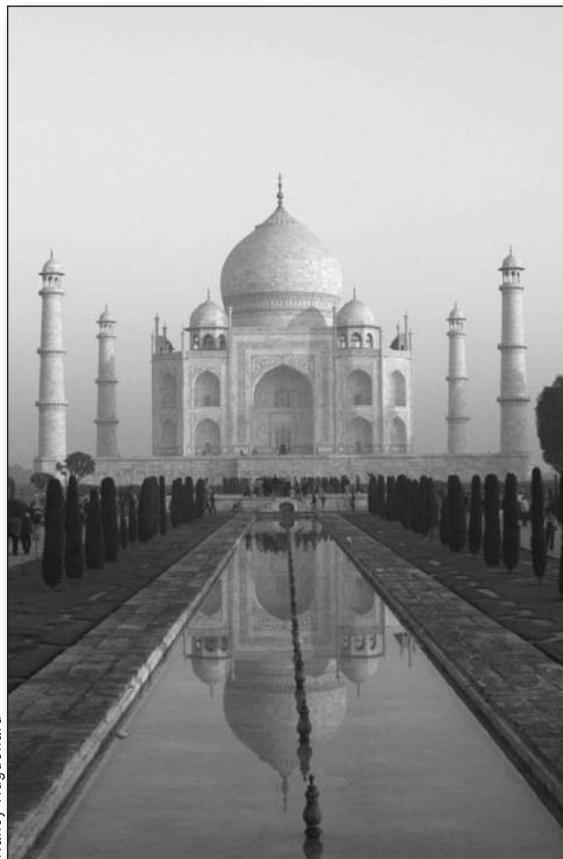


Jeff Barnes

Friday, April 10

Potluck & Slides: India

Nancy will present this slide show from her travel to India. The potluck begins at 6:30 p.m. Bring food to share and your own washable plate, cup, utensils, and serving utensils. We love home cooked meals or dessert, but store-bought items



Nancy Huguenard

(minimum value \$5) make great contributions too. For directions call Nancy, 423-6373 or George, 335-7748.

Spring and Summer

Channel Islands trips

Planning a vacation this May or during the summer? Consider a trip to the Channel Islands with a ranger/naturalist who will lead hikes and give talks. Fundraising event for Sierra Club political programs in California. Dates are May 1-4, July 17-20, August 7-10, and September 11-14. Cost is \$950 which includes bunk and all meals. For more info contact Joan Jones Holtz, 11826 The Wye Street, El Monte, CA 91732, jholtzhln@aol.com.



Mountain films featured at fundraiser

A scholarship fund for UCSC recreation and wilderness orientation programs will benefit from proceeds of the Banff Mountain Film Festival on February 27 and 28 at the Rio Theater in Santa Cruz. A different program will be offered each night at 7:00 p.m.

Films will feature exploration of remote landscapes, mountain cultures, adrenaline-fueled action sports, and wildlife. Tickets may be purchased online at www.ucsc recreation.com or in Santa Cruz at Bugaboo, Pacific Edge, or Sprockets.

Public input sought on National Parks

The National Parks Second Century Commission will host a public input session in San Francisco on Tuesday, February 24 from 1-4 p.m. at the Fort Mason Center. The Commission is charged with putting together a report with recommendations to the new Administration and Congress regarding the future of our parks as they approach and move into their second century. For directions and other info visit, www.fortmason.org/calendar.

Non-Sierra Club Events of Interest

The following activities are not sponsored or administered by the Sierra Club. The Club makes no representations or warranties about the safety, supervision or management of such activities. They are published only as a reader service.

Wednesday, February 11

Overpopulation and Climate Change

Dr. Judith Kildow will discuss the role of overpopulation in Climate Change and its impact on California. Dr. Kildow is Principal Investigator and Director for National Ocean Economics, Monterey Bay Aquarium Research Institute and adjunct professor at CSUMB. She was the a faculty member at MIT for 26 years. Monterey Elks Lodge, 150 Mar Vista Dr., Monterey. Lecture at 12:30 p.m. Buffet (\$16/person) at noon. Lecture alone is FREE. For more info call Lorita Fisher, 375-8301.

FREE Wormshops

Learn how worms can eat your food scraps and make beautiful compost for your garden. Master composters will teach you everything you need to know. Pre-registration required. Free and below wholesale worm bins for residents of unincorporated Santa Cruz Co. and Scotts Valley. \$50 charge for residents of Capitola, City of Santa Cruz, and Watsonville. Call 427-3452 to register. Sponsored by S.C. Co. Board of Supervisors; produced by County Public Works Recycling and Solid Waste Services.

Sunday, March 1, 1-3 p.m. Grey Bears Center, 2710 Chanticleer, Santa Cruz.

Saturday, March 28, 1-3 p.m. Grey Bears Center, 2710 Chanticleer, Santa Cruz.

Sunday, April 26, 1-3 p.m. Quail Hollow County Park, 800 Quail Hollow Road, Felton.

Saturdays

Garland Ranch Hikes

The Monterey Peninsula Regional Park District docents lead hikes at Garland Ranch every Saturday. An updated list of all hikes may be found on their website: www.mprpd.org.

Santa Cruz CNPS

Habitat restoration

Volunteer to restore native habitat in State Parks in Santa Cruz Co. Wear layered work clothes. Bring water & gloves. Tools provided. 10:00 a.m. to 1:00 p.m. We work rain or shine, but if things get particularly unpleasant, we call it a day. Contact Linda Brodman, redwdrn@pacbell.net, 462-4041. Website: www.cruz.cnps.org.

February 7, Quail Hollow County Park
February 21, Quail Hollow County Park
March 7, Quail Hollow County Park

Monterey CNPS

Habitat restoration

Volunteer to restore native habitat in State

Parks in Monterey Co. Wear layered work clothes. Bring water & snacks. Tools & gloves provided. Carpools meet at Rio Rd. Park and Ride. Rain or shine. Contact Jan Shriner, jshriner@mbay.net, 236-0905. Website: www.montereybaycnps.org.

Watsonville Wetlands Watch

Docent Training

Enrollment for new docents now open. Attend a 6-week training course starting February 18 on Wednesday evenings and Saturday mornings. Enrollees will be treated to an inside look at the Pajaro Valley and its wetlands. Training covers ecology, history, and wetlands restoration. Docents will learn to assist teachers during field trips and will lead walks. Cost: \$40. Contact Kathy Fieberling, 427-0654 or kathyfie@yahoo.com.

Fourth Saturday

Habitat restoration - Watsonville

Sponsored by Watsonville Wetlands Watch. 9:00 a.m. to 12:00 p.m. Meet at the Fitz Wetlands Educ. Resource Ctr. at Pajaro Valley HS. Gloves, tools, and snack provided. Call Jonathan Pilch, 728-4106, for more info. No experience necessary.

Green Streets improve water quality and beautify cities

by Celia Scott and Debbie Bulger

How a coastal city deals with stormwater runoff has a major effect on the health of the bay or ocean the city faces. City runoff is laden with gasoline, oil, tire dust and other pollutants from our streets. Because water runs downhill, urban runoff which is not properly managed will pollute all the water bodies that receive it. On the Central Coast, that runoff ends up in our creeks, our rivers, and the Monterey Bay National Marine Sanctuary.

Portland, Oregon, and Seattle, Washington, are demonstrating to the world there is a better way. These cities, and others across the United States, are designing and building Green Streets which trap stormwater runoff and capture pollutants. Green Streets use landscape-based drainage features such as green planters, curb extensions, swales, and porous paving to mimic the natural hydrologic cycle, control flow, and improve water quality while at the same time beautifying and increasing the safety of streets.

Experience in multiple cities across the U.S. has shown that Green Streets can be more cost efficient in managing urban

stormwater runoff than the usual "gray" infrastructure of concrete gutters and storm drains. Cities which have constructed Green Street structures include Milwaukee, Philadelphia, and Chicago, in addition to Portland, Seattle, and others.

In April 2007, the Portland City Council approved a Green Street policy in order to

- Reduce polluted stormwater entering Portland's rivers and streams,
- Improve pedestrian and bicycle safety,
- Divert stormwater from the sewer system and reduce basement flooding and sewer backups,
- Reduce impervious surface so stormwater can recharge groundwater,
- Increase urban green space,
- Improve air quality and reduce air temperatures,
- Address federal and state requirements to protect watersheds, and
- Increase opportunities for industry professionals.

The Portland City website is a fountain of information about Green Streets including a copy of their policy, photos of projects throughout the city, detailed con-



Green Streets trap stormwater runoff and capture pollutants. Additional examples are shown on page 1.

struction drawings, and evaluation criteria, to mention a few of the resources. These can be accessed at www.portlandonline.com.

