



Western Outdoor TimesTM

FREE

Arizona Boating & WatersportsTM



June - July 2011

BOATING | CAMPING | FISHING | HUNTING | RVING | WATERSPORTS | WILDLIFE

SUMMER SHOPPING

Products For The Outdoors



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Photo By Bartlett Lake Marina

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Nest Box

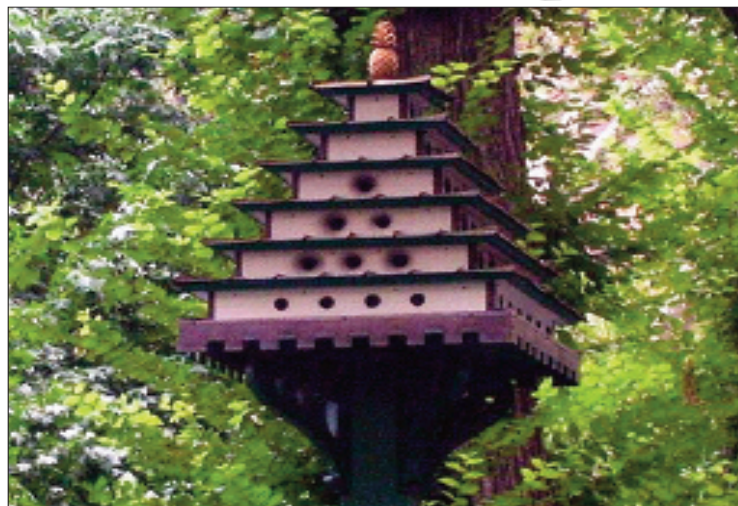
A nest box, also spelled nestbox, is a man-made box provided for animals to nest in. Nest boxes are most frequently utilized for wild and domesticated birds, in which case they are also called birdhouses, but some mammalian species may also use them.

Birdhouses are the most common types of nest boxes as they are small and easy to take care of while attracting many birds. Bird-watchers often use them to lure birds into their private land for mark and recapture tracking.

Construction

Nest boxes are usually wooden, though some for birds are made from a mixture of wood and concrete, called *woodcrete*. Metal nest boxes are also marketed, but these are generally unsuitable for outdoor use, as they

See **BIRD BOXES** on page 6



TIGHT LINES

This Is THE Book For Ocean Anglers!



The heftiest, best-illustrated book on long-range fishing: *At The Rail: Long Range Fishing* by Bill Roecker, has been recently released by Oceanic Productions. The big new 208-page coffee-table volume is colorful, about the best bites ever seen, the closest calls, oddest events, the most gratifying results and heartbreaking losses of the original extreme sport. It's printed on high-quality slick paper and is available in hard and soft covers.

At The Rail shows fishing for giant yellowfin tuna, and wahoo, dorado, yellowtail and other species. It covers the area from San Diego to Cliperton Atoll and Panama, with much about the Revillagigedo archipelago, Baja's southern banks,

northern Baja's offshore islands, and the open waters south of San Diego, where most of the summer fishing for albacore, bluefin tuna and yellowtail takes place.

Winter long ranging goes to the southern climes, targeting giant yellowfin tuna and wahoo.

The book is loaded with sharp photos of the scenic spots and action shots of anglers contending with the huge fish often encountered on long-range trips. History of the sport and profiles of best-known skippers, manufacturers and anglers are included.

At The Rail is a landmark saltwater book for

See **BOOK** on page 5

We at *Arizona Boating & Watersports/Western Outdoor Times* express our sympathy to all those who have lost homes, livestock, and property during the tragic wildfires that have also taken their toll on our precious wildlife and recreational areas. We also commend all the firefighters and emergency-relief services that have responded to the devastation of the 2011 firestorms.



GAME BAG

The Ideal Hunters' 'Home Away From Home'

Exploring the outdoors, hunting in remote settings and fishing in secluded ponds just got easier. Designed primarily for ATV towing, the Paiute from Evergreen Off Road Campers provides comfort without boundaries. This all-season, impact-resistant camper employs durable WeatherMax fabric from Safety Components.

"We chose WeatherMax due to its strength, weight, abrasion resistance and breathability," said Nick Spence, executive manager of Evergreen Off Road Campers, LLC. "The fabric has been tested in extreme rain, snow and sun with very admirable results."

"It's also mildew-resistant, making it a good fit for hunters and fishermen since many times an outdoorsman will break camp during inclement weather. The camper needs to stay in good shape for the next trip," Spence said. "This fabric provides all the quality required by the most discriminating outdoor enthusiasts."

