Pig Confinement Technology Risks Deadly Fires

By Craig Volland, CAFO Chair

“They were really squealing” a worker told a TV reporter last July after a fire destroyed a hog confinement north of Wichita, Kansas. The barn, which the industry calls a nursery unit, contained 2500 young pigs and none survived. In 2011 and 2012 there were at least 22 hog barn fires in the US and Canada that killed about 28,000 pigs. During that period five other fires killed 300 dairy cows, 7000 turkeys and over a half million laying hens.

Many of the news stories cite the intensity of these fires and how rapidly they spread. Typically the buildings are completely engulfed by the time the fire fighters arrive, and few animals are rescued. There may be other such fires that go unreported, but it would be hard to miss, even in rural areas, a red-orange horizon in the night or a large plume of smoke during the day.

Barn fires have occurred since the early days of animal agriculture, but the industrialization of animal husbandry in the past several decades has greatly expanded the scale of this tragedy. Huge numbers of pigs, dairy cows and poultry

Big Victories for Sierra Club in Kansas Legislature

By Zack Pistora, Chapter Legislative Director

Last week’s legislative update framed last week’s Capitol events as a big week of defense against bad environmental bills. The defense held strong, with the help of coalition partners and constituent calls to key swing committee votes, and Kansas Sierra Club saw two of its high priority issues (defeating an anti-RPS bill and Corporate Farming legislation) go in its favor. The Kansas Chapter of Sierra Club thanks our members and volunteers for their help in reaching out to their legislators on these issues.

Anti-Renewable Energy Bill (HB 2241) Stalls in House Committee

Last Tuesday, HB 2241 received reconsideration in House Energy and Environment. Because the bill had already had a hearing previously in the session, the Chairman entertained written testimony from confeerees but no oral testimony. Kansas Sierra Club under the coalition group, Kansans for Clean Energy, testified to the negative impacts of reducing our Renewable Portfolio Standards (RPS) on economic investment, jobs, tax revenue for rural Kansas, and of course our environmental progress. The written testimonies included 3 proponents and 15 opponents. The Chairman opened the

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www.kansas.sierraclub.org 888-7-SIERRA

GOING, GOING... GONE?

Sea turtles date back nearly 90 million years and are among the Earth’s oldest surviving species. All six species of sea turtles are protected under the Endangered Species Act. Sierra Club has mounted a major effort to defend and preserve threatened habitats before their inhabitants are gone forever.

Help protect our animal friends; because once they're gone, they're gone. Join Sierra Club now.
Change in Corporate Farming Law Will Raise a Stink

By Craig Volland, Agriculture Chair

Rural residents and landowners in Kansas need to be on high alert. The Brownback Administration is pushing to change the corporate farming laws in Kansas. The Secretary of Agriculture arranged to have bills introduced into the 2013 Legislative session that would eliminate the right of citizens to vote to prevent the entry of huge hog feeding operations and dairies into their county. The Sierra Club, the KNRC, the Kansas Farmers Union and the Kansas Rural Center sounded the alarm, and the bills were referred for more study. We must not let down our guard, though.

Western Kansas is currently home to 21 very large, corporate-owned or licensed hog feeding complexes ranging in size from 20,000 to 80,000 mature hogs each. Soon there will be one with 132,000 mature hogs. These are located in counties that chose not to keep them out. Large concentrated animal feeding operations, especially hog CAFOs, emit noxious odors and require a large amount of water for proper operation.

Odors from hog CAFOs are regulated only by separation distances to the nearest residence. In fact the Kansas Department of Health and Environment has no standard for what constitutes a bad odor. The required separation distance is only 5000 feet no matter if the operation holds 9400 hogs or 132,000.

In addition to providing for animals’ cooling and hydration, a substantial amount of water is needed to reduce odor and to properly recycle wastewater to nearby fields for growing crops. Water is used to wash down the barn floors. Even more water is needed to dilute the waste in the exterior impoundments to achieve a minimal level of treatment.

Due to the high rate of evaporation in western Kansas and the addition of minerals to animal feed, hog wastewater has, over the years, become highly saline. This greatly retards the growth of crops unless it is diluted with copious amounts of irrigation water. If the crops fail for lack of water, the soil will exhibit excess levels of nitrogen.

The high plains aquifer in many areas of western Kansas is being rapidly depleted. Thus it is likely that CAFOs will skimp on the use of water needed for proper operation. Neighboring farmers and nearby town-folk will suffer excessive odors and a reduced quality of life. Worse, their farming livelihood will be threatened by increased competition from CAFOs for limited water supplies.

We believe that existing residents deserve the right to defend themselves from an influx of noxious CAFOs and should not be constrained by unfair decisions made 200 to 300 miles away in Topeka. If the Administration gets its way we will likely see a continuing flight of existing farm families out of the region. I’d hate to be a Kansas legislator when my constituents find out a big hog factory is coming in and they have lost the right to stop it.

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Monarch Butterfly
Population at Record Low

By Elaine Giessel, Park Naturalist

In February 2013, the Kanza Group invited Dr. Orley “Chip” Taylor to present a program on “Monarch Conservation: The Challenge Ahead.” For years, Dr. Taylor, a professor at University of Kansas, has been tracking the shifting populations of the migratory Monarch by coordinating a national butterfly tagging program. His Monarch Watch website includes a wealth of data and educational information about this fascinating insect.

One of the disturbing points made at the meeting was that climate change has real potential to negatively impact Monarchs, both in their overwintering grounds in Mexico and here. Recent research has shown that the return of the Monarchs from Mexico is triggered by temperature changes. And the extended drought in Texas and Oklahoma has decimated both the wildflowers on which the adults depend as they move northward and the milkweed plants on which their caterpillars must feed.

In March, the bad news from Mexican researchers was that the Monarch population has already reached a record low. Once each year since 1994, the Monarch’s population is measured, based on the total acreage occupied by the overwintering colonies in Mexico. The data indicate that the numbers declined 59% from the previous winter and that the population is 5% of its high in 1997.

Scientists are alarmed by the clear downward trend, but the challenges are many. The Monarch cycles through 3-5 generations during the summer breeding season. Only the final generation migrates to Mexico in fall, then returns the following spring to the Gulf Coast. Before they die, the females lay eggs there on a variety of milkweed plants.

Historically, the U.S. corn belt has produced half the monarchs that migrate to Mexico. However, milkweed habitat has been greatly reduced in the region due to weather extremes and agricultural practices. In Mexico, deforestation, ecotourism, and socio-economic pressures have impacted the restricted and unique forest habitat in which they overwinter, making them increasingly vulnerable to storms, drought, fire and disease.