To fund Green Streets, Portland adopted a "One Percent for Green Fund." Projects that trigger the requirements of the City's Stormwater Management Manual must construct Green Streets. If a project does not fall under those requirements, the city collects one percent of the construction budget to support construction of Green Street facilities.

The monies collected are then available for other projects in the city. The funds are collected by the Bureau of Environmental Services. How's that for a city department!

Those interested in protecting our precious watersheds and the ocean can profit from studying the examples of other communities that have moved ahead in best practices for stormwater management. In addition to the Portland

City website, check out the Center for Neighborhood Technology Green Values Tool Kit at <http://greenvalues.cnt.org>.

We need to make sure that every city and country public works department on the central coast is familiar with Green Streets and is working to incorporate those principles into our community projects.

Air Board warns consumers about air purifiers

The California Air Resources Board has issued a warning to consumers not to purchase air purifiers or air cleaning devices that intentionally generate ozone.

Consumers may unknowingly purchase these "ozone generators" from advertisers touting the so-called benefits of "activated oxygen" that can make the air inside your home "as fresh as the outdoors after a thunderstorm." Ozone, a well-known component of smog, has been extensively studied and the harmful effects well documented.

"Consumers should take care when considering purchase of an air cleaning device," said Air Board Chair Mary Nichols, "Beware of misleading advertisements offering air purifiers that are simply indoor smog-making machines."

Ozone generators are capable of emit-

ting enough ozone indoors to far exceed outdoor health standards and can intentionally create the equivalent of a Stage 1 smog alert inside your home. These devices pump a well-known air pollutant into people's homes putting everyone at risk, especially the most vulnerable among us, including the young, elderly, and infirm.

The devices can produce potentially harmful levels of ozone that can worsen asthma, cause serious lung inflammation, decrease lung function, and lead to hospitalization for respiratory conditions, emergency room visits for asthma, and increased school absences.

Air cleaners are currently being tested to assure they do not emit harmful levels of ozone; however, testing of air cleaners by certified laboratories is expected to take up to two years, during which time

high ozone-emitting devices can still be sold. For that reason, the Air Resources Board recommends consumers avoid the purchase of any air cleaner for home or office that intentionally emits ozone.

The best and most effective way to avoid indoor air pollution problems is to remove the sources of the pollution or prevent emissions to begin with. Improving fresh-air ventilation is also helpful.

For a list of purifiers to avoid, visit www.arb.ca.gov/research/indoor/o3g-list.htm.

EcoGoods having a big sale

EcoGoods is celebrating its 15th anniversary in business this year. As a special thank you to customers, EcoGoods is marking everything in the store 15% off from March 1 through March 15. Fifteen days of savings!



Moving?

Please fill out and mail the change of address form on p. 13 or email: address.changes@sierraclub.org
The post office charges us 70¢ each if they handle the address change. Please help the club by using the coupon on p. 13.

Thank you!



Monarch numbers declining

Watching thousands of monarch butterflies overwinter in our communities is a special benefit of living on the Central Coast. Over the last decade, the number of monarchs observed during the Xerces Society's annual Thanksgiving count has declined. Comparisons of counts for 1997 and 2006 for nearby butterfly havens are:

	1997	2006
Lighthouse Field, Santa Cruz	70,000	14,000
Moran Lake, Santa Cruz	70,000	6,800
Natural Bridges, Santa Cruz	120,000	10,000
Butterfly Grove Sanctuary, Pacific Grove	45,000	28,746

These counts and others are posted at www.Xerces.org.

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Straight talk needed about North County water supply

by Julie Engell

Most people are unaware of the pending water crisis steadily flowing toward North Monterey County. Although the prohibition on further subdivision (and water use) in the unincorporated lands surrounding the City of Salinas and inland North County contained in the latest version of the General Plan (GPU5) is a step in the right direction, it will not be enough.

The sobering reality facing North County residents is that regionally, water demand outstrips supply. Unless county leaders make some hard decisions regarding water use, some residents will be left high and dry. Will our elected leaders have the courage?

How water moves

In order to understand the extent of the looming plight, one must know something about where our water comes from and how it flows. Monterey County depends almost exclusively on groundwater for both agricultural uses and urban water supplies. The underlying aquifers are

recharged in large part by streambed percolation, i.e., water percolating through porous riverbeds and streambeds and refilling the aquifers beneath them.

In addition, the various underground aquifers are connected, enabling water to run from one to the other. Not only does water flow seaward in our creeks and rivers, it also flows toward the sea underground through the aquifers.

Indeed, this underground flow is how most of the North County aquifers get recharged since overlying impermeable clay prevents the penetration of rain in many places. Much of the Salinas River and Pajaro River watershed aquifers depend on recharge from upstream via underground aquifer flows.

The situation is further complicated by the alterations on the land surface by agricultural and urban development projects which drain water and rush it to the sea as quickly as possible without letting it seep into the ground and recharge the aquifers. Historically the Salinas River was re-routed and straightened, reaches of the Pajaro River channelized, the Moss

Landing harbor was opened to the ocean, lakes in the Salinas Valley were drained to make way for cropland, and storm drains were built in cities to speed away the water. So now, instead of letting water meander through the valleys and percolate into the upper aquifers, we have built a system in which the land now sheds its water and rushes it into the ocean.

While we were busy draining the land, demand for water was increasing. Increased pumping of freshwater decreased pressure in the aquifers and seawater began to intrude. As early as the 1940s in the Salinas Valley and the 1950s in the Pajaro Valley, seawater intrusion was identified as a threat.

Seawater intrusion has reached the outskirts of Salinas, and in the Pajaro Valley, seawater is advancing on the City of Watsonville and the town of Pajaro. Although the effect is on coastal residents, seawater intrusion is caused by both coastal and inland pumping.

Interdependent jurisdictions

Complicating the hydrology are three factors:

1. Most North County water users depend on individual or shared wells instead of regional water systems.
2. Most North County households are on septic systems instead of sewer hookups, resulting in significant nitrate contamination of groundwater.
3. Several different water agencies and water purveyors operating within North County make implementing an area-wide plan nearly impossible.

Lack of water infrastructure (pipes, pumps, and high-production wells) makes it impossible to minimize the risk of well failure or share the costs of providing potable water. Within each river basin (Pajaro and Salinas) all water users are

“We never know the worth of water till the well is dry.”

—THOMAS FULLER

drawing their water from the same interconnected aquifers, making all water users responsible for overpumping and for seawater intrusion. But geologic complexities underground leave North County water users more vulnerable to that overpumping. Without the pipes and pumps to move water where it's needed, individual and shared wells in North County will continue to fail.

When the water flows underground, it is hard to see the connections, especially if you're not having water problems yet. Voters may not understand the part they play in the problem and may not be willing to tax themselves for what they consider someone else's problem.

Supplemental water for the Salinas Valley

The search for supplemental water supplies started over 50 years ago. In the Salinas River watershed, the County built the San Antonio and Nacimiento Reservoirs in the 1950s and 60s. The plan was to use the reservoirs to augment water supplies during the growing season when agricul-

Continued on p. 9.



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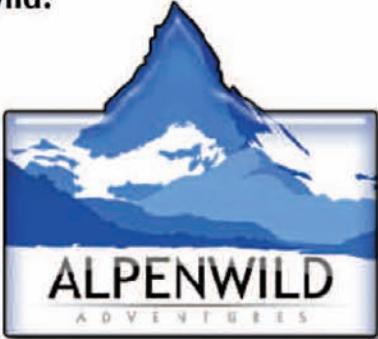
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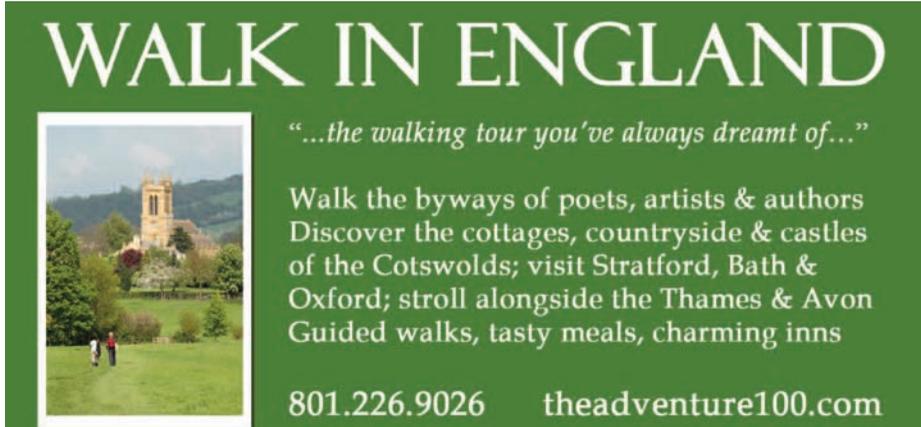


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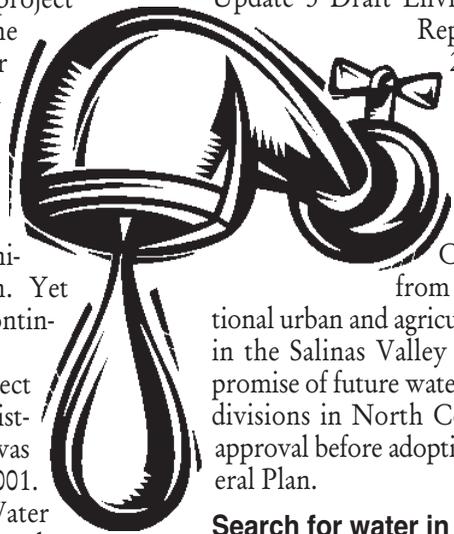
Continued from p. 8.

tural irrigation demand (80-90% of total water use) was the highest.