Whether storing, hauling or towing, the



HUNTERS' 'HOME' — Exploring the outdoors, hunting in remote settings and fishing in secluded ponds just got easier. Designed primarily for ATV towing, the Paiute from Evergreen Off Road Campers provides comfort without boundaries. This all-season, impact-resistant camper employs durable WeatherMax fabric from Safety Components.

Paiute is dimensioned to fit anywhere a standard ATV will. The camper's independent torsion suspension delivers a tall ground

clearance. It also features over 6' of head room and two large beds. Below the cabin is the ISS (Integrated Storage System),

See **HOME** on page 6

LAND CRUISING

Keep RVs Spotless With Soft, Filtered Water

After giving an RV a good wash-down, it's frustrating to have to go back over the whole thing to wipe off damaging water spots. That time-consuming drudgery is eliminated with the CleaRinse 75800 CR2 Portable Washdown System from G2 Products.

Used for the final rinse, the Washdown System's softened and filtered water removes dissolved solids — the reason spots occur — and washes off minerals and contaminants that harm fin-



SOFT TOUCH — CleaRinse 75800 CR2 Portable Washdown System from G2 Products.

See **WATER** on page 6

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Bartlett Lake Marina has a great dock store (see cover photo) that carries everything you need for an outstanding day on the lake. And, for all those other items you have been meaning to buy, there is the online store. There are regular promotions for all and others reserved especially for those who sign up for the Bartlett Lake Marine newsletter. For more information, visit <http://bartlettlake.com/s/store>.

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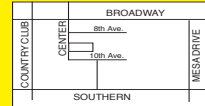
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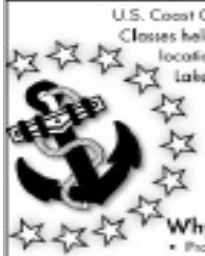
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KNOW BEFORE YOU GO

Update your boating safety knowledge

Weather Emergencies

Weather can change very rapidly and create unexpected situations for boat operators. Weather-related accidents in Arizona are on the rise, and even meteorologists have trouble predicting rapid weather changes. You should always monitor weather developments. One way is to tune to a VHF radio. Then seek a protected area before the weather becomes a threat.

What To Do If Caught in Severe Weather

- ◆ **Prepare the boat to handle severe weather.**
 - Slow down, but keep enough power to maintain headway and steering.
 - Close all hatches, windows, and doors to reduce the chance of swamping.
 - Stow any unnecessary gear.
 - Turn on your boat's navigation lights. If there is fog, sound your fog horn.
 - Keep bilges free of water. Be prepared to remove water by bailing.
 - If there is lightning, disconnect all electrical equipment. Stay clear of metal objects as possible.
- ◆ **Prepare your passengers for severe weather.**
 - Have everyone put on a USCG-approved life jacket (PFD). If passengers are already wearing their PFDs, make sure they are secured properly.
 - Have your passengers sit on the vessel floor close to the centerline for their safety and to make the boat more stable.
- ◆ **Decide whether to go to shore or ride out the storm.**
 - If possible, head for the nearest shore that is safe to approach. If already caught in a storm, it may be best to ride it out in open water rather than try to approach the shore in heavy winds and waves.
 - Head the bow into the waves at a 45-degree angle. PWCs should head directly into the waves.
 - If the engine stops, drop a "sea anchor" on a line off the bow to keep the bow headed into the wind and reduce drifting while you ride out the storm. In an emergency, a bucket will work as a sea anchor.
 - If the sea anchor is not sufficient, anchor using your conventional anchor to prevent your boat from drifting into dangerous areas.

Statewide Boating Education Classes

June 2011

Host	Date and Time	Location	Cost	Registration
Arizona Game and Fish Department	June 18 9 a.m. - 5 p.m.	Water Safety Center at Contact Point 1801 Hwy 95 Lake Havasu City	\$5 per family	(928) 680-0359
U.S. Coast Guard Auxiliary	June 18 9 a.m. - 6 p.m.	Bass Pro Shop 1133 N. Dobson Road Mesa	\$30	(602) 490-8076
United States Power Squadron	June 21 6:30 p.m. - 8:30 p.m.	Sportsman's Warehouse 19205 N. 27th Ave. Phoenix	\$0	(623) 456-2647
United States Power Squadron	June 28 6:30 p.m. - 8:30 p.m.	Sportsman's Warehouse 19205 N. 27th Ave. Phoenix	\$0	(623) 456-2647