Migration is inherently risky. Monarchs must find appropriate habitat at both ends of the journey, as well as every stop along the way. Like links in a chain, the loss of one habitat component can break the butterfly’s annual cycle.

What You Can Do

The good news is that you can help strengthen the links in Kansas by creating Monarch habitat. Plant a butterfly garden, which includes nectar plants and especially milkweeds, in your backyard, schoolyard or community. Avoid using pesticides in your garden and yard, even the natural “B.t.” which will attack any caterpillars. Join the Monarch Watch Waystation Program for information and seeds: http://www.monarchwatch.org/waystations/. Buy some milkweed plants at the next Monarch Watch fundraiser in Lawrence on May 11: http://monarchwatch.org/openhouse/.


We can make a difference, but the time is now, before we lose more of these amazing butterflies.

P.S. A quick heads up on another important insect issue -- May 19-25 is Emerald Ash Borer Awareness Week. This exotic beetle pest was first discovered in Kansas last summer and will be spreading soon to an ash tree near you! Wyandotte County is already under quarantine by the Kansas Dept. of Agriculture to reduce the likelihood of transporting infected wood to other counties. For the facts on the beetle and how you can slow the spread of the infestation, go to www.emeraldashborer.info.

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Chasing Ice is the story of one man’s mission to change the tide of history by gathering undeniable evidence of our changing planet. Within months of his first trip to Iceland, the photographer conceived the boldest expedition of his life: The Extreme Ice Survey. With a band of young adventurers in tow, James Balog began deploying revolutionary time-lapse cameras across the brutal Arctic to capture a multi-year record of the world’s changing glaciers.

We will be having a Bucket Auction!

Sierra Club Items will be available for purchase!

DATE: Friday, April 19, 2013
TIME: 6:30 - 9:30 pm
LOCATION: Fellowship Hall, College Hill United Methodist Church
2930 E. 1st, Wichita, KS 67214

! Come and have a great night!

All funds collected will be used to develop the group’s outings and general meeting programs.

For information contact Dave Kirkbride: david.kirkbride@kansas.sierraclub.org or (316) 945-0728.

Please Print checks or money orders only
Name: ________________________________________
Address: _____________________________________
City: __________________ State ____ Zip_________

Deadline: April 5, 2013

Number Meal
_______ Regular
_______ Vegetarian
_______ Vegan

Number of People Attending: ____________ X $25.00/ person

Amount Enclosed: ______________

Mail to: Sierra Club Southwind Group, 4114 W. 9th St. N., Wichita, KS 67212-2007
Pig Farm Fires, continued from page 1

have been confined in what are called concentrated animal feeding operations or CAFOs. The underlying technology, as championed by agricultural engineers, is called intensive confinement.

The scale of destruction from these fires is a direct consequence of intensive confinement technology. The most obvious problem is the cramming of so many animals into the buildings in the first place. Since they are being fed rich diets to speed growth, a huge amount of manure is produced. All this manure sitting around generates what is known as manure gas, a noxious mixture of hydrogen sulfide, ammonia, carbon dioxide, methane and odorous organic compounds.

In “deep pit” designs where the manure percolates under the animals for six months or more before being pumped out, the buildup of highly flammable methane is a known explosion hazard. It is unclear why these fires erupt and spread so rapidly in other confinements where the manure is removed more regularly. It is less a mystery why the fires become so intense. Canada’s Farm Animal Councils published a fact sheet for first responders noting that “pigs are highly flammable.”

Hydrogen sulfide gas is highly toxic to both humans and animals, and ammonia is a serious irritant, so it is essential to ventilate the buildings. Carbon dioxide is not normally a toxic gas, but so many animals are housed in these barns that the animals will suffocate for lack of oxygen if the barns are not naturally or mechanically ventilated. This ventilation means that, once a fire gets started, it enjoys ideal conditions to intensify.

These operations are so highly automated that there’s usually no one around when the fire breaks out. When known, the cause is almost always related to sparks from defective wiring, instruments or machinery in the building. Few animals can be saved because the buildings are not designed for them to easily escape, even if there was time. Sows are trapped in tight cages called gestation or farrowing crates, and terrified animals

See Pig Farm Fires on page 7
are very hard to handle. Media stories frequently report that firefighters had to use tankers to haul in water from distant ponds or streams to fight the fires. That’s because hog confinement must be located well beyond the reach of municipal fire hydrants because of strong odors.

Beside fires and explosions, there are many other built-in problems with intensive confinement technology. These are: the heavy use of antibiotics and the evolution of antibiotic resistant bacteria, persistent viral disease among the closely confined animals, heat stress, respiratory disease among workers, lowered property values for neighbors and extensive air and water pollution.

So, how can this go on? The industrialization of meat production has resulted in a strict standardization of pork products and a commodity pricing structure that continually haunts operators of CAFOs and penalizes them for any deviation that might raise costs. Apparently, decent people continue to participate in this system because the industry is able to almost completely objectify the animals, and consumers don’t really know what is going on. If CAFOs were classified as the factories they really are, instead of “farms,” they probably would not be allowed to exist.

The intensive confinement of food animals is a dumb technology devised by some otherwise smart people who are themselves intensively confined within an aging paradigm. After WWII America’s politicians and industrialists decided that we must become the low cost producer to “feed the world.” It was a notion built upon cheap energy, the invention of synthetic fertilizers and pesticides, and the renewed exploitation of America’s vast prairies and grasslands with their untapped aquifers. More money could be made if we ran the grain through animals and sold meat, than if we sold the grain directly. The USDA dutifully parroted the livestock industry and promoted what we now know as the modern American meat diet.

But millions of heart attacks later and after the release of billions of tons of greenhouse gases, the hot-and-dry line is moving up from the Southwest. The aquifers are thinning, and diesel fuel is no longer cheap. Our new climate will become increasingly incompatible with the cramming of thousands of hapless animals into small spaces, and with the production of vast amounts of grain to feed them.

Anyway, the current system is inherently cruel, utterly unnatural and scientifically misconceived. I don’t want any part of it, so I eat less meat and buy free range from farmers I know.

Join us for the
Sierra Club
Annual Fundraiser

Saturday, May 4
6:00-10:00 p.m.

Lenexa Conference Center
11184 Lackman Road
(College Blvd & Lackman)

- Silent Auction - Great Bargains
- Special Exhibitors:
  Talk to businesses working to reduce our impact on climate change.
- Earth Friendly Catering (Hors D’oeuvres)
- Great Local Wines
- Music by Soular (Craig Wolfe & Randy Deutch)

Admission:
Limited seating. Be safe. Purchase tickets in advance!

Individuals: $25 advance or $30 at door
Couples: $45 advance or $50 at door
Sponsors: $100 (or more) Admits 2

Go to www.kansas.sierraclub.org for advance registration.