But demand for water continued to grow. More agricultural land was brought into production, and urban demand accelerated.

A recycling water project built in the 1990s by the Monterey County Water Resources Agency and the Monterey Regional Water Pollution Control Agency delivered water to farmers near Castroville in an attempt to minimize seawater intrusion. Yet seawater intrusion has continued.

A massive water project in the Salinas Basin consisting of three components was approved by voters in 2001. This Salinas Valley Water Project, which is still incomplete, consists of changes to the Nacimiento Dam spillway, changes to dam operations, and an inflatable rubber dam to impound and distribute water on the Salinas River during the dry months for distribution to coastal farmers for irrigation.



Despite promises to the contrary, the Salinas Valley Water Project will not halt seawater intrusion. Its capacity has been oversold. Furthermore, its potential for expansion likely will be limited by impacts on endangered steelhead. Even analysis prepared for the General Plan Update 5 Draft Environmental Impact

Report admits that by 2030, seawater intrusion will continue at 2300 acre-feet per year.

This stark reality has not prevented County Supervisors from encouraging additional urban and agricultural development in the Salinas Valley based on the false promise of future water. Several large subdivisions in North County are pending approval before adoption of the new General Plan.

Search for water in the Pajaro Basin

The Pajaro Valley Water Management Agency, established in 1984, straddles parts of Monterey and Santa Cruz Counties. Like the Salinas Basin, the Pajaro Basin faces overpumping and projections for growth. The Agency proposed its

Basin Management Plan to balance the groundwater basin and eliminate seawater intrusion. The Plan components consisted of conservation, recharge of the Harkins Slough area, substituting piped-in water for coastal pumping, recovering recycled water from the Watsonville Wastewater Treatment Plant, and importing water from the Central Valley.

The Harkins Slough Project was completed in 2002. The recycled water project will begin deliveries in March. Most of the coastal distribution system has been installed. However, the Agency is facing bankruptcy due to revenue losses incurred when the courts rescinded a water pumping fee it imposed without voter approval. Without the pumping fee, the Agency did not have the money for the import pipeline, and the State demanded return of its \$6.8 million pipeline grant.

As a result, the project is stalled, the Agency may go under, and Santa Cruz County is considering declaring a water emergency for areas managed by the Agency. In Monterey County, the Agency's problems have created scarcely a ripple. Several new subdivisions are slated to move ahead.

What will we do?

As serious as the water situation is

now, climate change will only make matters worse with lower projected rainfall, warmer weather, and rising sea levels. Will we face reality? Will our politicians exercise courageous leadership? Will voters have the collective political will to plan for our children instead of focusing on stop-gap measures? Will we finally come to the realization that with too many customers sucking on the straw, the source will not only decline, but might run dry?

Is there anything more important than water?



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Learning bird behavior turns kids into scientists

Why is that crow chasing a hawk? Do birds fly away from noisy places? How long will an American Robin spend pulling a worm from the ground? The BirdSleuth curriculum from the Cornell Lab of Ornithology is all about tapping into a child's natural curiosity to answer scientific questions in a fun way. The just-released revision of the Exploring Bird Behavior module offers educators even more lessons, posters, and multimedia resources. The new student toolkit comes with a BirdSleuth stopwatch and tally counter.

A 32-page teacher's guide includes step-by-step instructions for completing all six lessons, or "investigations."

The Exploring Bird Behavior module, like the others in the BirdSleuth series, engages students in inquiry by building lessons and activities around citizen-science projects from the Cornell Lab of Ornithology. To learn more about the new Exploring Bird Behavior module and about the entire BirdSleuth curriculum, visit www.birds.cornell.edu/Bird_Sleuth.edu.

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Border wall harming wildlife



Jay Johnson-Castro

The border wall prevents animals from reaching water sources and blocks travel and migration routes for jaguars, ocelots, jaguarondi, deer, and wolves.

Construction of the controversial wall between the United States and Mexico built by the Bush Administration and touted by the Department of Homeland Security not only blocks passage by people, it is harming wildlife and has destroyed large swaths of critical habitat. The Bush Administration envisioned 670 miles of wall on the southern border of the U.S. Over 600 miles of the wall have been built.

In constructing this barrier, the De-

partment of Homeland Security has dispensed with more than 30 laws enacted to protect public lands and wildlife. Michael Chertoff, former Head of the Department of Homeland Security, has waived the Endangered Species Act, the Clean Water Act, the Wilderness Act, the National Environmental Policy Act and other laws under the power given to him by Congress with the Real ID Act of 2005. This law gives the Department of Homeland Security the

power to waive any local, state, or federal law that interferes with construction of a physical barrier on U.S. borders.

In 2006 when the Defenders of Wildlife obtained a court order halting construction of the wall in the fragile San Pedro Riparian National Conservation Area in Arizona, Chertoff invoked the Real ID Act, and the construction resumed.

The wall prevents animals from reaching water sources and blocks travel and migration routes for jaguars, ocelots,

jaguarondi, deer, and wolves. Wall construction has destroyed habitat for cactus-dwelling pygmy owls, thick-billed parrots, the Mexican vine snake, and other species.

Even the Bush EPA expressed concern about habitat fragmentation, the lack of proper assessment of construction sites, lack of consideration of alternatives, imprecise and non-quantitative language in the planning documents, and other issues.

The Real ID Act enabled Homeland Security to ignore these concerns.

How to help

- Sierra Club supports repeal of the Real ID Act which we believe is unconstitutional. Contact your Congressional Representatives and voice your opinion. (See addresses on page 3)

- To get involved and learn more contact Lynne Simpson, 475-7767 or thebeach175@comcast.net.

NEWSCLIPS

Wild Arctic

In January, Senator Joe Lieberman introduced a bill to designate the Arctic National Wildlife Refuge as Wilderness. If enacted into law, the legislation will afford the strongest protection to this refuge for caribou, muskoxen, and other animals. Wilderness designation will protect the refuge from oil drilling.

Fatal blow

In a great Christmas present to California, the Bush Administration Commerce Department upheld the California Coastal Commission's rejection of the proposed toll road through San Onofre State Park. The Commerce Department could only override the Coastal Commission's decision if construction of the road was essential for national security or if the project had no alternatives—both far-fetched arguments even the Bush Administration didn't buy.

Play it safe

Plant Physiologist Martha Booz recommends buying organic soy and corn since most non-organic soy and corn are routinely sprayed with Roundup. ("Roundup Ready") A December article in the journal *Chemical Research Toxicology* found that Roundup residues are toxic to human cells even at "low levels of residues in food or feed."

New EPA head

Sierra Club is pleased with Lisa Jack-

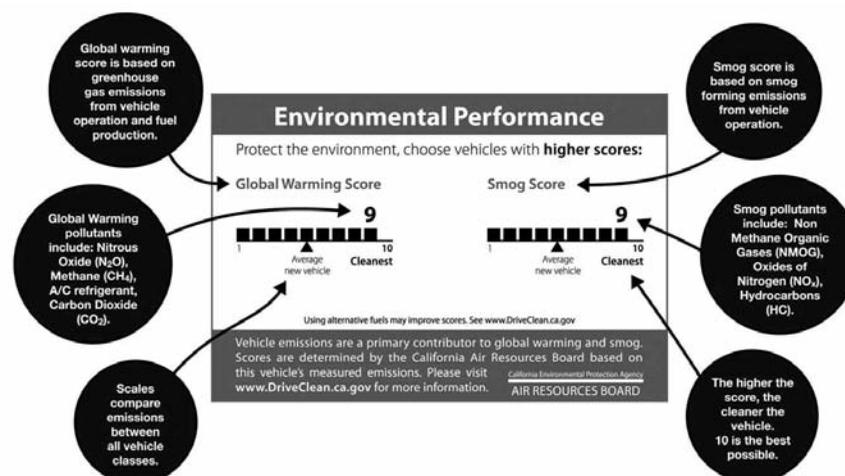
son's appointment as head of the EPA. In her six years with the New Jersey Department of Environmental Protection she took the lead in New Jersey's fight against global warming, advocated for renewable energy and efficiency measures, promoted a buy-out program for flood prone properties, increased stream protection, led the effort to retrofit diesel school buses and more. Jackson will be an important member of the Obama Green Team.