July 2011

Host	Date and Time	Location	Cost	Registration
Arizona Game and Fish Department	July 12 & 14 6 a.m. - 10 p.m. (Must attend both)	Arizona Game and Fish Mesa Office 7200 E. University Ave. Mesa	\$8	(623) 236-7219
Arizona Game and Fish Department	July 13 & 14 5:30 p.m. - 9:30 p.m. (Must attend both)	Arizona Game and Fish Office 5000 W. Carefree Hwy, Eagle Room Phoenix	\$0	(623) 236-7219
U.S. Coast Guard Auxiliary	July 16 9 a.m. - 6 p.m.	Bass Pro Shop 1133 N. Dobson Road Mesa	\$30	(602) 490-8076
Arizona Game and Fish Department	July 30 9 a.m. - 5 p.m.	Marine Max 1840 E. Broadway Road Tempe	\$8 per family	(623) 236-7219

PWC Courtesies

- ◆ Avoid congregating with other PWC operators near shore, which increases annoying noise levels.
- ◆ Avoid making excessive noise near residential and camping areas, particularly early in the morning. Excessive use in one area can be an irritant to people who are there to enjoy a quiet and relaxing time.
- ◆ Avoid maneuvers that cause the engine exhaust to lift out of the water because that increases noise levels.
- ◆ Do not modify your engine exhaust system if it increases the noise. Improperly modified exhausts will not make your PWC faster and may raise noise to an illegal level.

Environmental Considerations

When operating personal watercraft, consider the effect you may have on the environment.

- ◆ Make sure that the water you operate in is at least 30 inches deep. Riding in shallow water can cause bottom sediments or aquatic vegetation to be

sucked into the pump, damaging your PWC and the environment.

- ◆ Avoid causing erosion by operating at slow speed and by not creating a wake when operating near shore or in narrow streams or rivers.
- ◆ Do not dock or beach your PWC in reeds and grasses. This could damage fragile environments.
- ◆ Take extra care when fueling your PWC in or near the water. Oil and gasoline spills are very detrimental to the aquatic environment. Fuel on land if possible.
- ◆ Never use your PWC to disturb, chase, or harass wildlife.

Other PWC Considerations

- ◆ Remember that everyone on board a PWC must wear a life jacket (PFD). A high-impact life-jacket is recommended.
- ◆ Keep hands, feet, loose clothing, and hair away from the pump intake area. Before cleaning debris away from the pump intake, be sure to shut off the engine.
- ◆ Keep everyone clear of the steering nozzle unless the PWC is shut off. The water jet can cause severe injuries.

- ◆ Frequently inspect your PWC's electrical systems (e.g., starter and engine gauge connections) to ensure there is no potential for electrical spark. Gas fumes could collect in the engine compartment and an explosion could occur. After fueling, sniff the engine compartment for any evidence of gas fumes.
- ◆ Never exceed the manufacturer's recommended capacity for your PWC.
- ◆ Know your limits, and ride according to your abilities.



OPERATION DRY WATER
June 25 - 26, 2011

**Are you an outdoor enthusiast?
Would you like to learn more about Arizona wildlife?
Do you have outdoor skills you would like to share?**

If you answered "yes," then the Arizona Game and Fish Department's Volunteer Program may be just right for you! Call us today for more information.

This information brought to you by:
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Our editor, Carol L. Allen, sincerely thanks all those who have helped with this issue during her convalescence. Invaluable have been the contributors, the publisher Jim Allen, the production manager Angela Ogden, and other family and friends.

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BOATING BASICS: ON THE WATER

Colorless, Odorless Carbon Monoxide: A Killer

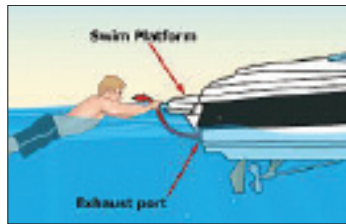
Carbon monoxide is a colorless, odorless, tasteless gas that is very toxic even in small quantities. It is produced when a carbon-based fuel, such as gasoline or diesel, is burned. Cooking ranges, heaters, and charcoal grills produce carbon monoxide also.

Carbon Monoxide Kills!

Carbon monoxide disperses freely through the air and will travel readily throughout a boat.

Carbon monoxide discharged as engine, generator, or appliance exhaust may re-enter your boat through any opening.

A marine-type carbon monoxide detector will sound an alarm when the gases reach an unacceptable level.



The best prevention for carbon monoxide poisoning is knowing that carbon monoxide exists.

By keeping a steady flow of fresh air moving through your boat, you will eliminate much, if not all, of the hazard. The danger comes when there are pockets of stagnant air loaded with carbon monoxide that are not flushed from your boat.