Now, you can make a difference.
Support Sierra Club’s Work.
See you on May 4th.
Annual Valentine’s Day Hike
By Stuart Bolt

Last year, we had to cancel our Valentine’s Day Hike due to extremely cold weather. This year the weather was a lot better. It was a little cool, running around 30 degrees. There was no wind and the sun was shining. This made for a pretty good event.

Five people, including myself, spent a couple of hours hiking around Chisholm Creek Park. We didn’t see a lot of different types of wildlife to study, but we did have a chance to watch some of the area birds. We, also, had a chance to study animal tracks found around the ponds. Finally, we spent time cleaning up trash around some of the park.

Everyone seemed to have a good time and we had some nice conversation. We plan to have a Valentine’s Day Hike in 2014.

Changes Coming to Kansas Chapter Communications

We will be enhancing our digital presence in the next few months. This will save us money and increase our effectiveness.

Please help us by sending us your email address (or update if you have a new one)

Request that you receive the Planet Kansas by email only!!

Send it to info@Kansas.SierraClub.org
Legislature, continued from page 1

diskussion from committee members on both sides of the bill and two amendments were offered. Rep. Scott Schwab (R) from Olathe proposed an amendment that would have locked the RPS standards in place until Sunflower’s Holcomb II coal-fired power plant was built. That amendment failed 10-8. Another amendment by Rep. Bill Sutton (R) from Gardner was deemed a compromise that would have altered RPS standards based on energy demand of 2013, extended to the year 2030, but not to allow renewable energy to exceed 17.5% of the generation. That amendment also failed. The committee then heard a motion by Rep. Russ Jennings of Lakin to table the bill. In a close 10-9 vote, the bill was tabled, effectively killing the bill for this session. Below is a summary of the votes on tabling HB 2241.

HB 2241 – tabled, on a 10-9 vote.
Representatives who voted to table the bill in our favor were:

Julie Menghini (D) of Pittsburg
Marshall Christmann (R) of Lyons
Gail Finney (D) of Wichita
Tom Moxley (R) of Council Grove
Annie Kuether (D) of Topeka
Steve Alford (R) of Ulysses
Scott Schwab (R) of Olathe
Russ Jennings (R) of Lakin
Ed Trimmer (D) of Winfield
Patricia Sloop (D) of Wichita.

Those who voted against the motion to table (and were against our favor) were:

Sue Boldra (R) of Hays
Bill Sutton (R) of Gardner
Josh Powell (R) of Topeka
Phil Hermanson (R) of Wichita
Dennis Hedke (R) of Wichita
Randi Garber (R) of Sabetha
Ron Highland (R) of Wamego
Charles Macheers (R) of Shawnee
Craig McPherson (R) of Overland Park

The bill would’ve delayed the RPS’s 10% and 15% benchmarks and totally eliminates the 20% goal by 2020.

Check out this story in the Wichita Eagle: Or take a look at this post from our coalition ally, Kimi from NRDC.

Corporate Farming Bills Do Not Pass Committees; Bills Get Referred for More Study.

SB 191 and HB 2404 both got sidetracked last Friday, to the disappointment of Secretary of Agriculture Dale Rodman. These bills, which were planned by the Dept of Ag as a way to remove hurdles to bring large-scale, corporate animal agriculture to Kansas, were both moved by their respective committees to be further reviewed and studied. These actions spared counties from losing their right to vote against a new Concentrated Animal Feeding Operation (CAFO) from being established.

During the deliberation of the bill, the point was brought up that Kansas Farm Bureau, who stood in support of the bill’s action of taking away a county’s right to object to a large-scale animal facility, had a member-approved and platform policy that directly contradicted their legislative position. Read more about the KS Farm Bureau controversy.

Kansas Sierra Club, along with Kansas Farmers Union and Kansas Rural Center, testified to the negative consequences of the bills, referencing the loss of county rights, economic loss of local farmers, and harmful environmental effects.

• SB 191 - Senate Natural Resources voted to send bill to interim committee for more study.
• HB 2404- House Agriculture & Natural Resources voted to send bill to KS Judicial Council for more review of the constitutionality of current corporate farming laws.

These bills would have redefined “agricultural business entity” to allow non-Kansans to own and operate a farm without living on the property. These bills remove corporate farming restrictions and the rights of counties to exempt themselves from a CAFO.

Read more about this story from the Hutch News. And this story from the Kansas City Star.

Resolution on Keystone XL Pipeline Gets Go-Ahead from House

HCR 5014 got passed by a voice vote in the House today, sending the resolution to the Senate to concur.

Kansas Sierra Club has testified that both economic and environmental damage that would occur with allowing the dirtiest oil on the planet to be transported across our national water bodies and wildlife habitat from Canada to the southern tip of Texas. Economically, we pointed out that the Tar Sands pipeline wouldn’t create more jobs, but potentially lose more jobs by spiking up gas prices 10 to 20 cents more per gallon for Midwesterners. According to a Cornell Global Labor Institute report, Keystone’s tar sands (which currently do not go to the global market, but exclusively to Midwest refineries), would go for higher prices now that they would be available on the global market, estimating a cost of 2 to 4 billion dollars to the U.S. economy annually. Environmentally, the Tar Sands project potentially means “game over” for the climate according the top NASA climate scientist, James Hansen.

Other News on Bills We’re Following:

• Sub for HB 2207 – Awaiting its turn to come up on General Orders today or tomorrow in the Senate. The bill closes a loophole that would establish separation distances at the initial point of application, to prevent mobile trailers and pop-up buildings from neighbors to block CAFO construction. While we support better policymaking by closing loopholes, we oppose this legislation because it reduces the ability of neighboring
Residents the ability to enjoy and build upon their property rights without obstruction from the nuisance of a CAFO. We propose that separation distances should be based on property lines, not habitable structures.

- Sub for HB 2051 – Awaiting a new substitute bill number, to be on General Orders in the Senate. This bill got changed into a different substitute bill last Friday in Senate Natural Resources. The original HB 2051 had language about requirements for qualified dam inspections by the Department of Agriculture. Since then, the actions of the bill to dam inspections have been removed from the bill and inserted into HB 2363. The new substitute bill keeps the 20% carryover of water allocations in Multi-Year Flex Accounts. Moreover, the bill keeps creation of limited water transfers for water right holders. Thus, a farmer who does not use their entire water right allocation could transfer up to 4 million gallons of their water right to an oil and gas company for fracking in exchange for money.

