

TURNING THE TIDE

Volume 1 Number 7 September 2008

Indian River County Pollution Reporting Hotline # 226-1888

View past issues on the IRC stormwater website at www.ircgov.com/stormwater

IRC citizens are learning and implementing proper outdoor chemical applications, revised disposal methods, and erosion control techniques to avoid contaminating all water that runs off their properties. Property water runoff from urban areas and construction activities are the most significant pollution contributors. Through self-awareness, implementing new behaviors, motivating others, and reporting waste disposed into storm drains and water bodies, IRC citizens will “Turn the Tide” of polluted property water runoff from reaching our oceans.

Where is the “Away place?”

If your perception has always been that rain is the natural process of rinsing pollutants away, where do you think that “away” place is?

Our water in Indian River County “sheds” into the Indian River Lagoon. The area of land that drains into a specific waterbody is called a watershed. As stewards of the Indian River Lagoon Watershed, we want to reduce the amount of water running off our properties and its potential of carrying fertilizers, pesticides, pet waste and any other contaminants.

In the same form as pollution enters the storm sewer system it is released into our waterways and ocean. Pollution enters the system by way of swales and stormdrains, leading to canals and outfall pipes. The polluted water is then released unfiltered and untreated into the Indian River Lagoon and Atlantic Ocean.

You can help to keep our waters clean by reporting pollution activities in *your* Indian River Watershed. Report when you see the action or result of anything other than pure clean water being poured/released onto a non-grass surface, such as a street, side walk, or parking lot, with the potential for it to lead to a stormdrain or swale. A few examples include:

- wastewater piping either mistakenly or deliberately connected to the storm drains
- effluent from septic tanks
- car wash, laundry, industrial wastewaters
- improper disposal of auto toxics (e.g., used motor oil)
- soil, rocks, or debris blown or eroding off a construction site
- portolets placed on a curbside (should be 10’ from curb)
- grass cuttings deliberately blown by a mower into the street

Join your neighbor in Keeping Indian River beautiful,
Diane Wilson, IRC Stormwater Educator

In Indian River County

**REPORT THE POURING or RELEASE
of ANY SUBSTANCE* in the ENVIRONMENT**

226-1888

www.IRCgov.com/STORMWATER

***Including but not limited to Grass cuttings - Soil from construction sites - Wastewater**

<p>Contents</p> <p>Pollution Solution Tip</p> <p>News For: Everyone Homeowners Construction Industry Students & Teachers Marine Industry & Boaters Business Sector</p> <p>Job Network IRC Environmental Calendar Websites Grant Deadlines</p>	<p>Did you know.....</p> <p>97% of the earth's water is salty or polluted, 2% is too far underground to reach.</p> <p>That leaves only 1% for clean drinking waterand 50% of that is spent watering grass!</p> <p>With so little water available we each need to use it conservatively and keep it clean.</p>
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NEWS FOR EVERYONE....

Osceola County's Stormwater Section is hosting a Dewatering Workshop in partnership with FDEP directly referring to the FDEP dewatering permit. We encourage everyone that may deal with dewatering (permitting, review, inspection, etc.) to please take advantage of this. **Workshop and lunch is FREE*******

PREREGISTRATION REQUIRED - DEADLINE: September 3, 2008

Please fill out a registration form for each attendee.

REGISTRATION FORM

Name:

Title:

Company:

Department:

phone & e-mail:

Send to Rani Arsenault at Osceola County's Stormwater Section
at Rars@osceola.org , fax (407) 742-0600 or call (407) 343-2625 to register.

*Please note that space is limited and you are not officially registered until you receive confirmation.

**No watering
10 a.m. to 4 p.m.**



Water outdoors only when needed, before 10 a.m. or after 4 p.m., and **no more than two days each week**. Learn more about the **lawn and landscape irrigation rule**. Visit <http://sjrwmd.org/irrigationrule/index.html>

Cease the Grease - Perry the Pipe is starring in his own [video](#) to tell us why we should "Cease the Grease" from going down our drains <http://www2.dallascityhall.com/cease/ceasethegrease.html>

What is The Greatest Environmental Threat?

A Nature Conservancy and Environmental Studies Institute article refers to findings that suggest it could be the pervasive decline in nature-based recreation. The article states “experiences with nature before the age of 11 emerged as the best predictor of adult environmental behavior.” This trend in human behavior may ultimately be far more foreboding for the environment than even declining trends of tropical forest cover or increasing trends in greenhouse gas emissions. <http://www.take-it-outside.com/Images/Articles/KareivaCommentary.pdf>

Discarding any old but clean towels, sheets or blankets?

These items are greatly needed by the IRC Animal Control Division when handling sick and injured pets. You would be helping an injured four legged friend. Animal control is located at 4305 43rd Avenue unit 102, Vero Beach. These items could be left at the front door if it's after hours. For further information call Jason Ogilvie 226-3487.

Amount of Water Used for Common Activities

Brushing Teeth	3 gallons per minute the water is left running
Shower	40 gallons per 10 minutes
Bath	20 gallons
Clothes Washer	50 gallons per load
Dishwasher	14 gallons per load
Landscape	360 gallons per day
Hosing Driveway	130 gallons for every 15 minutes
Car Washing	100 – 160 gallons

Water Conserving Habits:**Bathroom — where over half of all water use inside a house takes place:**

- _ Do not let the water run while shaving or brushing teeth.
- _ Take short showers instead of tub baths. Turn off the water while soaping or shampooing.
- _ If you must use a tub, close the drain before turning on the water and fill the tub only half full. Bathe small children together.
- _ **Never use your toilet as a waste basket.**

Kitchen and Laundry — simple practices that save a lot of water:

- _ Keep drinking water in the refrigerator instead of letting the faucet run until the water is cool.
- _ Wash fruits and vegetables in a basin. Use a vegetable brush.
- _ Do not use water to defrost frozen foods; thaw in the refrigerator overnight.
- _ Scrape, rather than rinse, dishes before loading into the dishwasher; wash only full loads.
- _ Add food wastes to your compost pile instead of using the garbage disposal.
- _ Wash only full loads of laundry or use the appropriate water level or load size selection on the washing machine.

Outdoors

- _ Sweep driveways, sidewalks and steps rather than hosing off.
- _ Wash the car with water from a bucket and only on the grass, or consider using a commercial car wash that recycles water.
- _ When using a hose, control the flow with an automatic shut-off nozzle and be sure the water does not run into the street
- _ Avoid purchasing recreational water toys which require a constant stream of water.
- _ Consider purchasing a new water-saving swimming pool filter.
- _ Use a pool cover to reduce evaporation when pool is not being used.
- _ Do not install or use ornamental water features unless they recycle the water

(Source: <http://www.stormwater.cecs.ucf.edu/toolkit/vol1/Contents/pdfs/Water%20Conservation/residence.pdf>)

To learn about savings to be achieved with water conserving devices visit:

<http://www.stormwater.cecs.ucf.edu/toolkit/vol1/Contents/pdfs/Water%20Conservation/Water%20used%20handout.pdf>

Always be conscious to avoid directing any wash or rinse water into the street.

September 20 – 7am-11am Ocean Conservancy's International Coastal Cleanup

Join KIRB and The Pelican Island Audubon Society in cooperation with The Ocean Conservancy Coordinators will be at the following locations to distribute cleanup supplies to volunteers:

- Round Island • South Beach
- Jaycee Beach • Wabasso Beach
- Sebastian Inlet

The Vero Beach Power Squadron will assist in the clean-up by providing transportation to and from county owned islands. For more information call the KIRB office at 388-5472

Continued on next page

Hundreds of thousands of people will descend on beaches, lakes, and streams all over the world to remove trash and debris — on land and under the water. Volunteers of all ages from every continent will form the largest one-day volunteer event on behalf of clean oceans and waterways — Ocean Conservancy's International Coastal Cleanup.

Pollution prevention is the key. Ocean Conservancy's International Coastal Cleanup isn't just about pollution cleanup — it's also about pollution prevention. The event focuses on educating and empowering people to become a part of the marine debris solution. What makes the International Coastal Cleanup unique is its data collection (for research) component. Visit

http://www.oceanconservancy.org/site/PageServer?pagename=press_icc&JServSessionIdr011=ayiluzidw1.ap43b

October 23, 8:30 – 4 pm, Second Annual Treasure Coast Green Conference. Location: the Havert L. Fenn (Civic) Center - the new \$14 million, 62,575 square foot special needs shelter which is in the same location as SLC's previous Civic Center at the intersection of Virginia Avenue and 25 Street - @ ½ mile east of US #1. The conference fee - \$65. For more information email info@treasurecoastgreen.com or call (321) 971-1960. The program will consist of creative real-world solutions to current economic and development challenges, innovative projects, and progressive public policies that make sustainable development possible and profitable.