When operating any type of watercraft, be careful running downwind because exhaust gases may blow back on board.

Everyone should know the symptoms and treatment of carbon monoxide poisoning.

Symptoms Of Carbon-Monoxide Poisoning

One or more of the following symptoms may signal the adverse effects of carbon monoxide accumulations:

- Throbbing temples
- Inattentiveness or lack of concentration
- Inability to think coherently
- Ringing in the ears
- Tightness across the chest
- Headache, drowsiness, nausea, dizziness, fatigue, vomiting, collapse, and convulsions

For additional information, read "Boaters Protect Yourself from this Silent Killer! Carbon Monoxide," a brochure produced by the Arizona Game and Fish Department that is available by contacting your nearest Arizona Game and Fish Department office.

Treatment Of Carbon-Monoxide Poisoning

- Evacuate
- Ventilate
- Investigate, and
- Seek medical help.

Life-Threatening Activities

Teak surfing, platform dragging, and water-skiing within 20 feet of a moving watercraft can be fatal.

Stay away from the exhaust ports—carbon monoxide builds up in areas near exhaust vents.

DO NOT swim in areas where carbon monoxide may accumulate, such as the cavity between the swim platform and the stern of the boat.

For more information, visit <http://www.boat-ed.com/az/handbook/carbonmonoxide.htm>

Safely Navigate In Style With Powerful LED Bow Lights

LED lights are much brighter (a big safety plus), last longer and generate much less heat than standard lights. Accon Marine combines all these benefits and more with its LED Bow Lights.

US Coast Guard-approved for two nautical miles, these powerful illuminating lights are offered in white or red and green. When not in use, these sleek lamps fold down flush to avoid tripping and snagging lines.

Constructed from marine-grade 316 stainless steel, they can endure the harsh elements. Optional plastic cups are available to prevent water runoff below deck.

Easy to install with three, #10 screws, cut-out templates are included. Do-it-yourselfers can view more detailed mounting instructions by watching www.youtube.com/watch?v=Rt9x0QTuwPI&feature=channel.

Accon Marine's LED Bow Lights retail for \$177.02 each. The inventor of the original Pop-Up cleat, Accon Marine specializes in flush-mounted, stainless steel hardware to enhance a boater's experience.

Contact local dealers or Accon Marine, 13665 Automobile Blvd., Clearwater, FL

Operation Dry Water Set For June 24-26

Marine Law Enforcement across the country scored another success with Operation Dry Water 2010, the second nationwide crackdown on persons Boating Under the Influence (BUI) of alcohol or drugs.

Agencies and organizations from all 50 states, the District of Columbia, and the U.S. territories of Guam, Puerto Rico, American Samoa, the Northern Mariana Islands and the U.S. Virgin Islands participated in last year's effort, held June 25-27, 2010. The numbers of boaters and recreational vessels contacted took a big jump over the previous year's inaugural run.

Operation Dry Water was launched in 2009 by the National Association of State Boating Law Administrators (NASBLA), under a grant from the United States Coast Guard. With nearly one of every five recreational boating fatalities directly related to BUI, this nationwide effort aims to save lives and foster a stronger and more visible deterrent to alcohol and drug use on the nation's waterways.

The 2011 Operation Dry Water is scheduled for the weekend of June 24-26. For more information on this annual campaign, visit the Operation Dry Water website at www.operationdrywater.org.

About NASBLA

The National Association of State Boating Law Administrators is a national non-profit organization that works to develop

See **DRY WATER** on page 5



Father's Day
June 19



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PA/Hailer Speaker Delivers Messages Clearly

The ability to hear VHF transmissions and other communication is important to any boat owner, especially in poor weather or emergencies. With up to 40 watts of power handling capacity, Shakespeare's new HS-40 PA/Hailer Horn Speaker has many uses to help ensure messages are heard.

This powerful 40-watt speaker is an ideal accessory for loudhailers and marine VHF radios that have built-in PA or loud-hailer functions. As an external speaker for VHF radios, it provides extra volume that is especially helpful in noisy environments.

When used with true loudhailers, it fully supports the hail, fog horn and "listen back" functions. In "listen back" mode, it helps amplify person-to-person communication when a radio is not being used, particularly useful in emergency situations.



'CAN YOU HEAR ME NOW?' — The ability to hear VHF transmissions and other communication is important to any boat owner, especially in poor weather or emergencies. With up to 40 watts of power handling capacity, Shakespeare's new HS-40 PA/Hailer Horn Speaker has many uses to help ensure messages are heard.