- SB 168 – Passed both chambers, but Senate chose to nonconcur on the House passage, thus bringing forward a conference committee. Members include Senators Love, Kerschen, Francisco and Representatives Schwartz, Hoffman, and Victors. SB 168 allows protection from nuisance suits when farmers seek to expand their agricultural activities, both in terms of acres, agriculture units, and scope of activities. We oppose this bill because depending on the level of expansion, broadening agricultural activities to large-scale, corporate style activities should not be immune to nuisance rules that help protect our communities.

- SB 120 – Passed both chambers, the Senate 40-0, and the House 68-51. However, the Senate did not concur with the House passage. A conference committee has been formed with Senators Love, Kerschen, and Francisco. The House will appoint their conferees in the next days. SB 120 creates a voluntary registry for Kansas farmers’ markets for the promotion of farmers markets in Kansas across the state, as well as creates a limited liability protection for farmers’ market sellers.

- SB 212, is on General Orders in the Senate. Likely to be voted on Tuesday or Wednesday. This bill seeks tax credits for equipment used in recycling, storing, and transporting produced “frack” water. The tax credit allows a 25% reimbursement for up to $250 million a company spends. The Kansas Sierra Club opposes SB 212 because we believe that good conservation practices for oil & gas, like recycling frack water for other frack jobs as the bill proposes, should be mandatory anyway and built in as part of the cost of doing business, not a tax credit.

- HR 6015 – On General Orders in the House this week. We expect the bill to be passed. HR 6015 prompts state agencies to collaborate and study the viability and benefits of compressed natural gas as an add-on or alternative vehicle fuel. Kansas Sierra Club supports this study.

**Bills Defeated Means Positive Outcome for Kansas, Much More Work Left To Do**

The defeat of the attacks to reduce the RPS as well as the defeat of the corporate farming bill for this session proves a great stand for environmentalists across Kansas. For now, communities and landowners will continue to gain payments and economic investment through wind projects in our state because of our successful renewable energy goals. For now, communities and farmers will benefit by being protected from having large-scale, environmentally-damaging CAFOs set up shop by will of the Department of Agriculture in Topeka. These are currently the circumstances, but there are certainly efforts by corporate-friendly, non-environmentalists to get their bills passed through next session. Moreover, with our state leaders continuing to support fossil-fuel legislation, such as Keystone XL Pipeline, there is still plenty of room for improvement in attitude and in policy regarding our environment. As advocates and members of the environmental movement, we must continue to take it upon ourselves to help educate our neighbors, our community, and our legislators on the importance of protecting our precious resources and sensitive ecosystems. Thank you for continuing your efforts in the environmental movement and for being part of our Kansas Chapter of Sierra Club.
From Footprints to “Foodprints”

Eating as Though the Earth Matters column

By Judy Carman, M.A.

Remember the saying “Take only pictures; leave only footprints?” I loved that. I remember I was in Rocky Mountain National Park one time back in the ’70’s. I stopped along the road to photograph some beautiful flowers. Along came a park ranger who shouted from his jeep—“Now that’s the way to take ‘em home.”

But these days the word “footprint” has taken on a whole new meaning. Now we must measure the actual SIZE of our footprint. It’s not enough to tread lightly on a mountain path, leaving the lichen and moss undisturbed. From one billion people a hundred years ago to 7 billion today, the thunder of our footsteps is getting louder, much louder.

In a recent article by Christina Pirello entitled “Fork It: Can your dinner save the planet?” we read that each human being used approximately 2,500 calories of energy per day a century ago. Today, she states that worldwide, we now each use about 31,000 calories of energy per day (from food and energy use), and the average American consumes six times that--186,000 calories daily--with our cars, central heat and air, food, refrigeration, heavy use of coal and petroleum, etc.

The GHG emissions were calculated by using a software program known as SimaPro7 Life Cycle Assessment. Compared to the non-vegetarians, here are the results:

- The vegans’ GHG score was 41.7% lower
- Lacto-ovos were 27.8% lower
- Pescos were 23.8% lower
- Semi vegetarians were 20% lower.

The GHG scores were based only on diet—not on their use of transportation, plastic, fuel, home energy, etc. (To read more, Elaine Watson posted information on these findings at Foodnavigator-usa.com on 2-28-13. The findings will soon be published in the American Journal of Clinical Nutrition.)

Health Benefits:

Interestingly, the study also looked at the health of the participants. They found that of all the groups, the vegans had the lowest risk of cardiovascular disease, cancer, and diabetes. This has been confirmed, of course, by many other studies. This too can lower our footprint, since good health allows us to be more active participants in change. Plus, we would contribute far less to the pharmaceutical industry which causes tremendous amounts of waste and pollution.

Lindsay Wilson draws the same conclusion regarding GHG emissions in “Why vegans have small carbon foodprints,” (posted on Onegreenplanet.org on 2-28-13) and a related article “3 Strategies to slash your foodprint,” (posted on Shrinkthatfootprint.com). She bases her figures only on food eaten and food wasted. She does not include transportation,

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storage of food, cooking or land use. If she did, her figures would be even more dramatic with vegan eaters having a much smaller foot or footprint.

Editor’s note for the following: The term t CO2e stands for tons of the equivalent of a greenhouse gas that is equivalent to that tonnage of CO2. Here are some examples:

- carbon dioxide (CO2) = 1 CO2e
- methane (CH4) = 19 CO2e
- nitrous oxide (N2O) = 281 CO2e
- hydro fluorocarbons (HFCs) = 500-4000 CO2e
- perfluorocarbons (PFCs) = 5000-8000 CO2e
- sulfur hexafluoride (SF6) = 21,682 CO2e

She found an Average American’s diet has a footprint of around 2.5 t CO2e per person each year. For a Meat Lover this rises to 3.3 t CO2e, for the No Beef diet it is 1.9 t CO2e, for the Vegetarian it’s 1.7 t CO2e and for the Vegan it is 1.5 t CO2e.” Her “Carbon Intensity of Eating” chart is reproduced below. This and her “Foodprints by Diet Type” charts can be seen in color on her Shrinkthatfootprint.com website.

The above calculations left out the destructive factors of transportation of animals and carcasses, storage and refrigeration of enormous quantities of animal products, land used to grow these animals, water and air pollution from farms, and deforestation and desertification caused by raising animals for food just to name a few. Again, the plant-based vegan diet eliminates these factors and lowers one’s foodprint and footprint even more.

An analysis of the herbicides for food

In addition to all those factors, the list of ways that a vegan diet contributes to lowering our footprint just keeps growing. Roundup, for example—this infamous herbicide contains glyphosate, (as do many other herbicides). Lucia Graves in a Huffington Post article entitled “Roundup: Birth Defects Caused By World’s Top-Selling Weedkiller, Scientists Say,” reports that Earth Open Source, a non-profit group researched studies on glyphosate in the U.S. and three other countries. Open Source found that there are serious problems associated with its use in all four countries.