Volume's up

Researchers have found that the ocean is becoming more acidic as its level of CO₂ increases. The more acidic seawater enables sound to travel farther interfering with marine mammal communication and navigation. In the past 200 years (since the industrial revolution) scientists believe the ocean has become 30% more acidic. Another reason to get serious about addressing global warming.

Performance label

The California Air Resources Board now requires an Environmental Performance label on new motor vehicles sold in California. The label shows how that vehicle compares with others in both smog and greenhouse gas emissions. Much like the Energy Star rating for appliances, the new label will help consumers choose greener vehicles. An example of the new label is shown below.



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OUTINGS RATINGS

GENERAL INFORMATION:

All outings begin and end at the trailhead. Carpooling to and from the trailhead is strictly a private arrangement between the driver and the riders. Carpool drivers are not agents or employees of the Sierra Club.

EXPLANATION OF RATINGS:

The outings described vary in difficulty from leisurely walks to strenuous hikes. The following explanation is a general guideline. (For more information about the difficulty of a particular outing, call the leader).

Walk: Between 2-5 miles, leisurely pace.

Easy: No more than 5 miles; slight elevation gain; easy pace.

Moderate: 5-10 miles; up to 2000' gain; boots; better than average fitness required.

Strenuous: May involve off-trail hiking; demanding pace; for experienced hikers in good condition only.

MEETING PLACES

DIRECTIONS:

Rio Road Park & Ride: This parking lot is on Rio Road in Carmel.

Save-Mart / Bagel Bakery: (formerly Albertson's) South of Monterey on Hwy. 1. One mile past Ocean Ave., turn L on Carmel Valley Rd. Almost immediately, turn R at the light. Save-Mart/ Bagel Bakery on the R.

Santa Cruz County Government Center: The large grey building at the corner of Ocean & Water in Santa Cruz. We meet at the corner of the parking lot nearest to the intersection.

Felton Faire: The shopping center at the junction of Graham Hill and Mt. Hermon Rds in Felton. We meet at the edge of the Safeway parking lot nearest Graham Hill Rd.

41st Avenue / Sears: From Hwy. 1 in Capitola take the 41st Ave. exit. Go toward the ocean on 41st Ave. Pass the main Mall entrance and turn right into the next entrance near Sears. We meet behind the bank located at 41st and Capitola Road.

MPC Parking lot: Monterey Peninsula College Parking Lot. From Hwy. 1 take the Fisherman's Wharf exit, go straight one block, turn L and L again into the first parking lot—A. This is the site of the Thurs. Farmers Mkt. Plenty of parking with no fee on weekends.

carpool news

Meet 1 hour before formal meeting time in order to save gas and protect the environment when participating in out-of-county outings. Informal (no leader) carpool meeting spots:

Santa Cruz: County Gov't Center
Monterey: Home Depot Seaside

In the interest of facilitating the logistics of some outings, it is customary that participants make carpooling arrangements. The Sierra Club does not have insurance for carpooling arrangements and assumes no liability for them. Carpooling, ridesharing, or anything similar is strictly a private arrangement among the participants. Participants assume the risks associated with this travel. CST 2087766-40. Registration as a seller of travel does not constitute approval by the State of California.

Participants will be required to sign a liability waiver. To read it before choosing to participate on an outing go to www.sierraclub.org/outings/chapter/forms/.

FEBRUARY

Saturday, February 7

HIKE: FALL CREEK

Enjoy the wintry beauty of Fall Creek. 9-mile loop, 1200' elevation gain. Meet at the Santa Cruz County Government Center parking lot at 9:30 a.m. or at Felton Faire at 9:50 a.m. Bring water, lunch, and \$2 carpool. Heavy rain cancels. Leader: Pamela Burnham, 915-2475.

Saturday, February 7

HIKE: JACKS PEAK

We'll walk around Jacks Peak clockwise, starting at the elementary school on Olmstead Road (near Monterey airport). 6 miles with less than 1000' elevation gain. Beautiful views of Monterey and Point Lobos. Bring water and lunch. Heavy rain cancels, dribble doesn't count. Dress for winter weather. Confirm by calling. Leader: Anneliese Suter, 624-1467.

Sunday, February 8

HIKE: PINNACLES

Now that the weather has cooled it is the best time to visit my favorite place to hike! Always wonderful views, amazing geologic formations, and usually dryer than the coast. 10 miles with 1200' elevation gain. Bring food and water. Call leader for carpool information. No rain cancellation! Leader: John Howerton, 476-4253.

Tuesday, February 10

SENIOR WALK: SUNSET BEACH

We'll walk both the bluffs and the beach. Moderate 4-mile walk with little steep hills. Dress for weather. Meet before 9:30 a.m. at Sears 41st Ave. or at Sunset Beach at the kiosk parking lot at 9:50 a.m. Bring lunch, water, \$2 carpool. Rain cancels. Leader: Joan Brohmer, 462-3803.

Tuesday, February 10

HIKE: MITTELDORF PRESERVE

This 4 1/2 mile loop with 900' elevation gain has 8 bridged creek crossings, a redwood forest, and spectacular views. Bring water & lunch. We leave carpool spot at 9:30 a.m. sharp. Meet at Rio Road Park & Ride. Call for a reservation. Leader: Lynn Bomberger, 375-7777.

Saturday, February 14

HIKE: LONG RIDGE

Kirk Smith used to lead this walk for the Club before he handed it off to me. Two participants met on this event when Kirk was leading and came back the following year to announce their marriage. 8 miles and 1100' elevation gain. Meet at 9:30 a.m. at the Santa Cruz County Government Center to carpool. Call for more information. Leader: Nick Wyckoff 462-3101.

Saturday, February 14

WALK: CARMEL RIVER BEACH

How about an early morning walk from Carmel River Beach to Monastery Beach via the hill and back via the Bluff Trail? Enjoy views of Point Lobos and listen to the surf. 3 miles. Wear comfortable shoes; dress for the weather; windbreaker recommended. Bring water and snack. Meet at parking lot at Carmel River Beach at the lagoon (south end of Carmelo). Call leader to reserve a space and for meeting time. Rain cancels. Leader: Martha Saylor, 372-9215.

Sunday, February 15

HIKE: WILDCAT CANYON/TORO PARK

A crisp winter day is a good time for this climb up a narrow path to the Toyon Trail where we'll find a sunny spot for lunch and great views before we circle back to the park entrance. The trails are steep in spots, but we'll take an easy pace. Not to exceed 5 miles. Dress in layers (chilly in canyon/windy up top),

wear shoes with good tread. Hiking sticks a good idea. Bring lunch and water. Meet outside the entrance to Toro County Park (just west of Hwy. 68 at Portola Drive exit) at 9:45 a.m. Rain cancels. For detailed directions, call before Feb. 14. Leader: Mary Gale, 626-3565.

Tuesday, February 17

SENIOR WALK: ANTONELLI POND

We'll start our 3-mile, easy hike along the west side of Antonelli Pond, visit the homeless garden, then on to Terrace Point to the Seymour Center. We'll return to Natural Bridges for lunch. Meet at Sears 41st Ave. before 9:30 a.m. or on Delaware Ave. at entrance to Natural Bridges at 9:50 a.m. Dress for weather. Bring lunch, water, \$2 carpool. Leader: Jean Harrison 425-5447.

Tuesday, February 17

HIKE: TORO COUNTY PARK

This 5 1/2 mile hike with 800' elevation gain takes us through a forested valley then up to oak-dotted grasslands. Moderate pace with stops to enjoy early wildflowers. Bring water & lunch. Arrive at meeting place early; we leave at 9:45 a.m. sharp from the dirt parking area outside Toro Park. Call for a reservation. Leader: Lynn Bomberger, 375-7777.