Florida Achieves Continued Improvements in Everglades Water Quality

Everglades Stormwater Treatment Areas are workhorses of phosphorus cleanup

West Palm Beach, FL — Only a year ago, the South Florida Water Management District (SFWMD) airlifted aquatic vegetation to finish revitalizing the largest constructed wetland in the world in a continuing and successful effort to clean Everglades-bound water.

District data already show measurable progress at the 17,000-acre wetland, known as Stormwater Treatment Area (STA) 3/4, and several other gigantic marshes as they work to remove excess phosphorus from stormwater runoff. Phosphorus is a nutrient that in excess can harm the Everglades ecosystem.

From January through July 2008, the average phosphorus level at 14 monitoring stations within the interior marsh of the Arthur R. Marshall Loxahatchee National Wildlife Refuge — which receives water cleansed by two STAs — has been less than 8 parts per billion (ppb). (The exact reading is 7.7 ppb.) That number is well below the stringent federal and state mandated target of 10 ppb. The most recent monthly measurement, for July 2008, shows an average phosphorus level of 9.2 ppb.

Phosphorus levels in the Refuge have continued a significant downward trend since February 1999, based on measurements at the 14 monitoring sites. See *Just the Facts: [Progress in Everglades Water Quality Improvements](#)* for further details.

2007 Indian River Lagoon Economic Assessment and Analysis Update was recently submitted to the IRL National Estuary Program. For a copy of the full report please visit <http://irl.sjrwmd.com>

Free Software to Create Educational and Outreach Tools

Want to design a fun educational or outreach tool? Know an educator looking to engage students while learning about the environment – have them build interactive, 3D virtual worlds! Most tools for creating them are complex, and take too long to learn --- until now. As a public service, Carnegie Mellon distributes two open-source authoring tools: Alice and Panda3D.

If you have no programming experience, you will want to use “Alice”, which provides a drag-and-drop editor and a friendly environment for non-programmers. Alice is in use at many schools, and there is a textbook. Alice was used to create the virtual reality "Super Mario Brothers World," as seen on the G4 Network's "Attack of the Show."

If you have programming experience you will want to use Panda3D, a professional 3D engine developed by Disney for use in their own games. It was released as free software in 2002. Panda3D is unusual in that it emphasizes rapid development and a short learning curve. Built-in python scripting helps support this rapid development style. Visit <http://www.etc.cmu.edu/Global/resources/software.html>

NEWS FOR HOMEOWNERS (and HOA Leaders)

Earth 911 video library has a series of **13 one-minute Envirotip videos** teaching you how to green specific areas of your life <http://earth911.org/videos/>

A liter out of 58 gallons: Breaking Down the Water Supply

Water is a common chemical substance, essential to all known forms of life. About 1,460,000,000,000,000 (1,460 trillion) tons of water covers 71 percent of the Earth’s surface, but relatively little is suitable for consumption. In many parts of the world, suitable water is in very short supply.

Let’s scale the world’s water supply to a size easier to comprehend like 58 gallons, about the same as a really full bathtub.

- a full 55 gallon drum of that water is saltwater ocean.
- About 10 pounds of ice is locked in polar ice caps and glaciers.
- About one drop is in the atmosphere as vapor, clouds, and precipitation.
- Another drop is in our soil, and part of life itself (our bodies are made up mostly of water, for instance).
- Our drinking water sources:
 - Almost one gallon of that water is below ground in aquifers.
 - Three-fourths of this is polluted or otherwise unavailable to us.
 - We are left with less than a liter of this water to live on.
 - About four tablespoons of that is in surface water such as rivers and lakes.

Proper disposal is key to water conservation because water is easily contaminated.

(Source: <http://earth911.org/water/breaking-down-the-water-supply/>)

The Construction Industry

Register by September 10 for the Construction Environmental Compliance Short-Course

Program:

This one-day workshop is for anyone involved in earth-moving or construction. The Florida Stormwater Regulations affect every level from estimating to field management and recordkeeping. Program participants learn how to comply with the Florida Generic Permit for Stormwater Discharges from Large and Small Construction Activity regulations. These construction activity requirements are mandated under the National Pollutant Discharge Elimination System (NPDES) permitting process. Attendance is recognized by a certificate; DEP inspector certification is not granted.

The one-day short course differs from the Florida Department of Environmental Protection's (FDEP) 2-day inspection certification class by delivering a significant amount of information on permit compliance. In comparison, the FDEP's Stormwater, Erosion and Sediment Inspector Certification course does not focus on the elements involved in the permit compliance process. The FDEP class focuses on various means of preventing pollution in stormwater through temporary and permanent features for construction projects and permanent facilities after construction referred to as Best Management Practices (BMPs)

Fee: Free (lunch on your own)

When: Wednesday, September 17, 2008 8:00 am – 3:30 pm

Where: Indian River County Road & Bridge Office Training Room, 4550 41st Street, Vero Beach

How to Register: Class fills up quickly. Register by September 10 by emailing your name and contact information to Diane Wilson at dwilson@ircgov.com. A return letter confirming your seat will serve as your registration confirmation.

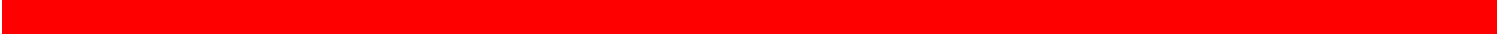
BEING THE RAINY SEASON....it is critical that construction professionals follow their project's SWPPP (stormwater pollution prevention plan) and adhere to the Florida DEP Generic Permit

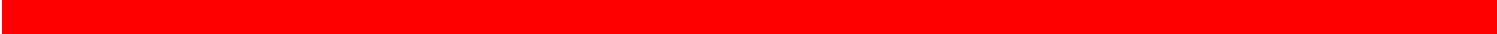
Construction sites that will result in a disturbance of one acre or more, and sites that include the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale that will ultimately disturb equal to or greater than one acre and less than five acres are required to seek coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities (Source: <http://www.dep.state.fl.us/water/stormwater/npdes/docs/cgp.pdf>)

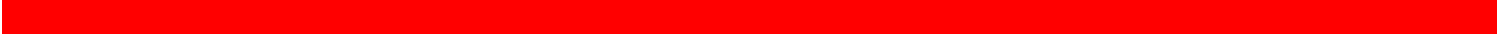
DO INSPECTIONS

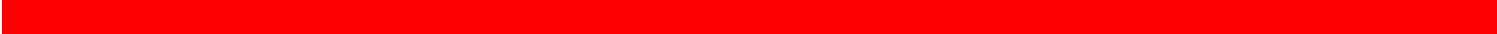
A qualified inspector (provided by the operator) shall inspect all points of discharge into surface waters of the State or an MS4; disturbed areas of the construction site that have not been finally stabilized; areas used for storage of materials that are exposed to precipitation; structural controls; and, locations where vehicles enter or exit the site, **at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater as follows:**

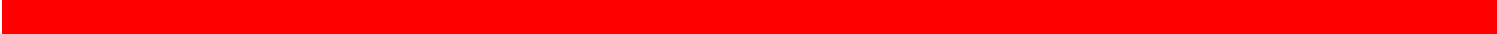
a. shall be inspected for evidence of, or the potential for, pollutants entering the stormwater system. The stormwater management system and erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Discharge locations or points shall be inspected to ascertain whether erosion and sediment control and stormwater treatment measures are effective in preventing or minimizing the discharge of (go to page 13 of this newsletter.....)











pollutants, including retaining sediment onsite pursuant to Rule 62-40.432, F.A.C. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

b. Based on the results of the inspection, **all maintenance operations needed to assure proper operation of all controls, BMPs, practices, or measures identified in the stormwater pollution prevention plan shall be done in a timely manner, but in no case later than 7 calendar days following the inspection. If needed, pollution prevention controls, BMPs, and measures identified in the plan shall be revised as appropriate, but in no case later than 7 calendar days following the inspection.** Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.

c. A report summarizing the scope of the inspection; name(s) and qualifications of personnel making the inspection; the date(s) of the inspection; rainfall data; major observations relating to the implementation of the stormwater pollution prevention plan; and actions taken in accordance with paragraph V.D.4.b. of this permit, shall be made and retained, in accordance with Part VI of this permit, as part of the stormwater pollution prevention plan. Such reports shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the stormwater pollution prevention plan and this permit. The report shall be signed in accordance with Part VII.C of this permit.