Argentina, for example, is using the chemical weed killer on GMO Roundup Ready soy which covers half of Argentina’s cultivated land. Not long after the intense use of this poison began in the 1990’s nearby residents began experiencing much higher rates of cancer, birth defects, animal deaths, and ironically, loss of crops. The Defense Ministry banned the planting of GMO soy on its own lands several years ago. Also environmental lawyers attempted to get the entire country to ban glyphosate but have so far not been successful.

A report was released in 2010 showing that in La Leonesa in Argentina, children’s cancer rates tripled in the first decade of 2000, and birth defects quadrupled. These increases have been attributed to the widespread use of these toxic herbicides.

With regard to U.S. crops, Monsanto states that 89% of soybeans in this country in 2010 were Roundup Ready soybeans. That doesn’t count the rice, corn and other crops that are genetically modified. Since these crops are designed to be immune to Roundup herbicides, farmers can spray more herbicides than ever because it only kills the weeds and not the GMO plants.

How does the GMO crisis relate to a vegan, plant-based diet? After all we’re talking about growing plants here. The problem with regard to the subject at hand is that most of these GMO soybeans, corn, rice and other grains are being raised to feed animals. Therefore, if we stopped consuming animal meat, eggs, and dairy products, we would have a huge impact on the GMO invasion. Not only that, but chances are very good that we would also be protecting our own bodies by not consuming animals who are harboring GMO toxicity in their meat and dairy products.

In the past we were careful where we stepped on our precious earth home, careful not to disturb the tender flowers; but our collective footprints have become so destructive now and in ways we never could have imagined 100 years ago, that each one of us must take action. We can objectively assess what we personally are doing. By committing to a plant-based, vegan diet, we can have a measurable and powerful influence on healing the earth, healing our own bodies, showing compassion for the billions of suffering animals raised for food, cleansing the air we breathe and the water upon which all life depends, restoring wilderness for wildlife, and blocking the progress of the chemical giants that are poisoning the earth. Now that’s the kind of footprint and foodprint we all want to leave.

And to celebrate, here is a recipe for:

Vegan Southwestern Non-GMO! Corn Casserole (from www.upc-online.org)

Ingredients

- 2 tablespoons corn oil
- 4 cups fresh corn (about 6 ears)
- 1 red bell pepper, seeded and chopped finely
- 2 jalapeños, chopped finely
- 1 cup coconut milk
- 1/4 cup cornstarch
- 1/4 cup cornmeal
- 2 tablespoons pure maple syrup
- 1 cup finely chopped scallions
- 1/4 cup finely chopped cilantro
- 1 teaspoon salt & 1/4 teaspoon cayenne

Directions

Preheat the oven to 350°F and lightly grease an 8-inch square baking or casserole dish. A cast-iron pan would work here too (in fact, to cut down on dishes, you can sauté the corn in a cast-iron pan and later use it to bake the batter).

Sauté the corn, bell pepper, and jalapeños with corn oil in a large skillet for 10 - 12 minutes, stirring occasionally. The corn should be very lightly browned. Meanwhile, stir together the cornstarch and coconut milk until the
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Landscapes
By Randy Steil, Owner of Randy’s Lawn Service

The world is a combination of people, animals, and nature. What gift we are given to feel the joy of the land every day. The land, oceans, and rivers are more than just physical entities they touch our human soul. We, as humans, try to understand life challenges, in which we develop our own answers. The landscape is a place where life itself presents an understanding to each of us. Nature is always changing to present a majestic experience for each person. Some people observe nature through walking in the Park, boating on the water, camping and fishing, or just an old fashion picnic.

How can we keep this landscape as natural as possible and enjoy the beauty? Most people in the metro area of cities have lawns and small gardens. Landscaping is not applying tons of chemicals on the lawn to make it green. Most products on the market today contain various chemicals. If you use these products, please adhere to the safety precautions. Myself, I do not use pesticides, I use organic fertilizers. These fertilizers are made of fish by-product and are safe for children, pets, and the environment.

When people talk to me about their landscape, I ask them to describe what theme interests them, then develop that into a mental picture. I suggest that your lawn is the place that belongs to you, a place between you and nature, where there is beauty, understanding, and relaxation. Once your lawn is developed, then you can meditate with a cup of coffee, morning paper, and the sounds of nature.

So you have your picture. What next? Hard work. Nature has provided the landscape, but the condition of the soil composition needs to be evaluated for a soil analysis. Once the soil has been analyzed, then organic fertilizing can begin.

Randy Steil is owner of Randy’s Lawn Service.
www.randyslawnservice.net.

Foodprints, continued from page 13

cornstarch has mostly dissolved.

When the corn and the peppers are ready, transfer 2 cups of them to a blender or food processor. Add the coconut milk and cornstarch mixture, and pulse about 20 times, until the mixture is mostly pureed but not completely smooth.

Transfer to a large mixing bowl and mix with the remaining corn, cornmeal, maple syrup, scallions, cilantro, salt, and cayenne.

Pour the batter into a baking dish (or your cast-iron pan) and bake for 40 minutes. Let cool for about 10 minutes before slicing and serving.

© 2013, Judy Carman, M.A., Author of Peace to All Beings: Veggie Soup for the Chicken’s Soul, Co-author of The Missing Peace: The Hidden Power of our Kinship with Animals and owner of a truck and a car powered by used veggie oil. circleofcompassion.org, peaceforallbeings.com.

Poems By Duane L. Herrmann

Duane Herrmann grew up a fifth generation Kansas farmer who writes a little on the side. Duane’s work has been published in Little Balkans Review, Midwest Quarterly and others.

REJOICING

It was exhilarating to pull nourishment up, up, up into every pore and member of my being.

The rain fell and I rejoiced, it had been a hot, dry time and the rain was wonderful!

I watched moving things inside their place and felt pity for their oblivion.

I danced as the rain splashed down and thanked God in His Glory, was ever a life more blessed than I?

Lightening flashed and I was not afraid, the wind blew and I reached out: we were one in the wonder of the storm.

Soon it was over and I contentedly soaked in the moisture all around. How good it is to be a tree!

FOUND

Hills that are passed, trees ignored, and streams become real when walked, hiked, climbed for adventure of a cultivated kind on an old farm overgrown and rediscovered
centuries after first tilled on an industrial scale. Kansas: name taken from a people expelled, center of burning now circumference.

ANCIENT WATER

Ancient water collected over eons deep, deep down below the soil used now for decades to irrigate water-needy crops: wheat, milo, and more. Might there be someday another crop more suited to this land? Isn't this just one more feature of "use-it-up-there-is-no-future" irresponsible mentality?