Wednesday, February 18

HIKE: FORT ORD PUBLIC LANDS

We'll be walking over rolling grasslands that were once used for military maneuvers. Today the sandy path follows a dry creek bed bor-



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dered by eucalyptus, oak, and maple trees before it goes uphill 600' on Guidotti Rd. to Skyline Rd. As we pass sandstone outcroppings lining the hilltop, we have views over Salinas and Toro Park. Bring lunch and water for this 8 1/2 mile hike. Meet at Sears 41st Ave. at 9:00 a.m. or at 9:15 a.m. at the back of the Deerpark parking lot next to Rio Del Mar Blvd. \$4 car-

pool. We'll leave from the trailhead at the west end of Toro Creek Estates on Hwy. 68 at 10:00 a.m. Leader: Diane Cornell, 423-5925.

Sunday, February 22

HIKE: SALINAS RIVER STATE BEACH

We'll hike 4 miles south along the pristine Salinas River State Beach to the mouth of the river in the Salinas River National Wildlife Refuge. After a short break, we'll hike back for an optional lunch at Phil's seafood restaurant in Moss Landing. Excellent opportunities to view shorebirds and marine mammals. From Hwy. 1, take Moss Landing Rd. to Sandholdt Rd. Meet at 9:00 a.m. in the parking lot on the left, after crossing the bridge. (Do not take Potrero Rd. to the wrong lot!) 8 flat miles. Rain cancels. Leader: Eugene Sobka, 449-0873.

Sunday, February 22

HIKE: TORO PARK

Some of the earliest wildflowers can be found here along with some great birding! Hopefully, we'll see some Trillium and a golden eagle. A rambling hike to the site of a 1940s plane crash, then up to the hill for lunch. Usually warmer than the coastal hikes. 8-9 miles, 1000' elevation gain. Meet at Sears 41st Ave at 8:00 a.m. or Home Depot, Marina at 8:45 a.m. Bring water and lunch. Leader: John Howerton, 476-4253.

Tuesday, February 24

HIKE: GARZAS CREEK

Our 4 1/2 mile loop with 900' elevation gain takes us through a redwood canyon and along Garzas Creek with six picturesque crossings. Moderate pace with stops to enjoy early wildflowers. Bring water & lunch. We leave at 10:00 a.m. sharp from Rio Road Park & Ride. Call for a reservation. Leader: Lynn Bomberger, 375-7777.

Wednesday, February 25

HIKE: POINT LOBOS

Point Lobos has everything from pine forests to granite rock coves, sea caves, sandy beaches, rocks with native grinding holes, and a whaling exhibit. I like to start hiking from the entrance station on the South Plateau Trail to Gibson Beach and Pelican Point. A great place for lunch is on the South Shore before crossing the reserve and climbing to Whalers Knoll and then walking over to Coal Chute Point. We can see lots of healthy Monterey Pines in our 8-mile tour of the whole Reserve. Sun, rain, or fog this is always a picturesque hike that is the most well known on the Monterey Peninsula. Meet at Sears 41st Ave. at 9:00 a.m. or at the back of the Deerpark parking lot next to Rio Del Mar Blvd. at 9:15 a.m. \$4 carpool. Or meet us at the entrance station of the Pt. Lobos Reserve at 10:00 a.m. Bring water and lunch. Leader: Diane Cornell, 423-5925.

Wednesday, February 25

SENIOR WALK: ASILOMAR SOUTH

Easy 3+ miles to Pt. Joe and loop back. Dirt paths, streets, sandy paths, and boardwalks along the ocean. Bring snacks to eat while hiking. Lunch just north of Pt. Joe. Meet at Sears 41st Ave. before 9:30 a.m. or by the Fishwife Restaurant at 10:30 a.m. Dress for weather. Bring water, lunch, \$4 carpool. THIS IS A WEDNES-

DAY HIKE. Leader: Brooke Ewoldsen 476-6188.

Saturday, February 28

HIKE: OHLONE BLUFF TRAIL

Enjoy the rugged beauty of cliffs, coves, and the ocean on this hike along the Ohlone Bluff Trail in Wilder Ranch. Minimal gain, but must be able to hike 10 miles at a moderate pace. Meet at the Santa Cruz County Government Center at 9:30 a.m. Heavy rain cancels. Leader: Pamela Burnham, 915-2475.

Sunday, March 1

HIKE: FORT ORD

Let's hike an out-and-back loop on the Fort Ord Public lands. 9 miles with a few hundred

Getting to outings
Sierra Club encourages outings participants to walk, bicycle, and take the bus to outings meeting places.



feet elevation gain. We may see some early wildflowers. Meet at the Thrift Shop on Lightfighter Road at 9:00 a.m. Take the Lightfighter exit off Hwy. 1 and park in the Thrift Store parking lot (right at the second traffic light). Bring lunch, water, and wear sturdy shoes. Leader: Steve Legnard, 588-9150.

Tuesday, March 3

HIKE: LAND OF MEDICINE BUDDHA

This 6-mile loop with 500' elevation gain includes a lovely redwood forest and a beautiful creek. Moderate pace with stops to enjoy flora & fauna. Bring water & lunch. We leave at 8:45 a.m. sharp from Shell station by Home Depot in Seaside or from the Congregational Church of Soquel at 9:30 a.m. sharp. Call for a reservation. Leader: Lynn Bomberger, 375-7777.

Wednesday, March 4

HIKE: GARRAPATA STATE PARK

The first part of this hike follows Soberanes Creek up the wet, narrow canyon through magnificent stands of huge redwoods. The trail crosses Soberanes Creek 7 times before climbing up to the head of the canyon. At the top, the trail becomes stairs to emerge onto the dry, chaparral-covered hillside with panoramic views and (we hope) lots of wildflowers. This rocky ridge is a 1,435-foot rounded grassy peak. After lunch we can take the peak trail out for sweeping views of Monterey Bay, gaining another 300' to the highest point in the park. This strenuous hike is worth the effort for views of the ocean, coastline, and mountains. Bring lunch and water; wear shoes with a tread for the slippery downhill surface. Meet at Sears 41st Ave. at 9:00 a.m. or at the back of the Deerpark Parking Area next to Rio Del Mar Blvd. at 9:15 a.m. \$4 carpool. The trailhead is 6.8 miles south on Hwy. 1 from Rio Road in

Carmel. There are parking pullouts on either side of the highway. We'll start from the sign at the hill side of the highway at 10:15 a.m. Leader: Diane Cornell, 423-5925.

Friday, March 6

HIKE: VEEDER TR/REDWOOD CYN

In spring the Veeder Trail in Garland Park hosts a profusion of wildflowers. Let's see if there are some early ones. We'll meet at the Rio Road Park and Ride at 10:00 a.m. to carpool to the trailhead on East Garzas Road. Our loop hike will be only 4 or 5 miles but is very steep both up and down hill. Bring water and lunch to enjoy at the wildlife pond at the high point of our leisurely-paced hike. Rain cancels. Leaders: Cath Farrant and Mary Dainton, 372 7427.

Friday - Sunday, March 6 - 8

SKI TRIP: CLAIR TAPPAAN LODGE

All levels of skiers welcome, including beginners. Two night ski trip staying at rustic Clair Tappaan Lodge. Historic lodge, hot showers, hot tub, ski rental, communal meals, library, ping pong, etc. www.ctl.sierraclub.org. Opportunities for crosscountry, downhill skiing, sledding, snowshoing, building a snowman, even snow camping. Arrive anytime Friday the 6th, ski all day Saturday, and perhaps part day Sunday, and return late evening Sunday. Make your own reservation at Clair Tappaan Lodge by calling 800-679-6775. (Note: price includes 3 meals per day.) Space is limited; call early. \$10 donation to the Sierra Club is requested. Call the trip leader for more detailed info and directions, equipment needed, etc. Leader: Jukka, nmetsapolku@yahoo.com, 429-8513 between 9:00 a.m. and 9:00 p.m.

Sunday, March 8

HIKE: POGONIP TO WILDER VIA UCSC

We'll wind our way through the Pogonip, stopping at the Koi pond and on through UCSC before crossing Empire Grade into Wilder Ranch. Varied terrain with great views along the whole hike. 10 miles, 900' elevation gain. Dress in layers and bring plenty of water! Carpool and pre-hike sign-up mandatory due to logistics. Call early. Don't forget to set your clock forward!

Sunday, March 8

HIKE: KAHN RANCH

Will the flowers bloom? Steep canyons and trails climbing to ridges with great views make Kahn Ranch a fine addition to Garland Ranch Park in Carmel Valley. Our hike will involve steep climbs of about 600-800 feet, but the pace will be slow and the distance not over 4 miles. We'll look for early spring flowers—Hound's Tongue and Mule Ears have been seen here in past years. Because the leader might be traveling, and access to the ranch is limited, and our permit allows only 15 hikers, you must call before March 7 to reserve a spot. Hard rain cancels. Leader: Mary Gale, 626-3565.