Part VI. Retention of Records

A. The permittee shall **retain copies of stormwater pollution prevention plans and all reports required by this permit,** and records of all data used to complete the Notice of Intent to be covered by this permit, **for a period of at least three years from the date that the site is finally stabilized.**

REGISTER NOWFOR THE Tues/Wed, Dec 9 & 10 * 2- Day DEP Florida Stormwater Erosion and Sedimentation Control Inspector's Coursehosted by Indian River County Stormwater Division. ---Don't wait until November to register as this class fills quickly. Participants will learn the proper methods of installing, maintaining, and inspecting Best Management Practices (BMPs) for use during and after construction to minimize erosion and sedimentation and to properly manage runoff for both stormwater quantity and quality. In order to obtain the FDEP certification, participants must attend the entire two-day class, and earn a minimum passing grade of 70% on the proctored examination.

(*Additional 2-Day DEP classes held year-round across the state are listed on the FDEP website at <http://www.dep.state.fl.us/water/nonpoint/erosion.htm>) **Stormwater Inspector Certification classes, held for free all year around the state of Florida, are listed at <http://www.dep.state.fl.us/water/nonpoint/erosion.htm>.** Address questions to the DEP Stormwater Certification Coordinator 850-245-8294

METRA Meetings are held at 3:00 p.m., on the second Wednesday of every month typically at the Florida Department of Environmental Protection's Central District office in Orlando however it is advisable to check www.metra.org <www.metra.org> for meeting locations. There are no fees or dues to join METRA. Everyone is encouraged to come and participate. Remember, everybody shares and everybody benefits. See the Calendar of Events at (<http://metra.org/>). The mission of METRA (Metropolitan Environmental Training Alliance) is to promote environmental excellence through training and partnerships. METRA was established in 1998 by the leaders of Orange and Seminole Counties, the City of Orlando, the Greater Orlando Aviation Authority, Reedy Creek Improvement District and the DEP Central District. Contact METRA to be added to their email distribution list.

November 5, 2008 METRA's FREE Environmental Excellence Day, to be held at the Sea World Ports O' Call facility in Orlando. Attended by environmental stakeholders from across the state, this workshop has become METRA's flagship event, combining a full day of expert environmental training, hot-topic presentations, a complimentary luncheon, exhibits, and prize drawings. The featured theme this year will be water conservation and feature a prominent guest speaker.

PlanetReuse.com is the world's first Web site that connects buyers and sellers of reused and reclaimed construction materials and equipment and allows them to purchase products with integrated shipping online, per <http://www.eponline.com/articles/60262>

Concrete washout issues ... EPA is targeting construction sites to insure that there is no violation of the NPDES requirements. Those who are in violation are being hauled away in handcuffs. Please make an extra effort to ensure your staff is informed and you are making specific plans to handle concrete washout. Contractors and concrete producers must wash out the chutes in order to prevent any concrete from spilling onto the streets. Simple solution for small amounts of washout is a designated pit (sign) lined with plastic – remove and haul off when dried. Make sure this activity is located AWAY from streams and water bodies. There are 2 potential pollutants in washout. 1 = pH issues. 2 = Selenium 6 (toxic). Any questions....look at the EPA and DEP websites.

TRAIN YOUR STAFF with a 5 minute video.

Do you know the major pollutant to the IRL? Soil. Why soil?

This 5 minute video shows how soil erosion occurs on a job site and how it is detrimental to the environment.

It is worth your time and theirs...

<http://www.youtube.com/watch?v=76sqH9Q9GS8&NR=1>

Learn new practices and implement them project by project: <http://www.wwn-online.com/articles/50888/>

Students & Teachers

Did You Know.....?

The Archie Carr National Wildlife Refuge was established by Congress in 1989

Sea turtles are now threatened with extinction throughout the world one of the most important sea turtle nesting sites in the world.

Long stretches of quiet, undisturbed sandy beaches, with little or no artificial light, are essential to the reproductive success and survival of sea turtles.

This fact is recognized in sea turtle recovery plans developed by the U.S. Fish and Wildlife Service, which call for purchasing and protecting the best remaining nesting beaches.

In North America, sea turtles primarily nest from North Carolina through Florida, with over 90% occurring in Florida. Within that range is the Archie Carr National Wildlife Refuge, a 20.5-mile stretch of beach between Melbourne and Wabasso, along Florida's east central coast. The Refuge attracts more nesting for threatened loggerhead turtles than virtually anyplace else on Earth.



USFWS File Photo

These Brevard and Indian River County beaches also attract more nesting green turtles, an endangered species, than anyplace in the continental U.S.



Click image to enlarge map of the Archie Carr National Wildlife Refuge.

To preserve this globally important nesting ground, the U.S. Fish and Wildlife Service (USFWS) is in the process of acquiring the remaining undeveloped lands between Melbourne Beach and Wabasso. The State of Florida, Brevard and Indian River Counties, the private Mellon Foundation and the USFWS, are each contributing money in the effort to buy land from willing sellers within the proposed refuge boundary. By mid-1996, over \$60 million had been spent to purchase 4.7 miles of beachfront out of 9.3 miles targeted for acquisition (61% of available targeted land).

How Was the Refuge Named?

The idea to establish a national wildlife refuge to protect sea turtles began in the late 1980's as a direct result of the work of world-renowned ecologist Dr. Archie Carr, Jr. When Congress approved the refuge proposal, it was decided then to name the refuge in honor of Dr. Carr's contributions to the understanding and conservation of sea turtles.

Dr. Carr was a zoology professor at the University of Florida, whose ability to translate science into literature brought the first international attention to the plight of sea turtles.

Dr. Carr helped found the Caribbean Conservation Corporation (CCC) to conduct research, education and advocacy on behalf of sea turtles



Dr. Archie Carr

Check these out.....GREAT EDUCATIONAL WEBSITES FOR TEACHERS, STUDENTS, ENVIRONMENTAL EDUCATORS!

Kid Scoop (http://www.tcnie.com/index.php?option=com_content&view=frontpage&Itemid=1) is an award-winning, internationally syndicated NIE feature that appears in more than 350 newspapers. It comes with Teacher Scoop, a monthly newsletter for educators. Kid Scoop is an educational activity feature and much, much more that parents will find of interest.

Kids Ecology Corps: Inspires students to make good choices and promote a healthy balance between humans and the earth's ecosystems. Involves presentations in classrooms and community service projects. More information is available on their website at www.kidsecologycorps.org.

U.S. Army Corps of Engineers Education Center <http://education.usace.army.mil/govlinks.cfm>

Captain Kids <http://www.captainkids.org/>

Keep Oceans Clean <http://www.keeпоceansclean.org/campaign/>



Now through November 5th – vie for the \$25,000 award offered by the www.wfchallenge.com competition by conceiving and implementing a totally unique volunteer project improving any waterfront

Kids Taking Action to preserve aquatic habitats.....visit the website: <http://www.aquakids.tv/> – a half-hour program on the FOX television network (airs locally on WFLX 12:30 PM Saturdays) features young people taking action across the U.S. to preserve aquatic environments and wildlife.

News for Marine Industry and Boaters



Do Your Part for Sport Fish Restoration

By posting the Sport Fish Restoration logo – a shared symbol of cooperative conservation – in your communications materials, you can help educate the public about what boaters and anglers have done to fund conservation in this country.

The Sport Fish Restoration Act, commonly referred to as the Dingell-Johnson Act passed on August 9, 1950, creates a program for management, conservation and restoration of fishery resources. When you buy a fishing rod, reel, lures, flies and artificial baits, your tax dollars go towards fish research, the re-introduction of declining sport fish species, restoration of aquatic habitats, aquatic education and construction of boat ramps and fishing piers. The Sport Fish Restoration Program (SFR) provides grant funds to the states, the District of Columbia and insular areas fish and wildlife agencies for fishery projects, boating access and aquatic education. The Program is authorized by the Sport Fish Restoration Act (Dingell-Johnson DJ) of 1950. The SFR Program was created to restore and better manage America's declining fishery resources and was modeled after the successful Wildlife Restoration Program. Through the purchases of fishing equipment, motorboat and small engine fuels and import duties the SFR Program is one of the most successful user pay, user benefit programs. The SFR Program symbol may be downloaded and displayed by authorized users. For more information visit <http://www.rbff.org/page.cfm?pageID=321>

Adopt-A-Fishing Bin Project - Volunteers are needed to inventory monofilament recycling bins along our waterfronts, and place collection boxes in marine-oriented businesses. For details contact KIRB at 388-5472

Clean Boater Program – If you would like to assist in the efforts to promote this valuable program at events please call KIRB at 388-5472. We can educate our citizens to utilize Florida’s Clean Marinas, Boatyards & Retailers, safeguard the state’s waterways, and adopt environmentally-friendly practices such as using bilge socks, fueling collars, and good recycling habits. For more information see www.dep.state.fl.us/cleanmarina/boater/default.htm

News for Business Sector

Green Business Tips

(Source: www.dep.state.fl.us/pollutionprevention)

When you start to green your business operations, you're helping to reduce carbon emissions, preserve forests and biodiversity, and keep our air and water clean. And you also can help protect your bottom line because environmentally responsible businesses are efficient businesses. The simple tips listed below can help any business start “going green”.