The versatile HS-40 comes with a tilt mount bracket for deck or bulkhead

mounting, and also supports flush mounting. Constructed with high-impact white plastic, the attractive HS-40 complements Shakespeare's complete range of hailer and external speakers.

This 8-ohm model has a frequency response of 250 Hz to 8 KHz and can operate in temperatures of -40 to 176° F. Shakespeare's HS-40 PA/Hailer Horn Speaker is 7" W x 13" D, with a suggested retail price of \$115.95.

Contact local dealers or —
World Headquarters
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www.shakespeare-marine.com

Three-Camera Unit Delivers Exceptional Night Vision

A high-definition, thermal-imaging camera, low-light camera and color camera all in one unit with 2-axis gyro stabilization, the Poseidon HD Tri-Camera System from OceanView is perfect for private vessels. This night-vision camera delivers ideal surveillance for any time of day.

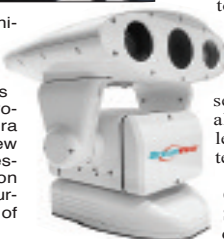
The 4x zoom thermal imager enables a crisp image for safer operation in total darkness. Amplifying even barely discernible light, the 10x zoom low-light/lux camera renders a sharp, detailed picture in adverse navigational conditions. The color daylight camera has a powerful 312x zoom.

Utilizing a sophisticated, computer driven, 2-axis, gyro-stabilization system, the Poseidon compensates for the vessel's movement while maintaining a stable image on the display screen. The Poseidon also comes standard with radar and ARPA target tracking and 360° continuous pan capability.

Shon Craig has a Poseidon installed on his 80' Hatteras motoryacht, Amarula Sun. "On the water at night, this camera makes it seem like it's daylight. I can't



CLICK! — A high-definition, thermal-imaging camera, low-light camera and color camera all in one unit with 2-axis gyro stabilization, the Poseidon HD Tri-Camera System from OceanView is perfect for private vessels. This night-vision camera delivers ideal surveillance for any time of day.



imagine life without it," said Craig. "The crisp resolution is stunning and the stabilization is fascinating and foolproof."

"I've recently installed an application on my phone and computer that allows

me to control and access the cameras remotely," Craig continued.

"Many times I'll moor my boat three miles or so from home and leave it unattended with only a security system. Now that I can view what the camera sees from my own home, I feel much safer."

With a sealed and heated camera enclosure, the Poseidon is durable enough to withstand the harshest marine environments. Machined from aircraft-grade, solid-billet aluminum, it's saltwater and corrosion-resistant with a rugged, triple-primed and sealed, powder-coated, marine-grade aluminum housing. A unique quick-release base facilitates easy service or system sharing between vessels.

Coming with a new, 3-year warranty, OceanView's Poseidon Tri-Camera System retails for \$84,370. The Poseidon without HD thermal retails for \$74,995.

Contact local dealers or OceanView Technologies, 1181 South Rogers Circle, Boca Raton, FL 33487. 954-727-5139; Fax: 954-302-2476. sales@oceanviewtech.com; www.nightboating.com.

Award-Winning Handset Stream Music Wirelessly

Already featuring exclusive, patent-pending MicroBlue™ technology, Cobra Marine's MR F300 BT waterproof handset with Bluetooth® wireless technology has always transmitted phone calls loud and clear. But, now this innovative marine product enables users to wirelessly stream and control music from their Apple®, Blackberry®, Android™ and other Smartphone devices. The updated MR F300 BT connects directly into any existing stereo's aux input.

"This new functionality will be very important for our customers who have recently upgraded to one of the popular Smartphones. The Smartphone market has exploded in the past year. Our product helps boaters keep their new Smartphones safe and dry while still using them aboard their boats," said Ricky Johnson, national marine sales manager at Cobra Electronics.

The MR F300 BT features a noise-canceling microphone for crystal clear, non-emergency conversations and is compatible with any Bluetooth-enabled cell phone. Meeting JIS7 standards, Cobra's MR F300 BT withstands full submersion in 3' of water for half an hour.

A large illuminated display enables quick and easy caller identification. The call log lists up to 50 incoming, outgoing and missed calls, while a 50-number phone book keeps contact information handy.

This device connects directly to a boat's 12V DC power system through a waterproof plug that is easily installed in as little as 30 minutes. An optional 12V adapter is available for easy boat-to-boat or boat-to-other vehicle portability. With a one-time configuration, it can be paired to up to eight cell phones, with one phone used at a time to communicate. The MR F300 BT doesn't require any charging or battery replacement.