LOST ROAD

After the war of 1812, not the European one, the white man's hand cut up the land and gave this piece to a widow of the war. The natives who called this, "home," had been removed never to return. Several owners later it was first farmed. Decades more and a family stayed and made the farm succeed, then my parents bought it and now a part is mine. Despite my childhood here surprises still await, though I knew about the well it was the road, in the side of the hill, that astonished me. Nearly erased by erosion trees now hide what it once was a century ago, but - who made it and - where does it go?

HIDDEN IN PLAIN SIGHT

Hills overgrown with trees no evidence is visible of civilization and yet, hidden deep within the mounds lie remains of a great and mighty culture unknown to later generations of conquerors and conquered. Secrets of the sun and stars embedded and acknowledged in their observatory forty-eight units of cosmic intelligence and knowledge: now swept away and obliterated.
Chapter & Group Leaders

Groups are the local body of the Kansas State Chapter

Chapter Executive Committee
Officers, Committee Chairs
*Elected ExCom member, **Appointed ExCom member, ***Group Representative to Chapter, ****Officer/Committee Chair

Yvonne Cather*, Chair, Council Delegate, (316) 522-4741, yvonne.cather@kansas.sierraclub.org
Chris Cardinal*, Vice-Chair, (785) 550-2432, ccardinal@gmail.com
Tom Kneil***, Secretary, (316) 744-1016, Chapter Group Rep, thomas.kneil@kansas.sierraclub.org
Scott Smith****, Treasurer, (785) 539-1973, wizard13@cox.net
Stuart Bolt*, ExCom Member, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
Dolores Daniels*, ExCom Member, (913) 621-7227, daniels_dolores@yahoo.com
Anita Frank****, Topeka Chapter Group Rep, (785) 273-5305, afrank16@cox.net
David Kirkbride*, Outings Chair, (316) 945-0728, david.kirkbride@kansas.sierraclub.org
Craig Lubow*, Conservation Co-Chair, Global Warming Chair (913) 299-6620, craig.lubow@kansas.sierraclub.org
Richard Mabion*, Environmental Justice Co-Chair, Education Chair, (913) 481-9920, rmabion@sbcglobal.net
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Duane Schrag**, Conservation Co-Chair, (785) 263-4002, schrag.duane@gmail.com
Joe Spease*, Legislative Chair, (913) 492-2862, spease4kc@everestkc.net
Gary Anderson****, PAC Treasurer, (785) 246-3229, gjanderson1963@gmail.com
Elaine Giesseel******, Wetlands and Water Quality Co-Chair, (913) 888-8517, elaine.giesseel@kansas.sierraclub.org
Bill Griffith****, Energy Chair, (913) 772-8960, bill.griffith@kansas.sierraclub.org
Craig Volland****, CAFO Chair, Trade Chair, Agriculture Chair, (785) 273-5305, afrank16@cox.net
Craig Wolfe*, Webmaster, Newsletter Editor, Communications Coordinator (913) 299-4443, info@kansas.sierraclub.org

Spring - 2013

Flint Hills Group (Manhattan Area)
Carol Barta*, Chair, Newsletter Editor, Program Chair, (785) 410-8608, snowsage54@hotmail.com
Scott Smith*, Treasurer, Chapter Group Rep, (785) 539-1973, wizard13@cox.net

Kanza Group (Kansas City)
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Kanza con’t)
Frank Drinkwine*, Fundraising Chair, (913) 385-0385, frank.drinkwine@kansas.sierraclub.org
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Mike Miller*, Conservation Co-Chair, Membership Chair, Air Quality Chair, (913) 362-2600, mrmiller1@mindspring.com
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Nancy Kirk**, ExCom Member, (785) 234-8806, nak8842@sbcglobal.net
Paul Post*, Membership Chair, Outings Chair, (785) 354-1972, paulpost@paulpost.com

Wakarusa Group (Lawrence)
Jason Hering*, Chair, (785) 341-4911, jasonforjustice@gmail.com
Lynate Pettengill*, ExCom Member, (785) 331-0625, LynatePettengill@yahoo.com
Carolyn Binn*, Treasurer, (785) 841-3238, carolynbinn@sunflower.com
Steve Lopes*, Secretary, (785) 842-7137, slopes3688@aol.com
Susannah Neal*, ExCom Member, (785) 760-6633, susannahneal@sunflower.com
General Meetings

General public is welcome to attend

Kanza Group (Kansas City)
April 9, 6:30 pm
Animal Factories: Latest Poster Child for Dumb Technology
6:30 pm - Come early, and we will have goodies, along with good conversation followed by our program.
7:00 pm - Craig Volland, our Kansas Chapter CAFO Chair, will explain how the intensive confinement of animals is an inherently flawed technology and comparable to previous such examples as asbestos and chlorine chemistry.
Where - Overland Park Lutheran Church, 7810 W. 79th St. 8 blocks west of Metcalf at Lowell. Park on north side.
Contact - Craig Wolfe, (913) 299-4443, info@kansas.sierraclub.org

Kanza Group (Kansas City)
May 4, 6:00 pm.
Kanza Group Annual fundraiser
See details on page 8
Location: Location: Lenexa Conference Center, 11184 Lackman
Directions: www.kansas.sierraclub.org/Auction/AuctionMap.jpg
Contact - Craig Wolfe, (913) 299-4443, info@kansas.sierraclub.org

Kanza Group (Kansas City)
June 11, 6:30 pm.
Coming Soon to Your Neighborhood --- the Emerald Ash Borer!
6:30 pm - Come early, and we will have goodies, along with good conversation followed by our program.
7:00 pm - This exotic beetle is decimating ash trees across the Midwest, arriving in Wyandotte Co., KS, just last summer. It should reach Johnson and Leavenworth Counties soon. No ash tree is safe! An expert on the borer will tell us what we can expect and what we might be able to do.
Where - Overland Park Lutheran Church, 7810 W. 79th St. 8 blocks west of Metcalf at Lowell. Park on north side.
Directions at www.kansas.sierraclub.org/kanzadirections.htm.
Contact - Craig Wolfe, (913) 299-4443, info@kansas.sierraclub.org

Southwind (Wichita)
April 19, 6:30 pm.
Fourth Annual Sierra Club Southwind Group Earthday Banquet and Auction
For this year, we will be presenting the movie, Chasing Ice. Chasing Ice is the story of one man's mission to change the tide of history by gathering undeniable evidence of our changing planet. Within months of his first trip to Iceland, the photographer conceived the boldest expedition of his life: The Extreme Ice Survey. With a band of young adventurers in tow, James Balog began deploying revolutionary time-lapse cameras across the brutal Arctic to capture a multi-year record of the world's changing glaciers. In addition, we will be having a Bucket Auction! Sierra Club Items will also, be available for purchase.
Location: Fellowship Hall, College Hill United Methodist Church, 2930 E. 1st, Wichita, KS 67214.
All funds collected will be used to develop the group's outings and general meeting programs. Look in this newsletter for a flyer with more information and reservation form.
Deadline for reservations: April 5, 2013.. Dave Kirkbride, (316) 945-0728, david.kirkbride@kansas.sierraclub.org