TIPS FOR RECYCLING AND REDUCING WASTE -The average U.S. office worker goes through 10,000 sheets of copy paper a year.

- **Implement paper-reducing strategies, such as double-sided printing, re-using paper, and using email instead of sending memos or faxing.**
- **Using a mug saves 500 disposable cups per person from being thrown away each year.**

TIPS FOR CONSERVING ENERGY IN EXISTING BUILDINGS - Installing compact fluorescent light (CFL) bulbs in place of standard incandescent bulbs can save you as much as \$40 a year in energy costs by changing out just one 60-watt incandescent with a 14-watt fluorescent lamp. CFL bulbs last up to 13 times longer.

- **Use programmable thermostats to ensure reductions during off hours and keep thermostats at 78 degrees or higher.**
- **Lower the thermostat on hot water heaters; 115 degrees is comfortable for most uses.**

TIPS FOR GREEN CLEANING/PURCHASING - Americans generate 1.6 million tons of waste each year from common cleaning products with potentially hazardous ingredients.

- **Refer to the Environmentally Preferred Purchasing list created by the Florida Department of Management Services:
http://www.myfloridaclimate.com/env/home/environmentally_preferred_purchasing**
- **Use “green “cleaning products and “eco-clean” your office: www.responsiblepurchasing.org and www.epa.gov/oppt/epp/pubs/vendors.**

TIPS FOR CONSERVING WATER - One drop of water wasted per second wastes nearly 3,000 gallons per year.

- **Wash company-owned vehicles less often, and use a commercial car wash that recycles water.**
- **Use native plants in your landscape that require less water than ornamental varieties and**

follow other “Xeriscape” principles: www.floridayards.org.

TIPS FOR TRANSPORTATION AND TRAVEL - Present full-time home business owners & telecommuters save approximately 4,439 million gallons of gas per year.

- For company-owned vehicles, maintain maintenance records and meet standards to reduce fuel consumption, i.e. regularly scheduled tune-ups, maintaining proper tire pressure and changing oil and filters.
- Encourage and reward carpooling to the office or biking and walking if office is located near by.

For more information visit www.dep.state.fl.us/green

JOB NETWORK

NPDES Education & Certification Coordinator, DEP - Nonpoint Source Management Section, Tallahassee, FL 850/245-8294

IRC Environmental Event Calendar

To enhance community awareness and organizational planning, non-profit and governmental groups (no commercial groups) are welcome to list their environmental events, meetings and activities occurring inside and outside the county. **Go to <http://www.calendar.yahoo.com>. The yahoo Id is IRCwaterqualityed and the password is calendar.** Once you are in the calendar, events are easily added by selecting the desired date and clicking on "add". Please include your name, title, organization name and phone number in the comments section.

Environmental Websites

<http://fn.cfs.purdue.edu/fish4health/Walletcard/walletcard.htm> - a wallet-size reference chart listing fish according to high, low and moderate mercury levels.

www.CNN.com/solutions, profiles innovative solutions to tough environmental problems

[Carbon Footprint Calculator](http://www.nature.org/initiatives/climatechange/calculator/) – <http://www.nature.org/initiatives/climatechange/calculator/>

www.Earth911.org

www.BuildingSoil.org

www.recyclefloridatoday.org

<http://www.palmbeachpost.com/green/content/shared/green/index.html>

<http://www.learningtogive.org/>.

Grant Deadlines

ROLLING DEADLINE - TMDL Water Quality Restoration Program stormwater construction grants, Deadline is rolling before Dec. 30 2008. Requires a 50/50 match. Average grant award is \$500K-\$1M. Approximately \$18M is available statewide. Construction of stormwater BMPs, wet detention, exfiltration, baffle boxes, etc. Contact aadams@gate.net

Boy Scout Troop #567's TROOP SAFARI* PROGRAM (12-19-08 draft)

February 27 – March 1, 2009

Volunteer Program Coordinator - Diane Wilson
(772-226-3477) dwilson@ircgov.com

Site Host: Rick Minton (772) 370-7425
and the Punkin Hammock Hunt Club

*Safari: a Journey or Expedition, for Hunting, Exploration, or Investigation

NOTE: Guest speakers will present the following topics at the 4 troop meetings in Feb '09 prior to the Safari Program

Feb 5 - Guest- Colonel Jeffrey I. Macrander USAFR, Operations Officer
of the 920th Rescue Wing at Patrick Air Force Base and a SERE
Contact info: Colonel Jeffrey I. Macrander USAFR, Operations Officer of the 920th
Rescue Wing, 321-494-9787, Jeffrey.Macrander@rescue920.patrick.af.mil

Topic: "Mental Preparedness: Training men to survive when they do rescue missions in Afghanistan" (discuss survival training and the psychology that goes along with effective training.)

Feb 12 – Guest - Adult Eagle Scout, Clayton Hanks
Contact info: through Rick Bradbury: rickbradbury69@hotmail.com
Topic: "Physical Preparedness: How to Condition Your Mind & Body to go on a Safari"
(or long hike in the case of our 12-member group now conditioning for a 100-mile hike at the BSA Philmont Ranch in July '09)

Feb 19 – Guest: CAPT Michael R. Howard, USN (Ret), Executive Director of the St. Lucie Cty Seal Museum (595-5845)
udtsealm@bellsouth.net

Topic - "Exciting True Life stories serving as examples of Physical Survival (navigating/orienteering, finding/gathering/rendering, drinking water, signaling for help)

Feb 26 – Topic: The Safari Experience through photos/DVD

Waiting to hear from:

- A) Camille Yates (cell number is 971-9798 email: yates_c@bellsouth.net)
She is asking Steve Stanley who could bring a DVD from his Safari Experiences in Africa
- B) On 11-28-08 Pat Rice emailed_"Barbara duPont"
Pooks4470@aol.com ,
and "Hal duPont" hallagator@aol.com who have been on many photo safari all over the world. They are very uniquely qualified having been to most if not all the locations you have listed

TOBY----Back up Ideas:

- A) Mr. Lindsey Hord, Biologist, FWC's Alligator Management Program
11-21-08 tentatively committed -barring unforeseen circumstances. He has put it on his calendar and will expect to hear from Diane closer to the date. 863-462-5197 lindsey.hord@myFWC.com
Has baby alligators and crocodiles for an educational presentation
- B) Toby Turner
Topic: How to purify drinking water in the wilderness
(bring in a solar still, water purification system, etc...)

SEEKING DONATIONS OF THESE ITEMS:

Wild Game & Fowl Meat –

NOTE: FWC Capt Denise Warwick cell: 954-445-2763 said (12-109-08) said no they could not donate confiscated meat (concern with health...)....contact a trapper and be sure to prepare properly e.g., alligator can be tough. This follows up the email I sent 11-21-08 to Law Enforcement (LE) Regional Division Commander Maj. David Stermen (david.stermen@myfwc.com).

Quantity needed....enough to produce about 100 "sample size" (ie, "meatball size") pieces of any wild game/fowl. We welcome all kinds of wild game and fowl and have only listed (below) what we could think of, suggestions are welcome:

- Quail - We need some donated.
 - Diane requested via 11-08 email to Fred Fanizzi, Quail Creek Plantation fred@quailcreekplantation.com
863-634-1763 (Fred will make members aware of our troop's need and see if anyone wants to donate the quail from their hunting trip packages)
 - The Hope Family

Venison - Diane requested via 11-08 email to Fred Fanizzi, Quail Creek Plantation fred@quailcreekplantation.com 863-634-1763

Elk - Possible donors: Karen Herndon,
Jeff Wilson and Brian (at Fleet Mgmt Div.) may know
someone with Elk meat.
Camille Yates can donate some
The Hope Family

Alligator -

Possibly Stuart Lightsey and his son Ricky – Okeechobee, FL
They catch nuisance gators and harvest all that are over 4'.
(suggested by Billy Welbourn wwilliamsharon@bellsouth.net
cell- 216-2132)

Possibly Kyle Patterson from Adam's Ranch may be able to obtain
Some (I emailed Mike Adams @ this 12-19-08)

The Hope Family (and Scott Hope can demonstrate how he pins them
In which is required by law before harvesting them??)

Rick may be able to get some.

If we need to, we can purchase alligator meat from
local nuisance alligator trapper, Carl Davison @ 772-201-5787
dgatorman@hotmail.com

Frog Legs – Diane will try to contact someone at the Fellsmere Frog Leg
Festival and see if they can donate frog meat – anyone have
Any contacts? Rick's friend (Bobby) may be able to supply some

Turkey - The Hope Family

Duck - Camille Yates can donate some
Call Ducks Unlimited

Pheasant - The Hope Family

- Possibly Billy Welbourn's son who manages Pine Creek Lodge.
(Billy suggests boiling it with Everglades, then crock pot with cream of
Mushroom soup and potatoes; serve over yellow rice!)