Cobra Marine's updated MR F300 BT has a new retail price of only \$99.95.

Contact local dealers or Cobra Electronics Corporation, 6500 West Cortland Street, Chicago, IL 60707. 773-889-8870. productinfo@cobra.com; www.cobra.com/marine.



HANDY HANDSET — The updated MR F300 BT connects directly into any existing stereo's aux input.



BOOK

Continued from page 1

expert anglers and the general audience, with high-quality color photos and art, species information, fishing locations and tackle, war stories from fishermen, stories of the most significant catches, details of record fish and Roecker's personal long range adventures over the past 30 years.

This book is a must-have for all ocean anglers.



DRY WATER

Continued from page 4

public policy for recreational boating safety. NASBLA represents the recreational boating authorities of all 50 states and the U.S. territories.

NASBLA offers a variety of resources, including training, model acts, education standards and publications. Through a national network of thousands of professional educators, law enforcement officers and volunteers, NASBLA affects the lives

of over 83 million American boaters.

About The U.S. Coast Guard

The United States Coast Guard is a military, multi-mission, maritime service within the Department of Homeland Security and one of the nation's five armed services. Its core roles are to protect the public, the environment, and U.S. economic and security interests in any maritime region in which those interests may be at risk, including international waters and America's coasts, ports, and inland waterways.

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SmartPlug Supplies Tips For Shore Power Safety Check

Shore power systems are critical, yet potentially dangerous, and typically subjected to the harsh surrounding marine environment on a daily basis. Boat owners often don't realize the importance of keeping these shore power components in good working order.

If early warning signs go undetected, a neglected connector or inlet can lead to shore power system failure or fire. Often, these early warning signs can be easily identified and corrected before a larger problem occurs. Owners should regularly inspect their shore power components for the all-too-common pitting or corrosion of the pins, slight browning of the plastic, obvious scorched or melted plastic and a charred or smoky odor.



SAFE POWER — Shore power systems are critical, yet potentially dangerous, and typically subjected to the harsh surrounding marine environment on a daily basis. Boat owners often don't realize the importance of keeping these shore power components in good working order.

With a SmartPlug system, owners can rest assured these are problems of the

past. Its patented thermostat is designed to cut the power before an overheating event can occur. This thermostat is the only device available that trips as a result of too much resistance, unlike breakers and GFCIs that trip as a result of too much electrical current or leakage. SmartPlug's patented multi-point locking system also ensures that the connection remains rock solid and weather-proof, minimizing the risk of corrosion or loose connections from occurring in the first place.

Contact local dealers or SmartPlug Systems, 2288 W Commodore Way #300, Seattle, WA 98199. 206-285-2990; Fax: 206-285-2981. Sales@smartplug.com; www.smartplug.com.

Advance Marine Muffler Application Protects Parasailers

Traditional marine muffler systems can expose parasailers to harmful exhaust and carbon monoxide during launching and landing. Commercial Water Sports in New Jersey, builder of parasailing boats, offers its customers a better solution with Thinline Mufflers from Marine Exhaust Systems. These customizable systems direct exhaust away from the back of the boat, for safer and more enjoyable parasailing experiences.

USCG certified for 15 parasailers and two crew members, Commercial Water Sports' Ocean Pro 35 helps increase profits

See **MUFFLER** on page 15

BIRD BOXES

Continued from page 1

can overheat easily in sunshine.

Many nest boxes are cuboid and have a sloping roof, with a hinged top, side or front to provide access for cleaning, bird ringing or, when used for domesticated species, to give the breeder access to the young. Boxes may either have an entrance hole or be open-fronted.

Some nest boxes can be highly decorated and complex, sometimes mimicking human houses or other structures. Nest boxes may also contain nest box cameras so that use of, and activity within, the box can be monitored.

Size Matters

Different sizes of nest-box suit different species of birds with very small boxes attracting wrens and treecreepers and very large ones attracting ducks and owls. The maintenance of nest-boxes to remove old nest material and any parasites is important if they are to be successfully re-used.

Blue and Great Tit birds and Tree Sparrows have been shown to prefer woodcrete boxes to wooden. Birds nesting in woodcrete sites had earlier clutches, a shorter incubation period, and more reproductive success, perhaps because the synthetic nests were warmer than their wooden counterparts.

WATER

Continued from page 1

ishes. ClearRinse enhances the effectiveness of cleaners while reducing consumption. Providing 2,000 gallons of treated water before the need to recharge, the 75800 CR2 can leave even the largest motorhomes spot-free.