Southwind (Wichita)
May 10, 6:30 pm.
Ecotourism Trade Along the Tambopata River in Peru
6:30 pm - After announcements, pizza and pop are available.
7:30 pm - Jim Griggs will present another exciting program on his recent trip to the Tambopata Rain Forest in Peru. A one hour program featuring Jim's photography and short video clips from a tributary of the Amazon will be featured. Peru is an amazing country, home to more bird species than all of North America. Jim's traveling companion on this trip last May was none other than Bob Gress. How could it be more fun? Join us for a fun and beautiful presentation.
Where - Great Plains Nature Center, 29th St. N. & Woodlawn, Wichita.
Contact: Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org

Topeka
April 23, 7:00 pm.
Global Climate Change and its Relation to Potential Energy and Environmental Policy in Kansas
6:30 pm - “Meet and Greet and Gather”
7:00 pm - Johannes Feddema, Professor and Chair of the Dept. of Geography at KU will discuss his work with global climate change. He recently testified before the Joint KS House and Senate committee on Energy and Environment and also presented at the Water Symposium at KU. Join us for an educational evening.
Where - Unitarian Universalist Fellowship, 4775 SW 21st Street.
Questions - Gary Anderson at (785) 246-3229; gjanderson1963@gmail.com.

Topeka
May 28, 7:00 pm.
Maggie Horigan, Research in Nicaragua on Environmental Justice Issues
6:30 pm - “Meet and Greet and Gather”
7:00 pm - Maggie will share with us about her research focused on the societal repercussions that overfishing and subsequent species loss have taken on the community in Nicaragua. Join us for an educational evening.
Where - Unitarian Universalist Fellowship of Topeka, 4775 SW 21st St.
Questions - Gary Anderson at (785) 246-3229; gjanderson1963@gmail.com.

Wakarusa Group (Lawrence)
Discussion on Pricing Carbon
April 7, May 5, June 2. 11:30 am.
We'll listen to a national conference call, then plan what to do locally.
Contact - Lynate Pettengill (785) 331-0625, LynatePettengill@yahoo.com
Sierra Club Outings

General public is welcome to participate

Below is the combined list of all outings by the Kansas Chapter and Groups. The number in [brackets] indicates the area of the outing as shown on the map. Please contact the outing leader listed after the description by phone or e-mail before attending any of these activities. For trips requiring physical exertion, leaders need to know your ability and condition. Sierra Club policy also requires participants to sign a liability waiver or acknowledgement of risk prior to departing the trailhead.

Outings organizers have a webpage for the latest outings updates at: http://www.meetup.com/KC-Sierra-Club-Outings:

Kanza. Michael Reed, mereed@runbox.com

[1] Apr 13. 2:00 pm. Green Fair at TSCPL 2-5PM
Sierra Club table at the Topeka library Annual Green Fair. Topeka. Gary Anderson, (785) 256-3229; gjanderson1963@gmail.com

We’ll spend 3 nights in a remote, rugged, and scenic part of Arkansas. Kanza. Michael Reed, mereed@runbox.com

Music & fried catfish at Emma Chase Cafe on Friday night, backcountry hike at the Tallgrass Prairie National Preserve on Saturday. Kanza. Renee Andriani, (913) 488-4445, randri@kc.rr.com

[2] Apr 20. 9:00 am. 12th Annual River Trash Round Up
Not a Sierra Club Event. Meet at the Lawrence Dumont Check-In Station. Wear sturdy shoes and clothes that can get dirty. Wear sunscreen, a hat and insect repellent. You may bring tools such as rakes or nets for grabbing trash. Bring water or something to drink. Enjoy a post-clean up cookout with Cargill at Lawrence Dumont Stadium. For More Information: Libby Albers, WATER Center, 316-350-3386, lalbers@wichita.gov or contact Stuart Bolt to check if the Sierra Club will be cleaning as a group. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org

[2] Apr 20. 7:30 am. Highway Cleanup
Cleanup our I-70 stretch along with Get Down & Get Dirty Keep America Beautiful event. Topeka. Gary Anderson, (785) 256-3229; gjanderson1963@gmail.com

[2] Apr 25. 9:00 am – 2:00 pm. Meritrust Presents: Earth Day

[2] Apr 27. 9:30 am – 4:00 pm. Earth Fest 2013
Not a Sierra Club Event. Sponsored by Earth Spirit Kansas. The event is at Herman Hill Park, 101 East Pawnee. The event is free and open to the public. The Sierra Club has had a long-standing tradition of having a booth at this event. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org

[4] Apr 27. Tour Bothwell Lodge State Historic Site, Sedalia, MO
Tour this castle-like building built out of native rock from the estate grounds. The lodge was constructed over three natural caves and is an example of the Arts and Crafts style of the early 20th century. We will then tour the grounds including short Stonyridge Trail which meanders along a wooded slope. After lunch (bring your own) we will hike the three mile Radiant Trail which surrounds the property. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net

[1] Apr 27. 10:00 am. Bowersock Mills & Power tour
Take a tour of our largest Hydropower Facility. Topeka. Gary Anderson, (785) 256-3229; gjanderson1963@gmail.com

This will be a round trip bike ride that will start at the Corporate Woods trail head and go east on the Indian Creek Trail and will cross into Missouri. From there, we will connect to the
Committee Meetings

Kanza Group
(Kansas City)

Executive Committee
Apr 25, May 23 - 7:00 pm
Bob Sommer, (913) 681-5211, rsommer@kc.rr.com

Joint Action Committee
Apr 25, May 23 - 7:00 pm,
Conservation, legislative, and political
Craig Lubow, (913) 299-6620, craig.lubow@kansas.sierraclub.org

Southwind Group
(Wichita)

Executive Committee - 6:00 pm
Apr 7, May 5
Location: Bolt Residence
Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org

Conservation Committee
TBA - 6:30 pm
Bruce Fuelling, (316) 682-0340, bfuelling@cox.net

Wakarusa Group
(Lawrence)

Executive Committee Planning
Contact Jason Hering, (785) 341-4911, jasonforjustice@gmail.com

Conservation Committee
Contact George Brenner, (785) 393-3828, GBrenner@sunflower.com