Snake -

Armadillo ("The Hoover Hog")

Squirrel - Camille Yates can donate some
The Hope Family

Goose - Camille Yates can donate some

Rabbit – Camille Yates can donate some

Dove –

Raccoon – (it would need to be grilled...)

Ammunition

20-gauge size 9 shotgun shells

(Wal-Mart: \$5.57/ 1 box of 20 bullets \$20.96/ 100 bullets containers)

12- gauge shotgun shells

.22 rifle ammunition (scouts are only allowed to use .22 rifles)

Quantity needed is dependent on what the scouts are welcome to shoot and want to shoot. 10 boys/hour long session with 45 minutes of shooting time:

Shotgun Shells:

Allowing time for reloading bullets, figure on average 2

bullets/minute = 90 bullets/ scout x 10 = 90 x 4 sessions =

TOTAL: 360 shotgun shells

Rifle rounds:

Figuring 6 rounds per minute x 45 = 270 rounds x 10 scouts

= 2,700 x 4 sessions = Total 10, 800 (but not all boys will shoot with rifles.....)

Earplugs – 60 sets

MISCELLANEOUS ITEMS...

Mounts

Mounts to exhibit Saturday Feb 28 afternoon 1 – 5 pm:

S. American Game –

European Game –

Asian Game –

Antarctica Game -

Arctic Game –
New Zealand -
African Game - Pablo has mounts he can bring
Jeff Wilson - IRC Fleet Management Div
N. American Game - Mike Owens, Director - IRC Fleet Mgmt Div
11-21-08 I emailed Mike Owens mowens@ircgov.com for a list
(Country of Origin, Type of Animal, Type of mount, who owns it)
and his preference on transportation.

- **Insect zappers** - Rick Bradbury will look into a “torch type with zippo functionality” to serve as an insect repellent device (Wal-Mart?)....he says its popular with hunters (note: there are tiki torches onsite)
- **Safari Souvenirs** (50 of some fun things the scouts ages 12 – 18) – camouflage hunting caps, etc...

FOOD and COOKING ITEMS:

Sausage, bacon, hamburger buns, fresh vegetables, potatoes, rice
Mango chutney, foil to roast hog, charcoal (to roast hog and cook wild game meats)
Seasonings to cook wild game.
Sturdy paper plates, napkins, utensils (to save time washing dishes and spend that
Time learning and appreciating the environment)

GUNS TO BORROW FOR SAT PROGRAM

Shotguns – need to borrow 12 and 20 gauge shotguns for the afternoon of Feb 28

For 12-gauge ask:

1	John McCoy
2	Rick Bradbury
1	Robbie Crum (parents: Debbie and Dan) (it has a double trigger)
1	Toby Turner

For 20-gauge ask:

1	Paula and Alan Thomas (grandparents of Scout Thomas Jones)
1	David Osgood
2	Gordon Anderson
2	Rick Bradbury

If we want to do rifle shooting....ask:

1	Gordon Anderson
2	David Osgood
2	Rick Bradbury
1	John W. McCoy
2	Paula and Alan Thomas (grandparents of Scout Thomas Jones)

- Safety glasses for scouts to use while shooting
- Bows, arrows, targets, and safety glasses for scouts (and adults!)

Diane to do:

Looking for contact information for:

- 1) **Bill Weeks** the owner of Lighting Traps in Fort Drum, FL Re: trapping session (per Billy Welbourn)
- 2) Stuart Lightsey and his son Ricky – Okeechobee, FL
They catch nuisance gators and harvest all that are over 4'.
(suggested by Billy Welbourn wwilliamsharon@bellsouth.net cell- 216-2132)

Contact Rick's contacts and get their email addresses:

Charles Norburn's [519-2083](tel:519-2083) czip@bellsouth.net

Wade Hatcher [462-3302](tel:462-3302) (Wade is with SLC Sheriff's Dept.)- to assist with the:

- Camouflage sessions (4 1-hour sessions) from 8 – 12 shooting (will it be skeet or target and are the NRA Certified Instructors?) (4 1-hour sessions) from 1 - 5 pm
- SLC Sheriff's Dept Helicopter and K-9 contact - at lunch time (or should we wait until I email and hear back from Bud/Mike Adams?)

Scott Attey, 370-2540 Scott Attey (with SLC code enforcement) - assisting boys in refining their archery skills and demonstrate cross-bows

Contact Frog Leg Festival to request frog meat

Contact Ed Killer's contacts:

RE: Bow Hunting:

Capt. Lewis Clanton, (cm-bdalligator hunting guide, also bow hunts big game out west)
(cell: 201-1732)

Lewis Clanton, has bow hunted all kinds of North American Big Game.

RE: Feb 26 troop meeting presentation if needed
Tony Ludovico - freelance underwater photographer, Open Water Images.com,
Wellington, c. 786-251-7701. his web site is <http://www.tonyludovico.us/>
Tony is a pro photographer who was commissioned to video a big game exotic hunter last
year in Africa and Spain and has some awesome shots and great tales.

Contact Martinelli family at Natalie's Orchid Island Juice Co. about donations of
OJ, lemonade and ice-tea

Confirm all instructors and facilitators by the end of December

Call KIRB about borrowing their popcorn machine
Find someone with a VCR projector to be set up outdoors (need table,
extension cord, etc?)

Call and ask about borrowing guns from:
Hal Dupont – he owns Kregoff Shotgun Company per scout mom,
Debbie and Dan Crum
Sunup non-profit org. @ borrowing 12 gauge shotguns (per same parents)

Call/email Ranger Bob at Oklawaha about our need to borrow 15 pairs of eye protection

Email program to potential instructors and troop parents – ask for donations of wild game.

Contact: - National Wild Turkey Federation - local group
Indian River Penwa Strutters – meet @ Quail Valley Clubhouse, A1A, Vero
Contact person – James Morris 778-7905
- Browning (Gun Company) Morgan, UT 800-333-3288 801-876-2711

- 11-10-08 Responded to Fred's offer for deer meat and asked for quail and
hog meat also. (Next communication – let him know we
do not need the hog)
- 11-14-08 Requested site plans from Rick for each day:
Friday night's set up - for approximately 8 patrols
Saturday where you see the best places for us to set up the 4 "stations"
in the am and 4 in the pm
Sunday - the deploy and SAR demonstration, and religious recognition
ceremony

- 11-15-08 Per Ivan's email (iarmengol@bellsouth.net), he is getting in touch with Mr. Dick (Richard), one of the Cabela Company Founders, which is good friend of the SCI Family to see if he can put us in touch with someone within his fine organization that could provide the Boy-Scouts with some or all of the items needed to make this program a success come February. Once I know of said person, I will put you in touch with he/she so you can take it from there.
- 11-18-08 Emailed Mr. Jim Colson, Miami Boy Scout Leader and Hunting Teacher (baldeagle111@bellsouth.net)How does the program outline look? What curriculum would you suggest for each of the one-hour sessions listed for Saturday?
- 11-20-08 Emailed "John Ronnlof" jrhunts@verizon.net to see if he has any contacts with Busch Gardens' and they may have suggestions about our program
- 12-18-08 Contacted - Bass Pro Shop - The reference number '081218-000983'.
 - Daisy Outdoor Products – Arkansas (800) 643-3458
info@daisy.com
 - The Great Elk Tour Conservation Exhibit – showcasing the largest bull elk in the world,
 Rocky Mountain Elk Foundation - Missoula, MT
 Toll-free: 1(800) CALL ELK (225-5355)
 - Code Blue Hunting Scents
 - Carry Light Hunting Decoys
 - Knight & Hale Game Calls
 - Moultrie Game Feeders

PROSPECTIVE VOLUNTEERS AND RESOURCES:

(10-06-08 Per Hank Rivera (former IRC district exec.):

IRC Scout District Leaders :

Emailed 11-20-08: Wayne Newland: waynewland@earthlink.net - Wayne Newland, Asst District Commissioner, is certified in Shooting (guns and archery) and does our Range Certification Training. He is a retired military person and so is Charlie Griffiths. They can help you with Survival Skills.

Emailed 11-21-08 Andy Ferris: adferris@bellsouth.net - Andy Ferris, SM (Scoutmaster ?) of T598, is one of the Merit Badge Counselors for Survival

Trish Adams: trish_adams@fws.gov

With Troop T599, works for FWC and has lots of contacts.

Charlie Griffiths: cfgriffiths@aol.com

retired military

Troop Adults:

Gordon Anderson

Rick Bradbury offered to help out where needed.