Tuesday, March 10

SENIOR WALK: CARMEL CIRCLE/TOR HOUSE

3-mile loop in Carmel. Reverse of prior walks. Start at Carmel Beach parking lot, walk the scenic tour along the beach, Mission Train Re-



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OUTINGS

serve and back by Mission Ranch. Meet at Sears 41st Ave. before 9:30 a.m. To go direct, take Hwy.1 south to Ocean exit. Turn right, go downhill to Carmello, left on Carmello about 1.5 mi. to beach parking area. Bring snacks. Free parking w/restrooms. Bring lunch, water, \$4 carpool. Bring lunch or eat lunch in downtown Carmel. Leader: Brooke Ewoldsen 476-6188.

Tuesday, March 10
HIKE: JACKS PEAK

Jacks Peak offers quiet forested trails with spectacular views of Monterey, the Bay, and Carmel Valley. 5 1/2 miles with 700' elevation gain. Moderate pace with stops to enjoy flora & fauna. Bring water & lunch. We leave at 9:30 a.m. sharp from the NW corner of Whole Foods parking lot in Monterey. Call for a reservation. Leader: Lynn Bomberger, 375-7777.

Tuesday - Thursday, March 10 - 12
HIKE: MUIR WOODS, MT. TAMALPAIS, MARIN HEADLANDS

Mount Tamalpais is the highest point along the coast between Big Sur and Mendocino. Its silhouette, referred to as the sleeping maiden, is a well-known landmark. European ships sailed

this part of the coast in the mid-1500s, and sailors from a Spanish galleon that was shipwrecked at its feet in 1566 must have hiked the base of the mountain at the very least. The name may come from the Miwok word "tamal" which meant "west" or "coast" and "Pais" which was "hill" or "mountain." We'll stay at the Marin Headlands Hostel which was formerly the army officers' quarters of Fort Barry. A dorm room in the hostel costs \$25.00/night. Bring 1 potluck dish, 2 breakfasts, and 3 lunches for yourself. Carpool leaving Sears 41st Ave. on March 10th at 9:00 a.m. Returning March 12th at 5:00 p.m. Carpool \$10. Call Diane Cornell 423-5925 for reservation info before March 2. Limited to 10 hikers.

Saturday, March 14
HIKE: BIG BASIN

Join me for a 8-10 mile hike in beautiful Big Basin. 1000' elevation gain. Meet at the Santa Cruz County Government Center at 9:00 a.m. Bring water, lunch; dress in layers. Heavy rain cancels. Leader: Pamela Burnham, 915-2475.

Sunday, March 15
HIKE: GARLAND PARK

This will be a 4+ mile hike up to the Mesa via Buckeye and Waterfall Trails, then back via Fern, Mesa, and Lupine Loop Trails. Nice valley views. Trails may be muddy. Meet at Save Mart. Please call leader to reserve space and for meeting time. Bring snack/lunch and water. Rain cancels. Leader: Martha Saylor, 372-9215.

Sunday - Saturday, March 15 - 21
SERVICE TRIP/BACKPACK: ESCALANTE RIVER CANYON.

Join us in our ongoing effort to eradicate Russian Olive from this beautiful red-rock canyon in Utah. We will work with Park Ranger Bill Wolverton to gather and burn slash from previous trips. Meet in Escalante, Utah, on the 15th, caravan to the trailhead and hike in. Four

days of work, one day of hiking in the canyon. Hike out on the 21st. Expect knee- to thigh-deep river crossings, cold nights, mild days and spectacular scenery. Participants need to bring their own gear, food, and heavy leather work gloves. For more information go to: <http://home.comcast.net/~gorgescramble/site/> or contact leader Paul Plathe, 209-476-1498.

Tuesday, March 17
SENIOR HIKE: DE LAVEAGA

We'll walk by Branciforte Creek through redwoods, laurels, and oaks. Some uphill. Meet before 9:30 a.m. at Sears 41st Ave. or at De Laveaga Park by restrooms at 9:50 a.m. Dress for weather. Bring lunch, water, \$2 carpool. Leader: Janet Schwind 425-3845.

Tuesday, March 17
HIKE: PEBBLE BEACH

We'll hike a figure 8 through serene pine forests and open meadows of Pebble Beach. Lunch gives us the option of a Poppy Hills Golf Course sandwich or your own lunch and water. 6 1/2 miles, 850' elevation gain, moderate pace with flora & fauna stops. We leave at 9:30 a.m. sharp from the Safeway parking lot recycle shed on Hwy. 68 in Pacific Grove. Call for a reservation. Leader: Lynn Bomberger, 375-7777.

Thursday - Friday, March 19 - 20
SKI BACKPACK WITH DOGS: PETER GRUBB HUT

Experience the beauty of backcountry skiing with dogs and perhaps even cuddle in a snow cave with them. (Those who don't have dogs, but have a friendly disposition toward them are welcome). Depart Thursday, March 19, 9:30 a.m. from Clair Tappaan Lodge, carpool to Donner Summit Snow-Park at Boreal Exit off Hwy. 80 for overnight parking, then leave from there by skis at 10:00 a.m. The hut is at 7800'. First two miles, 900' elevation gain to Castle Pass, then 250' to hut. Intermediate skiers. Must be able to go up/down slopes with a heavy backpack. Hut is rustic. There is an outhouse, sleeping mattresses in loft, wood stove, elementary kitchen close to the Pacific Crest Trail. Topo map: Norden 7 1/2 quad. If not enough snow we'll hike and snowshoe there. Return Friday the 20th; arrive by sunset to Clair Tappaan. Option to snowcamp close-by on Friday night and arrive back to the lodge on Saturday eve. Note: dogs are allowed in wilderness huts only, not at Clair Tappaan. \$15 donation to the Sierra Club is requested. For more detailed info and equipment list, car-

pooling information., etc. contact trip leader. Make your own reservations for one night stay at Peter Grubb Hut by calling Clair Tappaan Lodge, 800-679-6775. Leader: Jukka, nmetsapolku@yahoo.com, 429-8513.

Saturday, March 21
HIKE: SIERRA AZUL

If we have enough cars, we will do a shuttle from Kennedy Rd. behind Los Gatos over the top of Sierra Azul down to Lexington Reservoir. This is a strenuous hike with 10 miles and 1900' elevation gain, sometimes steep. Meet at 9:30 a.m. at the Santa Cruz County Government Center to carpool. Call Nick for additional information. Leader: Nick Wyckoff 462-3101.

Saturday, March 21
HIKE: EAST GARLAND

We'll do a loop in East Garland. 8 miles and 1000' elevation gain; comfortable pace. Wonderful views and masses of wildflowers, we hope. Bring water and lunch, wear good shoes, optional hiking poles, and sunscreen. Meet at Save Mart at 8:30 a.m. (no leader) or in Mid Valley Shopping Center near WaMu at 8:45 a.m. to carpool. Call to make sure the hike is on. Leader: Anneliese Suter, 624-1467.

Sunday, March 22
HIKE: HENRY COWELL STATE PARK

We'll ramble through the forest on one of the first days of spring. Always a great walk in the woods, Henry Cowell offers a varied terrain for an interesting mix of flora and fauna. Possible stop at the Visitor Center. We'll cross the river twice, water shoes suggested. 8 miles with 1000' elevation gain. Bring food and water. Meet at the Santa Cruz County Government Center at 9:00 a.m. People from Monterey/Carmel welcome. Call to help with carpooling. Leader: John Howerton, 476-4253.

Tuesday, March 24
SENIOR HIKE: UPPER UCSC

This is a newer hike on new trails at UCSC. 3 miles. Call leader for full description. Meet before 9:30 a.m. at Sears 41st Ave. To go direct, call leader. Bring lunch, water, \$2 carpool. Leader: Xavier Ballard, 430-8292.

Wednesday, March 25
HIKE: TORO PARK

If the right amount of rain falls, this park can have the best show of wildflowers (especially lupine) in the area. 9-mile, rugged but supremely-rewarding loop using the Ollason, Toyon Ridge, Coyote Spring, and East Ridge Trails. Coast live oaks, eucalyptus, and California buckeye shade the beginning of the hike. After the ascent, from the crest of the ridge you can see the Tularcitos Ridge and the Santa Lucia Range. To the northeast is Fremont Peak. Along the trail, cows can be seen enjoy-

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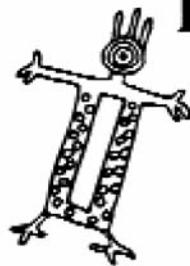
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ing the grasses. Bring lunch and water for a relaxing stop at the top of the peak. Meet at Sears 41st Ave. to carpool (\$3) at 9:00 a.m. or at the back of the Deerpark parking area next to Rio Del Mar Blvd. at 9:15 a.m. We'll park just inside the entrance to Toro Park on the right in the shade for a 9:50 a.m. start. Leader: Diane Cornell, 423-5925.