The portable ClearRinse 75800 can be used anywhere there is a faucet and hose. Requiring little maintenance, the system comes with a clear canister filled with

water-softening salt, connected to a large blue tank for recharging. It measures 28" H x 9" D x 16" W with a dry weight of 45 lbs.

The unit comes ready to use and includes a 5' connection hose, ClearRinse prefilter cartridge and instructions. The ClearRinse 75800 CR2 Washdown System from G2 Products retails for \$795.

Contact local dealers or ClearRinse by G2 Products, 1445 Jupiter Park Dr. #9, Jupiter, FL 33458. sales@clearinse.com; www.clearinse.com.

HOME

Continued from page 1

where fuel, water or a toolbox can be safely transported.

Evergreen Off Road Campers offers many accessories to augment the camper in various environments, including a zip-on Weather Skirt to enclose the entire underside of the cabin and a 10' x 12' attachable wall tent. "Many of our accessories also utilize WeatherMax materials due to the quality and properties of the fabric," said Spence.

WeatherMax fabric from Safety Components offers twice the strength and six

times the abrasion resistance of acrylic. Made from solution-dyed SaturaMax yarns with a revolutionary HydroMax finish, the fabric is highly water-resistant yet breathable, eliminating the growth of mildew.

Evergreen Off Road Campers currently uses WeatherMax fabric in Toast. More information is available at www.evergreenoffroadcampers.com.

Contact local dealers or WeatherMax by Safety Components, 40 Emery St., Greenville, SC 29602. 864-240-2712; Fax: 864-240-5947. www.weathermax.net.

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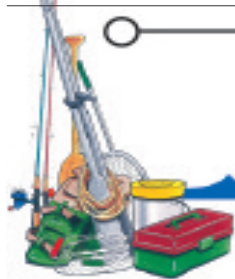
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LIGHT LINES

FISHING IN ARIZONA AND BEYOND



So Many Fish, So Little Time (Part 2)

TRUE STORY!

Arizona Desert Offers Abundant Angling Opportunities

Introduction From AZGFD

Although Arizona is a desert state, it is blessed with abundant opportunities for anglers. Of the 27 or so species commonly sought by Arizona anglers, eight are cool or coldwater fish, and 19 are warm-water species.

There are more than 160 stream-management reaches comprising 1,500 miles and around 80 lakes that are managed for trout. The Arizona Game and Fish Department also manages warm-water fishing opportunities in about 355,000 acres of impounded water (lakes, reservoirs, ponds, and tanks) and 35,840 acres of flowing water (about 1,400 linear miles).

Further, the department manages 21

Urban Lakes in partnership with municipal parks in Arizona. These lakes are intensively stocked to provide recreational opportunities to people near their homes. In taking advantage of these opportunities, anglers spent \$830 million, and contributed \$1.1 billion to the state's economy in pursuit of their favorite finned friend in 2001.

Today, fish management involves many activities including monitoring, research, stocking, habitat improvement, evaluation, information and education, investigation, providing access, outreach, nongame species conservation, to name a few.

At the same time, the department is providing angler opportunities, Arizona's natural heritage — represented by our nat-

tive fishes — is in danger being lost. Out of 35 native fish, one is extinct, and almost 75 percent are federally listed, candidates for listing or listed as a wildlife species of special concern.

The future of sportfish management is inseparably intertwined with that of management of native fishes. To be successful at sportfish management the department must be successful at conserving native fishes.

The strategy for achieving success is that of moving away from individual sportfish management and native fish management and towards integration of fisheries management, using a watershed approach, to encompass both.

Northern Pike Prefer Congested Areas

Description

Non-native, originally found in Canada and northern states around the Great Lakes. Introduced to Arizona in 1965. Back and sides are dusky olive-green with rows of light oval spots. Dorsal, anal and tail fin have round to oblong darkened spots.

Dorsal fin located far back on an elongated body. Large canine-like teeth. Cheeks completely scaled; only upper half of the gill cover is scaled. Length: 12 to 47 inches. Weight: 8 ounces to 24 pounds. Maximum age is 30 years.

Location/Habitat

Found in Lake Mary, Ashurst Lake, and Long Lake, south of Flagstaff. Also found in Rainbow and Fools Hollow in the Show Low/Lakeside area. Prefer shallow water and areas congested with aquatic weeds.

Reproduction

Spawn in early spring just after ice thaws. Spawning occurs during the day. Adhesive eggs simply scattered over the bottom or onto vegetation. Eggs hatch rapidly in 12-14 days. Young remain in shallows for several weeks.