Clayton Hanks, (Rick Bradbury's friend) an Eagle Scout, may like to help out as well. Jane, Paul, Cole, and Kaylee may want to join in the fun as well??? Clayton will talk about "How to Condition Your Mind & Body to go on a Safari (or long hike in the case of our Philmont group.....) at a Feb troop meeting

Non-Troop Adults:

Scott Hope (I met 12-9 and 10th in my stormwater class) Cell 772-475-7660

dhope@ic-engineers.com

He lives in Crawfordville, FL (outside of Tallahassee) with Uncle Dale Hope, And cousin Vernon Hope Jr. and his wife Leslie....all engineers.

Jeff Wilson (works at the IRC Fleet Management Div.) He lived in Africa for a Couple years and traveled there several times with his dad who shot many different animals. He has some African animals mounted and could bring them.

Mike Owens (Director of the IRC Fleet Mgmt Div.) – offered for us to borrow
The animals he has mounted in his

January Tasks

Diane will contact David and his son, Chas, dlcc@bellsouth.net and Camille Yates (cell 772-971-9798 yates_c@bellsouth.net after the New Year so we can meet at one of our Troop Meetings (Thursdays at 7 pm at Our Savior Lutheran Church on 6th Ave., Vero Beach) to iron out all the details.

February Tasks:

Diane to get in touch one way or another with Mr. Lindsey Hord with the FWC about whether or not we need them for the Feb 26 meeting

Troop needs to supply:

Rice for lunch mixture (perlow) Rick will prepare (before event or on that day while

he is smoking the hog?)
Mango chutney (5 quarts) to be cooked with hog meat
Foil (5 large rolls – to wrap the hog meat for smoking)
Toilet Paper
Charcoal (to roast hog)....how much?
Hamburger buns – for Sat lunch venison burgers

Rick to:

Get frog legs from his friend, Bobby
Get some alligator meat
Confirm hog arrangements

Diane to:

Pick up deer meat from Fred Fanizzi, Quail Creek Plantation
fred@quailcreekplantation.com 863-634-1763)

Troop to collect and submit insurance papers to Rick Minton:

A) Liability Certificate - Toby will get 2 copies of the Boy Scouts of America office -Gulf Stream Council **certificate of insurance** showing Adams Ranch, as property owners and Punkin Hammock hunting club, as lessee

B) Diane will get the **hold harmless release form** from Rick and Toby will see that all scout parents sign a master copy for Rick's records. As of 11-21-08, Diane asked Toby for a scan (after the Thanksgiving holidays)of the troop's release form with the following inserted on it: Holland & Minton Properties, Inc dba Punkin Hammock Hunt Club

C) **Scouts' individual insurance certificates** – Toby Turner already has (on file) an insurance certificate for each scout who may be injured. This insurance provides Accident and Medical coverage to all scouts on any scout activity. I will bring this (file) with the liability certificate when we arrive.

PROGRAM

February 27 – March 1st Campout Location: "Punkin Hammock Hunt Club" (PHHC) is located at Adam's Ranch, an 18,000-acre working cattle ranch, 12 west of the Okeechobee Road/Florida Turnpike interchange on Route 70. "Punkin Hammock Hunt Club" is not affiliated with Adams Ranch nor is Adam's Ranch affiliated with PHHC except for leasing PHHC a half section of land.

Punkin Hammock can house 12 campers, has room for tents and pop-up campers, power for lights and fans, cooking facilities water for cooking, outhouse facilities, cover for bad weather, and campfire.

This Safari program is based on the premise that the "setting" is a jungle....see chapter 14 in the U.S. Army Field Manual 3-05.70 <http://www.survivablebooks.com/survivalfm3-0570.html>

Note: some requirements for the BSA Wilderness Survival Merit Badge (– listed at bottom of this agenda) may be addressed during this program but it is not the intention of this campout to accomplish them.

Attendance: Potentially –

39 registered boy scouts ages 12 – 18
12 adult troop leaders
20 volunteer instructors & facilitators

Friday Night

"Safari Hunters" Packing List: Patience and serious listening skills are the watchwords, day/back pack, hat, binoculars, insect repellent, sunscreen, camera (preferably with an ultra zoom lens), wear non-synthetic short sleeved shirt (colors are important: bright colored clothing should be avoided, red makes you very conspicuous to the wildlife especially on a walking safari. Khaki, brown and olive color-clothing help you blend in with the environment.), comfortable walking shoes/boots, long pants, flash light with extra batteries. Mild deodorant (really all scent related items are discouraged as animals can smell you miles away!)

4:00 **Leave Our Savior Lutheran church in Vero
and car pool to Adam's Ranch**

5:00 **Scouts arrive at Punkin Hammock Hunting Camp*
at Adam's Ranch** (*site host, Mr. Rick Minton – a Life Scout)

(Note: keep eyes open to catch a glimpse of wild
turkeys as you drive in!)

Host Rick Minton would meet us there.

Located on South Side of Route 70, 12 miles west of the intersection of Florida Turnpike Entrance and the Turnpike Feeder Road/Kings Highway, Fort Pierce

5:30 – 6:30

Scouts Set up Camp Sites -- quietly-----

6:30 – 7:30

An Introduction to the Agencies that Protect Florida's Wildlife

<http://edis.ifas.ufl.edu/UW076>

Facilitator: Possibly FWC Game Warden, Kyle Patterson, who lives on the Adam's Ranch would be willing to do this presentation:

Differences between these agencies:

The Department of Environmental Protection is the lead agency in state government for environmental management and stewardship and is one of the more diverse agencies in state government, protecting our air, water, and land. The Department is divided into three primary areas: Regulatory Programs, Land and Recreation and Planning and Management. Florida's environmental priorities include restoring America's Everglades, improving air quality, restoring and protecting the water quality in our springs, lakes, rivers and coastal waters, conserving environmentally-sensitive lands and providing citizens and visitors with recreational opportunities, now and in the future.

Florida Fish and Wildlife Commission (FWC)

U.S. Fish & Wildlife Service – (Vero office 772 562-3909, 1339 20TH ST., Vero Beach, FL 32960)

7:30 – 8:00

Sample Foods "Bear Grill" Would Find in the Wild: "Mystery" Edibles

The edibles will be pre-cooked and warmed up onsite via microwave)... Look for recipes online. 11-21-08 IRC Scout leader, Dave Carlson and his son Chas (Eagle Scout) confirmed they would prepare this and bring it out with them on Friday (they will camp for the weekend with us). Dave is retired military and an accomplished camp "chef."

Chefs: Dave Carlson and his son Chas (Eagle Scout) dlcc@bellsouth.net

Harry Hicks rangerhh@yahoo.com

12-11-08 I requested the contact person at the UF Entomology lab bug resources from Dr. Pete Stofella stoffella@ifas.ufl.edu at UF/IFAS) (and/or other locations) in Vero Beach. I need to request insects that are edible (Ants, crickets, grasshoppers, wasps, butterflies, and bees)

8:00 – 9:30

Hunting Around the World – Africa, Asia, South America, New Zealand, North America, Arctic, and Antarctica

Presenter: Pablo Alvarez

(112308 Camille Yates will scan in both slides and photos to create his presentation) Ask big-game hunter to give an overview Through the presentation create awareness of

- how animals blend into these various environments,
- how the countries on these continents benefit from conservation revenues

We will show his slides on a large outdoor screen = sheet on the side of the scout trailer.

Additional Available Videos online (if desired as a resource):
African Buffalo Hunt www.youtube.com/watch?v=wdkwP0hGLbU

Africa - Top five safari vacations
(source: <http://www.byseewah.com/huntingarticles17.htm>)

More info about Africa at end of this agenda.....

***** **AT NIGHT WE WILL HEAR THE COYOTES HOWL!!!!!!!!!!!!!!!!!!!!!!**

Saturday

- 5:45 am **Rivalry by Troop Bugler – Will Tremmel**
- 6:00 – 7:00 **Wake up and Start Cooking Breakfast.....**
Options:
Flapjacks and Fried Venison on the Scout Griddle
Dutch-oven Breakfasts
Research "typical African Safari breakfast faire"
Note: scouts need to remember to "pack for the day"....(bug repellent, Binoculars, camera, water container, hat : carry in your backpack.....remember you are going on Safari!!!)
- 7:00 – 7:30 **Watch a hog** Being Skinned by "Safari Butcher"** – Rick Minton
It will be smoked all day, marinated in Mango Chutney, and served as the main course for dinner.*Hog will be supplied by Rick Minton (to be freshly slaughtered earlier in the morning)
- 7:30 – 8:00 Patrol Orientation By SPL – David Osgood
Program Overview By Volunteer Diane Wilson
- Going on Safari**
Have 4 professional hunting guide/trackers* each guide a group of 10

scouts on a "hunt" circling among the 8 different "stations" listed below. To enhance learning see if we can get each small group into further "sub-groups" of 6 or even 4 boys per instructor/facilitator.