Greenway Trail and will end at Blue River Road. We will eat lunch at the park by lakes close to Blue River Road. Total time for this outing will be approximately 4 hours. Kanza. John Haynes, (913) 742-0100, jhaynes5018@everestkc.net

Tour Lost Valley Hatchery which is the largest warm water state-owned hatchery in Missouri and one of the ten largest in the nation. The hatchery building houses a visitor center which includes a 12,700 gallon aquarium. Bring a sack lunch to eat on the trail at the state park. $5 donation requested. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net

A casual walk through a variety of habitats. 3-3.5 miles. $2 donation requested. Kanza. Michael Reed, mereed@runbox.com

Cycle 25 miles of rolling hills & rural settings from Blue Springs to Powell Gardens. We will lunch at Café Thyme, followed by a hike through the gardens. A trailer for bikes and car rides will be available for our return. $5 donation requested. Kanza. Paul Gross, (816) 985-2339, wildwoodp@hotmail.com

Join us on a less traveled stream within a 4-6 hour drive from KC. Enjoy the campfire as we camp along the river Saturday night. Some experience required. Canoe rental may be available, depending on the river. Water conditions at trip time will determine the river. Kanza. Terry DeFraties, (913) 385-7374, theerustbucket@aol.com

Hike through a native prairie, into a savannah and on to woodlands. The Bee Trace Peninsula contains the 384-acre Bee Trace Natural Area offering impressive views of these different terrains plus views of the lake. Bring a sack lunch to eat on the trail. $5 donation requested. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
Calendar of Events

Summary of all Kansas Chapter Events

Below is a listing of all General Meetings (GM), Outings (Out), and Committee Meetings (CM) for the Kansas Chapter and Groups. For specific information, see General Meetings page 17, Outings page 18, and Committee Meetings page 19. For the latest update on events, go to www.kansas.sierraclub.org/EventsSearch.htm.

GM Apr. 6:30 pm. No General Meeting. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
Out Apr 5-7. Backpack Hercules Glades Wilderness, Taney County MO. Kanza. Michael Reed, mereed@runbox.com
GM Apr 6. 11:30 am. Discussion on Pricing Carbon. Wakarusa. Lynate Pettengill (785) 331-5556, LynatePettengill@yahoo.com
CM Apr 7. 6:00 pm. Executive Committee. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
Out Apr 13. 2:00 pm. Green Fair at TSCPL 2-5PM. Topeka. Gary Anderson, (785) 256-3229; gjanderson1963@gmail.com
Out Apr 18-21. Backpack Ozark Highland Trail (Ozone to Big Piney), north central AR. Kanza. Michael Reed, mereed@runbox.com
GM Apr 19. 6:30 pm. Fourth Annual Sierra Club Southwind Group Earth Day Banquet and Auction. Southwind. Dave Kirkbride, (316) 945-0728, david.kirkbride@kansas.sierraclub.org
Out Apr 19-20. Flint Hills. Camping at Chase State Lake, KS. Kanza. Renee Andriani, (913) 488-4445, randri@kc.rr.com
Out Apr 20. 7:30 am. Highway Cleanup. Topeka. Gary Anderson, (785) 256-3229; ganderson1963@gmail.com
Out Apr 20. 9:00 am. 12th Annual River Trash Round Up. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
GM Apr 23. 7:00 pm. Global Climate Change and its relation to potential energy and environmental policy in Kansas. Topeka. Gary Anderson, (785) 256-3229; ganderson1963@gmail.com
Out Apr 25. 9:00 am – 2:00 pm. Meritrust Presents: Earth Day Kansas. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
CM Apr 25. 7:00 pm. Conservation and Joint Action Committee. Kanza. Craig Lubow, (913) 299-6620, craiglubow@kansas.sierraclub.org
CM Apr 28. 7:00 pm. No Conservation and Joint Action Committee. Kanza. Craig Lubow, (913) 299-6620, craiglubow@kansas.sierraclub.org
CM Apr 29. 7:00 pm. Conservation and Joint Action Committee. Kanza. Craig Lubow, (913) 299-6620, craiglubow@kansas.sierraclub.org
CM Apr 29. 7:00 pm. Conservation and Joint Action Committee. Kanza. Craig Lubow, (913) 299-6620, craiglubow@kansas.sierraclub.org
Out Apr 27. 10:00 am. Bowersock Mills & Power tour. Topeka. Gary Anderson, (785) 256-3229; ganderson1963@gmail.com
Out Apr 27. Tour Bothwell Lodge State Historic Site, Sedalia, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
Out Apr 27. Tour Bothwell Lodge State Historic Site, Sedalia, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
Out Apr 27. Tour Bothwell Lodge State Historic Site, Sedalia, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
Out Apr 29. 6:00 pm. Executive Committee. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
GM Apr 30. 6:00 pm. Kanza Group Annual Fundraiser. Kanza. Craig Wolfe, (913) 299-4443, info@kansas.sierraclub.org
CM May 5. 6:00 pm. Executive Committee. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
GM May 10. 6:30 pm. Ecotourism Trade Along the Tambopata River in Peru. Southwind. Stuart Bolt, (316) 682-4722, stuart.bolt@kansas.sierraclub.org
Out May 11. Lost Valley Fish Hatchery and Harry S Truman Lake State Park, Warsaw, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
CM May 11. 6:30 pm. Chapter EsCom Meeting. Chapter. Yvonne Cather, (316) 522-4741, yvonne.cather@kansas.sierraclub.org
CM May 13. 7:00 pm. Conservation and Joint Action Committee. Kanza. Craig Lubow, (913) 299-6620, craiglubow@kansas.sierraclub.org
CM May 13. 7:00 pm. Conservation and Joint Action Committee. Kanza. Craig Lubow, (913) 299-6620, craiglubow@kansas.sierraclub.org
Out May 15. Long Branch State Park, Macon, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
Out May 15. Lost Valley Fish Hatchery and Harry S Truman Lake State Park, Warsaw, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net
GM May 23. 7:00 pm. Environmental and justice issues in Nicaragua. Topeka. Gary Anderson, (785) 256-3229; ganderson1963@gmail.com
Out Jun 8-9. Overnight canoe/kayak trip. . Kanza. Terry DeFrates, (913) 385-7374, theerustbucket@aol.com
Out Jun 8. Bike Ride to Powell Garden, Kingsville, MO. Kanza. Paul Gross, (816) 985-2339, wildwoodp@hotmail.com
GM Jun 11. 6:30 pm. Coming soon to your neighborhood --- the emerald ash borer. Kanza. Craig Wolfe, (913) 299-4443, info@kansas.sierraclub.org
Out Jun 15. Long Branch State Park, Macon, MO. Kanza. Eileen McManus, (816) 523-7823, eileen4250@sbcglobal.net