Saturday, March 28
HIKE: HUCKLEBERRY HILL

A short, but interesting hike up to Huckleberry Hill on the east side of Point Lobos. 5 miles with 600' elevation gain. Bring water, lunch and optional camera for unique views of Point Lobos. Meet at 10:00 a.m. at the Bagel Bakery. Leader: Larry Parrish, 622-7455.

Sunday, March 29
HIKE: BUTANO STATE PARK

Celebrate the spring equinox with a 10-mile hike including magnificent old-growth redwoods, the headwaters of Butano Creek, and the north ridge with its fine views. We should see many wildflowers, including, if we're lucky, a colony or two of the uncommon Calypso orchid (John Muir's favorite wildflower). Meet at 8:45 a.m. at the Santa Cruz County Government Center parking lot to carpool. Bring lunch and water. Call leader Peter Scott, 423-0796, drip@ucsc.edu for details.

Sunday, March 29
HIKE: SALINAS RIVER STATE BEACH

See February 22 for details.

Sunday, March 29
HIKE: TORO PARK

Hike up to Ollison Peak and then down Red Tail Canyon. This 7-mile hike with 1500' elevation gain is a great workout with views of the coast. Meet just outside Toro Park entrance at 9:00 a.m. Take the Portola exit off of Hwy. 68 (about 10 miles from Monterey and 5 miles from Salinas). Bring lunch, water, and wear sturdy shoes. Leader: Steve Legnard, 588-9150.

Tuesday, March 31
SENIOR HIKE: HARVEY WEST

Four miles with uphill climbs (some steep) from Harvey West parking lot by baseball fields. Lunch at the Ranger Station. Bring snacks while hiking. Meet at Sears 41st Ave. before 9:30 a.m. or at the Harvey West parking lot by 9:50 a.m. Bring lunch, water, \$2 carpool. Restrooms available. Leader: Joan Brohmer, 462-3803.

Tuesday, March 31
HIKE: GARZAS CREEK

See February 24 for details. On today's hike we hope to find Checker Lilies.

Tuesday, March 31
PINNACLES BOTANIST HIKE

Let's take advantage of this great opportunity to hike with Pinnacles' botanist, Brent Johnson, on this 11-mile hike. We'll have answers to questions about flowers, vegetation, and plant communities. We'll learn how plants and animals interact, and how to protect and preserve the park's habitat and do restoration activities. This is also the time of year the Talus Cave (over 260 Townsend's long-eared bats) is

open, (happens only twice a year). Bring a flashlight! For information, call a week in advance. Leader: Esperanza Hernandez, 678-1968.

APRIL

Wednesday, April 1
HIKE: MOUNT MADONNA PARK

This park was hunting grounds for the Ohlone Indians and in the 1800s a summer retreat for the cattle baron Henry Miller. It has many interesting trails. We'll hike on trails that wind around through redwoods: Iron Springs, Blue Springs, Rock Springs, and Blackhawk Trails. Pole Line Rd., a continuation of Summit Rd., divides the park in two: one side looking over the ocean and the other side looking over Gilroy. Bring lunch and water for this 8-mile hike. Meet at Sears 41st Ave. at 9:00 a.m. or at the back of the Deerpark parking area next to Rio Del Mar Blvd. at 9:15 a.m. Leader: Diane Cornell, 423-5925.

Friday, April 3
HIKE: OLD COAST ROAD

This unpaved road in Big Sur makes a lovely and long hike. It's 11 miles up and down through fern-lined redwood canyons with views out to the coast and inland to Pico Blanco. We'll shuttle cars to the end point and walk from Bixby Bridge to Andrew Molera. Leisurely pace. Bring lunch and water, meet at the Rio Road Park & Ride at 9:00 a.m. Rain cancels. Leaders: Cath Farrant and Mary Dainton, 372 7427.

Saturday, April 4
HIKE: FT. ORD OPEN SPACE

There may be some wildflowers on this walk starting from the Reservation Rd. entrance. It won't be difficult with 7 miles and 900' elevation gain. Meet at 9:30 a.m. at the Mar Monte exit in Aptos to carpool. Call Nick for additional info. Leader: Nick Wyckoff 462-3101.

Saturday, April 4
WALK: PEBBLE BEACH/ASILOMAR

A 4-mile loop, starting on neighborhood streets and then thru dunes between fairways, out to Point Joe and back along the beach boardwalk. Quiet neighborhood, beach wildflowers, possible wildlife. Meet across from the Fishwife Restaurant at Sunset Drive and Asilomar Blvd., Pacific Grove. Call to reserve a place and for meeting time. Bring snack and water. Leader: Martha Saylor, 372-9215.

Sunday - Friday, April 5 - 10
SERVICE TRIP: CARRIZO PLAIN

This National Monument is famous for open spaces, for abundant wildlife, and for its spring-time wildflowers. Fences significantly restrict the movement of the resident pronghorn antelope, and we will modify and remove fences for their benefit. Welcome hike on April 5, three and a half days of service, and a full day for exploring the monument. Use of accommodations at Goodwin Ranch included. Limited to 12 participants; \$30 covers 5 dinners. For more information, contact leader: Craig Deutsche, deutsche@earthlink.net, or co-leader leader Melinda Goodwater, 408-774-1257, email: mgoodwater@sbcglobal.net.

Sunday, April 5
HIKE: SOBERANES CREEK/ROCKY RIDGE

5-mile loop with 1700' elevation gain. We'll follow the Soberanes Creek Trail into a beautiful redwood grove, then climb steeply to grassy knolls for great views at lunch. Flowers should be out! We'll descend Rocky Ridge with more fine views. Boots recommended; hiking poles helpful. Bring water and lunch. Meet at Rio Road Park & Ride at 9:00 a.m. to carpool. Call for reservation. Leader: DJ Goehring, 277-9908.

Tuesday, April 7
HIKE: POINT LOBOS

Our 6-mile grand loop with minimal elevation gain takes us along tree-clad headland trails with magnificent views. We are certain to see a variety of wildflowers and possibly baby harbor seals. Bring water & lunch. Arrive early, we leave at 9:30 a.m. sharp from Rio Road Park & Ride. Call for reservation. Leader: Lynn Bomberger, 375-7777.

Tuesday, April 14
SENIOR HIKE: PARADISE PARK/RINCON

One of our favorites. We'll walk a fire road to Hwy. 9, cross over to Rincon Trail, then cross back to San Lorenzo River. 4 miles with some steep uphill. Meet at Sears 41st Ave. before 9:30 a.m. To go direct, take Hwy. 9 to Paradise Park entrance (about 1 mi. from River St. & Hwy. 9). Once inside the Park, stay on road to tennis court and follow signs to picnic grounds with parking and restrooms. Lunch at picnic grounds. Bring lunch, water, \$2 carpool. Leader: Pat Herzog 458-9841.

Wednesday, April 22
SENIOR HIKE: TORO PARK

Note: THIS IS A WEDNESDAY HIKE. We'll hike the Ollason Trail and hopefully see some beautiful wildflowers. 3 miles with one uphill section. Meet at Sears 41st Ave. before 9:30 a.m. or at Toro Park next to last parking lot near the restrooms at 10:40 a.m. Toro Park is off East Hwy. 68 between Monterey & Salinas. Bring lunch, water, sit upon, \$4 carpool. Leader: Bev Meschi 475-4185.