- 8:00 – 9:00 Session 1
The Lion group @ Survival station
The Water Buffalo group @ Tracking station
The Rhinoceros group @ Camouflage station
The Zebra Group @ Lean-To Station
- 9:00 – 10:00 Session 2
The Water Buffalo group @ Survival
The Rhinoceros group @ Tracking
The Zebra Group @ Camouflage
The Lion group @ Lean-To
- 10:00 – 11:00 Session 3
The Rhinoceros group @ Survival
The Zebra Group @ Tracking
The Lion group @ Camouflage
The Water Buffalo group @ Lean-To
- 11:00 – 12:00 Session 4
The Zebra Group @ Survival
The Lion group @ Tracking
The Water Buffalo group @ Camouflage
The Rhinoceros group @ Survival

4 morning stations:

Survival – Staying alive until help arrives and you're rescued

Finding /gathering/rendering drinking water, signaling for help: address merit badge items 7, 9 and 10)

Instructor: Confirmed -Stephen Kane, Winter Hawk Wilderness Survival Club*

Email: kanes@warner.edu (863) 528-3265

In addition to being an Eagle Scout and middle school teacher, Stephen is the founder of a non-profit "all area" skills club in Lake Wales, FL which hosts out of state visitors in addition to local Floridians. The club is comprised of tracker students who want to practice skills, gain dirt time and share information on wilderness survival, tracking, nature, flint-knapping on weekend and day trips. The club is open to all for a nominal fee to maintain non-profit status.

Additional facilitator: Clayton Hanks (per Rick Bradbury)

Animal Tracking and Awareness: How to be as Quiet as a Leopard & "Read" the Environment

Leopards are known for being the quietest hunter of all! Navigating/orienteering, observing signs of wildlife for hunting, observing safety concerns, etc. Awareness is all about ways to enhance your awareness of your surroundings, of tuning into things that we normally overlook or pass by. If you possess a heightened level of awareness, then tracking becomes much easier. Online resource: <http://wildwoodtracking.com/>

Instructor: not confirmed - Ralph Phifster, Game Manager at Adam's Ranch (461-6321)
12-19-08 I emailed Mike Adams asking for Ralph's help in doing this

**Not confirmed - Mr. Jim Colson, Dade County Boy Scout Leader and
Hunting Ed Teacher baldeagle111@bellsouth.net**

I emailed Jim in October 2008

Additional facilitators:

Camouflage – How to Select a Site and set up a Blind

Instructors: Confirmed per Rick Minton - Charlie Norburn and Wade Hatcher

Some "how-to" tips: http://www.ehow.com/how_2075477_camouflage-hunting.html

How to stay scent free: http://www.nwtf.org/tips_adventures/tips.php?id=12648

Assistant Facilitators: Possibly Rick Bradbury

Shelter - How to Make a Lean-to

Overview: <http://wildwoodsurvival.com/survival/shelter/index.html>

Debris Shelters <http://wildwoodsurvival.com/survival/shelter/debrishut/js2005/index.html>

Grass Shelters <http://wildwoodsurvival.com/survival/shelter/thatch/keithgerwing.html>

Boys cannot sleep in anything other than their screened tents because of mosquitoes, yes even in the winter!

Instructor: Not confirmed - Wayne Newland (IRC Scout District leader)

– can you also help us out With Bow & Arrow session in the p.m.?

Amanda Thompson, a former Oxbow employee she has a lot of knowledge and experience teaching debris shelter construction to children(Jennifer Howard at

Oxbow Environmental Ctr. Emailed her my request but she did not respond).

Assistant Facilitators:

Possibly Andy Ferris, a BSA Survival Merit Badge Counselor
(SM – IRC Troop #598) – I emailed him 11-21-08
Possibly Jeff Wilson

12:00 – 1:00

Lunch

Venison Burgers and/or Venison Perlow (venison and rice)
– prepared by Rick Minton

*Some Deer meat (ground with regular hamburger meat added in,
and cubed) will be donated by: Rick Minton

Fred Fanizzi, Quail Creek
Plantation fred@quailcreekplantation.com 863-634-1763)
Diane confirmed with Fred via email 11 – 08

Special Guest Speaker: Bud Adams* to give a 20 minute talk on :
Bud Adams may or may not attend depending on his schedule and
health, but would be a bonus should he be able to attend. If not, possibly
his son, Mike, would be able to talk. Topics:

1. The Broad Perspective on Safaris: Wildlife Management,
and Economics (or, WHY Go on Safari?)
 - A) World-wide Perspective: The Role and Value of Hunting: Why
People Hunt <http://www.conservationforce.org/role.html>
 - B) What is the difference between being a conservationist and being
An Environmentalist (saw answer on Turkey Assoc. website....)
 - C) National Perspective: \$200 million in hunters' federal excise
taxes are distributed to State agencies to support wildlife
management programs
<http://www.fws.gov/hunting/whatdo.html>
 - D) Local Perspective/Economics: Conserving Land in Florida
Florida's natural and agricultural lands are in high demand as the
pressure to convert these areas to residential and/or commercial
uses continues to increase. Florida has 11 of the 100 fastest
growing counties in the U.S. There are many compelling reasons,
however, to conserve natural and agricultural lands in Florida.
These include issues related to quality of life, traditional rural

lifestyles, aesthetic values, significant economic contributions to the state, and even national food supply. Private lands also play a crucial role in the conservation of wildlife populations in Florida.
<http://edis.ifas.ufl.edu/UW194>

E) Examples of Sustainable Ranch Techniques

F) Genetic Breeding: What goes into producing the best steak?
He breeds cows in a certain way that qualifies them as the "choice" of select steak restaurants (such Ruth Chris Steak Houses) Florida is the 8th largest agricultural state in the country.
(I will email Mr. Bud Adams at e-mail ranchtours@aol.com ?)

**Saint Lucie Sheriff's Dept Helicopter and K-9 Unit
(will decide if we will have time to include this...)**

1:00 – 5:00

Hunting for Food: Guns, Trapping, and Bow & Arrow Skills*

*The Boy Scouts of America especially discourages foraging for wild foods on the grounds that the knowledge and skills needed are unlikely to be possessed by those finding themselves in a wilderness survival situation, making the risks (including use of energy) outweigh the benefits. The BSA wants scouts to focus on survival until rescued by presumed searchers. Since gathering plant food is not encouraged by the BSA we will be focusing on trapping and hunting. Equipment (such as bows, snares and nets) is necessary to gather animal food in the wild.

4 different stations, each one-hour long (build in afternoon snacks at 3 pm):

1:00 – 2:00

Session 1

The Lion group @ Shooting station
The Water Buffalo group @ Trapping station
The Rhinoceros group @ Bow & Arrow station
The Zebra Group @ Mounting Demonstration

2:00 – 3:00

Session 2

3:00 – 3:30

Break:

Taste Testing - Sample a Variety of Wild Game and Fowl

11-21-08 Emailed IRC Scout leader, Dave Carlson and his son, Chas, committed to marinating in advance if necessary and cooking these meats on-site dlcc@bellsouth.net

3:30 – 4:30 Session 3

4:30 – 5:30 Session 4

4 stations in afternoon:

Shooting - (Is skeet/trap available for shotgun and target(s) for rifle?)

Scouts shoot....just bring shotguns, ammunition, shooting glasses (per scout rules)

NRA Certified Instructor*(s) – Confirmed per Rick Minton - Charlie Norbin and Wade Hatcher, both with the SLC Sheriff's Department (?)

*required by the Boy Scouts of America Facilitators

Tentative volunteer: Tony Posada, NRA Certified Instructor 971- 4756

(Per O'Dell Citrus's suggestion for last May's Gun Day Program. 10-31-08 Tony said he just started his own business "excavating trenches" so if he is not working that day he would be happy to help. He has the date penciled on his calendar. Diane will call him a couple of weeks before event to see what his schedule looks like.

Trapping

Online resource: <http://wildwoodsurvival.com/survival/traps/index.html>

Instructor:

Waiting to hear from instructor candidates:

A) Looking for contact info for... Bill Weeks the owner of Lighting Traps in Fort Drum, FL tell him Billy Welbourn will assist him if he teaches the "trapping session"

Billy Welbourn wwilliamsharon@bellsouth.net cell- 216-2132 –

per Scripps Journalist, Ed Killer. Billy retired after 27 years with FWC- law enforcement for this region, started a safari company 6 years ago and recently attended a school in Africa and became a certified professional hunter! He is happy to help youth!