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Ventana Chapter

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 Phone: 624-8032 (Santa Cruz Group Phone: 426-4453) Website: www.ventana.sierraclub.org

Chapter Executive Committee

Chapter Chair	Rita Dalessio	16 Via Las Encinas	Carmel Valley, CA 93924	659-7046
Treasurer	Joel Weinstein	140 Carmel Riviera Dr.	Carmel, CA 93923	625-5586
Other Members	Julie Engell	15040 Charter Oak Blvd.	Prunedale, CA 93907	633-8709
	George Jammal	601 Manzanita Ave.	Felton, CA 95018	706-4233
	Susan Van Stirum	26140 Zdan Road	Carmel Valley, CA 93924	659-2091
	Steve Zmak	3200 Crescent Ave.	Marina, CA 93933	883-4459
	Ed Thornton	402 Watson Street #4	Monterey, CA 93940	224-4178
	Nicole Charles	2936 Yorktown Court,	Marina, CA 93933	925-381-1982
	Dale Agron	26122 Carmel Knolls Dr.	Carmel, CA 93923	624-3038
Admin Chair/Sec	Mary Gale	25430 Telarana Way	Carmel, CA 93923	626-3565

Coastal Chair

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Co-chairs	Gudrun Beck	23765 Spectacular Bid	Monterey, CA 93940	655-8586
	Gillian Taylor	52 La Rancheria	Carmel Valley, CA 93924	659-0298

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Chair	Mike Splain	P.O. Box 66882,	Scotts Valley, CA 95067	359-2489
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NC/NRCC Reps

	George Jammal	601 Manzanita Ave.	Felton, CA 95018	706-4233
	Patricia Matejcek	P.O. Box 2067	Santa Cruz, CA 95063	768-8187

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Chair	Harriet Mitteldorf	942 Coral Dr.	Pebble Beach, CA 93953	373-3694
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Alternate	Rita Dalessio	16 Via Las Encinas	Carmel Valley, CA 93924	659-7046

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	Judy Karas,	60 Boronda Lane #7,	Monterey, CA 93940,	372-5762
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Ventana Editor

	Debbie Bulger	1603 King St.	Santa Cruz, CA 95060	457-1036
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Co-chairs	Lois Robin	4701 Nova Dr.	Santa Cruz, CA 95062	464-1184
	JoAnn Baumgartner	P.O. Box 1766	Watsonville, CA 95077	722-5556

Forestry Chair

	Jodi Frediani	1015 Smith Grade	Santa Cruz, CA 95060	426-1697
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Santa Cruz County Group of the Ventana Chapter

Group Office: 1001 Center St., Santa Cruz, next to Actors' Theatre Website: www.ventana.sierraclub.org
 Mailing Address: Sierra Club, Santa Cruz Group, P.O. Box 604, Santa Cruz, CA 95061-0604
 Phone: 831-426-HIKE (426-4453), Fax: 831-426-LEAD (426-5323), email: scsccrg@cruzio.com

Executive Committee

Chair	Aldo Giacchino	1005 Pelton Ave.	Santa Cruz, CA 95060	460-1538
Vice Chair	Kevin Collins	P.O. Box 722	Felton, CA 95018	335-4196
Secretary				
Other members	Kristen Raugust	454 Swanton Road	Davenport, CA 95017	423-8566
	Charles Paulden	415 Palisades Ave.	Santa Cruz, CA 95062	462-3423
	Paul Elerick	1960 Jennifer Dr.	Aptos, CA 95003	688-2304
	Dennis Davie	P.O. Box 651	Capitola, CA 95010	427-2626
	David Kossack	P.O. Box 268	Davenport, CA 95017	427-3733
	Patricia Matejcek	P.O. Box 2067	Santa Cruz, CA 95063	768-8187

Treasurer

	Aldo Giacchino	1005 Pelton Ave.	Santa Cruz, CA 95060	460-1538
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Conservation Chair

	Patricia Matejcek	P.O. Box 2067	Santa Cruz, CA 95063	761-3263
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Forestry Chair

	Jodi Frediani	1015 Smith Grade	Santa Cruz, CA 95060	426-1697
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Outings Chair

	George Jammal	601 Manzanita Ave.	Felton, CA 95018	706-4233
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Transportation Chair

	Paul Elerick	1960 Jennifer Dr.	Aptos, CA 95003	688-2304
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Political Chair

	Gary Lasky	2350 Felt Street	Santa Cruz, CA 95062	476-5702
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Coastal Chair

	Patricia Matejcek	P.O. Box 2067	Santa Cruz, CA 95063	768-8187
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Water Chair

	Ken Reiller	990 Hecker Pass Rd.	Watsonville, CA 95076	728-4046
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MEETING SCHEDULE

Ventana Chaper (Monterey Co.)

Information: 624-8032

Executive Committee:

Last Thursday of the month; Call for meeting place & time.

Conservation Committee:

As needed.
 For dates and times call 655-8586

Santa Cruz Regional Group

Information: 426-4453

Meeting Place: Sierra Club Office, 1001 Center St., Santa Cruz, Suite 11.

Executive Committee:

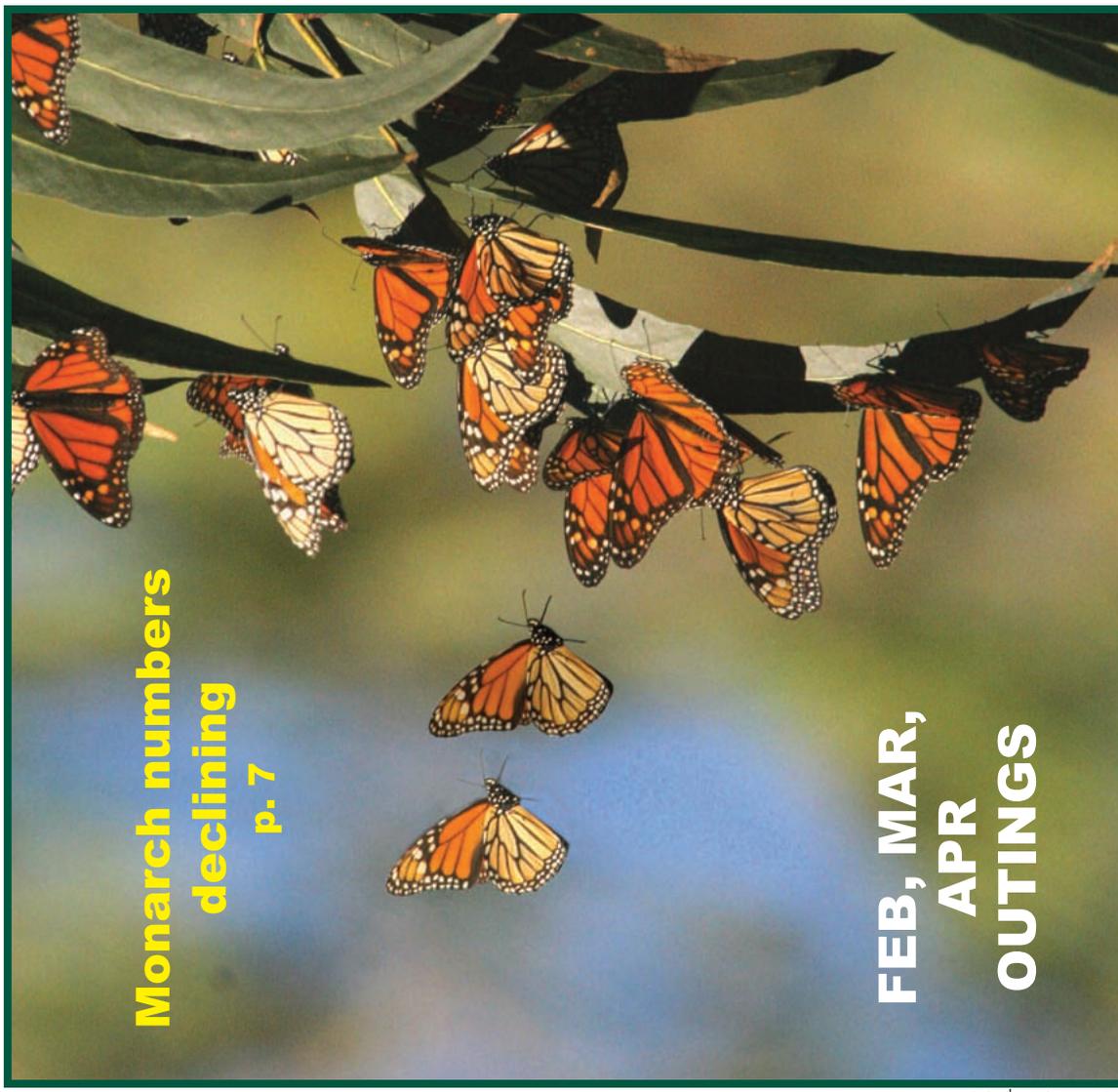
Wednesday, February 11 at 7:00 p.m.
 Wednesday, March 11 at 7:00 p.m.
 Wednesday, April 8 at 7:00 p.m.

Conservation Committee:

Call Conservation Chair for meeting times and dates: 768-8187

The VENTANA

MAGAZINE OF THE VENTANA CHAPTER OF THE SIERRA CLUB



Monarch numbers declining
p. 7

**FEB, MAR,
APR
OUTINGS**

Ventana staff photo

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American Wigeon

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Dabbling ducks such as the American Wigeon feed on the surface of the water, often upending to reach deeper items. These birds winter in our area and summer in Canada.



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