B) not confirmed - Ralph Phifster, Game Manager at Adam's Ranch (461-6321)
12-19-08 I emailed Mike Adams asking for Ralph's help in doing this

C) not confirmed -Carl Davison @ 772-201-5787 dgatorman@hotmail.com I emailed him on 12-11-08

D) not confirmed Jeff Vorpapel jeffvorpapel55@aol.com (561) 744 – 7105

A professional trapper, Jeff is a scout leader with Palm Beach County Troop #17- same troop as Kelsey Cupples (kelsey.cupples@scouting.org) I emailed him in Oct. 08

Crossbow and Archery

Online resource: <http://wildwoodsurvival.com/survival/hunting/bowandarrow/index.html>

*****Consider having an archery club demonstrate with the Cross-Bows used in big game hunts **OR** allow the scouts to refine their archery skills by shooting arrows.

David S. Haskett FWC volunteer and Nat'l Bowhunter Ed Foundation member, (hasketts@gmail.com 772-528-5330) may be able to secure some crossbow hunters to demonstrate with decoys. Diane emailed him 11-24-08.

Instructors: Confirmed per Rick Minton:

Scott Attey with SLC code enforcement is an archery instructor

he also may have some cross-bow contacts?)

Wayne Newland - Asst IRC Scout District Commissioner, is

certified in Shooting (guns and archery) and does

our district's Range Certification Training. He is a retired military person.

Ask him about the am with the "Shelter" session also?)

Possible assistant volunteers:

volunteer BSA Certified Archery Range Masters

Steve Fuller 772-501-1389

Dennis Faillace 772- 913-2877

Taxidermy

Nothing goes to waste; the meat is eaten and hides can be tanned. Taxidermy is a combination of artistic talent and biology knowledge which we take for granted in our country. Most countries in the world do not have Natural History museums. This is the case in all of French-speaking Africa, the greater parts of Asia and South America. The situation is also unsatisfactory in many European countries. One on-line resource:

<http://wildwoodsurvival.com/survival/hides/index.html>. Pablo can possibly bring a tanning machine, a fleshing machine, airbrushes, compressors, a freeze-dry machine, and some completed mounts. Possibly he could bring a couple specimens (road kills or ones confiscated from FWC?). Possibly he could talk about the fact it's a college major (Museum Science/Taxidermy) and curriculum in some high school around the country, what he typically prepares, and how he does it.

Instructor: Confirmed - Mr. Pablo Alvarez, a professional Taxidermist and the Safari Int'l Club - Miami Chapter President.

He has been doing taxidermy since he was 12 and he is now 43 years young! As a scout master of a Medley, Florida troop, he taught several merit badges. He confirmed 11-21-08. **305-401-9453 email: palvare375@yahoo.com**

Available Mounting Samples to exhibit (Pablo has some mounts he offered to bring)

African Game - Jeff Wilson - IRC Fleet Management Div

N. American Game - Mike Owens, Director - IRC Fleet Mgmt Div

11-21-08 I emailed Mike Owens mowens@ircgov.com for a list

(Country of Origin, Type of Animal, Type of mount, who owns it) and his preference on transportation.

S. American Game –
European Game –
Asian Game –
Antarctica Game -
Arctic Game –
New Zealand -

- 5:30 – 6:00 **Dinner will be Served** – Fresh Smoked and Marinated
(some in Mango Chutney) Wild Hog
- 6:00 – 6:30 **Kitchen and Dining Clean-up by Scouts**
(sun sets about 5:50 pm)
In addition to the scouts, leaders and Rick, include guests:
Jon Bell.
- 6:30 – open **Viewing an African Sky**
Guest Facilitator, Jon Bell, Director of the
IRSC Planetarium,
(jbelle@irsc.edu 866-866-4722 ext 7515 will bring his very
special Celestron 14" Reflector telescope– allowing us to see the
rings of Saturn) is an Astronomy merit Badge counselor and
offered to bring the requirements. There will be a new moon on
the 24th this night there will be a crescent moon. Jon feels this is
the best time to view the sky versus later on in the evening. Jon
will arrive a couple hours earlier to set up: include him in dinner
headcount. He hiked at Philmont as scout. (Diane confirmed Jon
on 11-18-08)
- 7:30 – 9:00 **Outdoor Movie – WILD AMERICA**
Set-up an outdoor movie screen (Sheet on side of scout trailer)
and show a movie involving hunting, exploring, etc..
WILD AMERICA is rated G – Diane has this movie on VHS
Other options listed at
<http://wildwoodtracking.com/booklist/movielist.html#scout>

POPCORN: see about borrowing the popcorn machine from KIRB
- 9:00 – 10:00 **FREE TIME**
Optional Activities:

A) Play Capture the Flag game – scouts are to bring their
flashlights only (no night scopes allowed!)

B) CAMPFIRE - cook Schmores and tell "survival type" and campfire type stories

SUNDAY

7:00 a.m. "Wake Up" By Troop Bugler – Will Tremmel

7:30 Breakfast – French Toast and Fried Venison or Pork?

8:00 **Religious Observation**

9:00 **Para Rescue Men ("PJ") Deploy*** above Punkin Hammock

Mock Rescue Scenario*

Para rescue men (PJs) perform a search and rescue (SAR) demo (Copied Captain Mike Howard 11-15-08 to ask his help in designing a scenario)

(*waiting for confirmation by Colonel Jeffrey I. Macrander USAFR, Operations Office of the 920th Rescue Wing at Patrick Air Force Base. Approved by Rick Minton)

11 - 12 Pack up and leave

1:00 Return to Our Savior Lutheran Church

Requirements for the Boy Scout Wilderness Survival merit badge:

(source: <http://www.boyscouttrail.com/boy-scouts/meritbadges/wildernesssurvival.asp>)

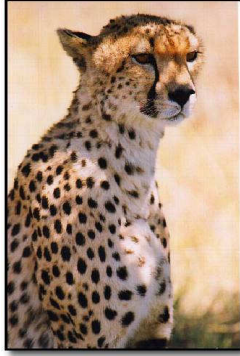
1. Show that you know first aid for and how to prevent injuries or illnesses likely to occur in backcountry settings, including hypothermia, heat reactions, frostbite, dehydration, blisters, insect stings, tick bites, and snakebites.
2. From memory, list the seven priorities for survival in a backcountry or wilderness location. Explain the importance of each one with your counselor.
3. Describe ways to avoid panic and maintain a high level of morale when lost, and explain why this is important.
4. Describe the steps you would take to survive in the following conditions:
 - a. Cold and snowy
 - b. Wet (forest)
 - c. Hot and dry (desert)
 - d. Windy (mountains or plains)

- e. Water (ocean, lake, or river)
- 5. Put together a personal survival kit and be able to explain how each item in it could be useful. ([Sample Kit](#))
- 6. Using three different methods (other than matches), build and light three fires.
- 7. Do the following:
 - a. Show five different ways to attract attention when lost.
 - b. Demonstrate how to use a signal mirror.
 - c. Describe from memory five ground-to-air signals and tell what they mean.
- 8. Improvise a natural shelter. For the purpose of this demonstration, use techniques that have little negative impact on the environment. Spend a night in your shelter.

(NOTE: Cannot sleep outside of a screened tent at Adam's Ranch)

- 9. Explain how to protect yourself from insects, reptiles, and bears.
- 10. Demonstrate three ways to treat water found in the outdoors to prepare it for drinking.
- 11. Show that you know the proper clothing to wear in your area on an overnight in extremely hot weather and in extremely cold weather.
- 12. Explain why it usually is not wise to eat edible wild plants or wildlife in a wilderness survival situation.





Cheetah - the fastest land mammal



Tanzania – Serengeti

The annual migration, when the wildebeest and zebra leave their grazing areas to find fresher ones: this is ranked by many as one of the wonders of the natural world

Kenya - Masai Mara National Park

Lion, leopard and cheetah abound and they are relatively easy to spot because of the grassland vegetation which means you get unrestricted views for miles around.

South Africa - Kruger National Park

For sheer variety of species no other place in

Africa can come close to the Kruger Park. And because it is so large (larger than Wales) it has a number of different ecosystems that you can pass through in your search for animals and birds. Videos:

http://www.tripadvisor.com/Tourism-g312618-Kruger_National_Park-Vacations.html

Botswana - Selinda Reserve

Seasoned safari travelers rate this reserve in north Botswana extremely high drawn by the very high concentration of wildlife, high standard of accommodations and exclusivity.

Zambia - South Luangwa National Park

A diamond in the rough, it's relative isolation as one of Africa's best kept secrets is part of it's charm. One of the best places to see the elusive leopard and it is the birthplace of the walking safari.

Bruce Whittaker is the founder and CEO of [African Safari Journals](#) which contains many safari travel journals and pictures from previous trips to aid in choosing possible African safari holidays and has been on numerous safaris throughout Africa.

Turkey Calls:

http://www.nwtf.org/all_about_turkeys/sounds_of_turkeys.html

How to make a turkey shell call:

<http://www.nwtf.org/jakes/xtreme/callmaking.html>