Food

Fish make up the bulk of their diet, but they will also take frogs, crayfish, water-dogs, ducklings, birds and mice. Unfortunately, pike enjoy eating rainbow trout and can greatly disrupt trout populations (and fishing success) in waters intended for trout only.

Angling

Effective lures and bait for pike are "LARGE" spoons, spinners, plugs or waterdogs. Fishing with minnows is unlawful in nearly all pike waters; make sure to check the fishing regulations. Northern pike have sharp teeth; so many anglers use a wire leader to prevent the line from being cut.



Green Sunfish Will Eat Just About Anything

Description

Native to the Great Lakes, Hudson Bay and the Mississippi River basin. Introduced into Arizona in 1926. Large mouth with blue-green striations on the cheeks. Opercle flap is black with reddish or orange border. Bodies olive-green in color, dark vertical bars are faintly seen on sides. Pectoral fin short and rounded. Caudal fin and lower fin margins are white or yellowish with dusky spots at rear of dorsal and anal fins. Length: 3 to 12 inches. Weight: 3 ounces to 1 pound 8 ounces. May live to nine years.

Location/Habitat

Found in most warm water lakes and streams in Arizona and even in a few trout lakes in the White Mountains and Mogol-

See **SUNFISH** on page 8



Think Structure When Angling For Largemouth Bass

Description

Native to the St. Lawrence and Great Lakes, Hudson Bay and the Mississippi River basin: Atlantic drainages from North Carolina to Florida. Introduced into Arizona in 1897.

Very large mouth with upper jaw bone of adults extending beyond rear margin of eye. Dark olive-green on the back with green sides shading to white belly. Dark horizontal band on each side. Coloration is darker and more distinct in clearer water and can pale greatly in highly turbid conditions.

Deep notch in dorsal fin. Soft dorsal fin usually has 12 to 13 rays. Largemouth bass are actually members of the sunfish family, not the true bass family (stripers and white bass). Length: 10 to 28 inches. Weight: 8 ounces to over 16 pounds.

Location/Habitat

Found in most bodies of water statewide except for cool high elevation lakes. A warm water fish that prefers clear water with structure and cover. Generally, bass move to deep water during the day and return to the shallows to feed at night.

Reproduction

Spawning takes place from February to June. The spawn is triggered when water temperatures reach 60-62 F. Largemouths typically build nests, although they will spawn without a nest. Both the nest and the fry are defended by the male. The young move inshore to feed.

See **BASS** on page 8



Table Quality

The meat is white, firm, flaky and has good flavor, but each fillet has a row of Y-bones. By cutting around the bones, they can be removed.



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Redear Sunfish

Redear Sunfish Found Statewide

Description

Native to the Savannah River in South Carolina to Nueces River in Texas, north in Mississippi River basin to southern Indiana and Illinois. Introduced to Arizona in 1946. The "Red-ear" sunfish has a black opercle flap that is bordered with a reddish or orange color on the rear of the flap.

Sides of the head have olive-brown speckling. Body is compressed or flat with an olive-green cast, light speckling on sides. Vertical bars are rarely present on the sides. Pectoral fin long and pointed usually extends far past eye when bent forward. Length: 6 to 14 inches. Weight: 3 oz. to over 3 lbs. May live to 7 years.

Location/Habitat

Found statewide in warm water lakes, ponds and reservoirs. Prefer clear lakes with some aquatic vegetation; relate to deep bottom structure.

Reproduction

Spawns in spring when water warms up. Spawn in shallow ponds, lakes or creeks. There are distinct pairings. Builds nests and guards the eggs and young for a time.

Food

They feed on hard-shelled organisms, such as clams or snails, as well as insect

See **REDEAR** on page 9

Rainbow Trout Considered Excellent Eating

Description

Original range of the rainbow trout was from Northern Mexico to the Kuskokwim River, Alaska. Some stocks existed in the Great Basin and in British Columbia, but none was native to any part of the Colorado River.

Introduced to Arizona in 1898. Olive to bluish on the back, sides dusky green to blue to silver usually with an iridescent, pink to reddish lateral stripe. Many small black spots irregularly scattered on back, sides, adipose and dorsal fin. Distinct radiating rows of black spots on tail fin.

Generally, no spots on pectoral, pelvic and anal fins. Length: 8 to 32 inches. Weight: 6 ounces to over 10 pounds. May live up to 11 years.

Location/Habitat

They are stocked from state hatcheries into most lakes and streams where water



Rainbow Trout

temperatures do not exceed 72 degrees Fahrenheit. Most stocked rainbows are from 9-11 inches with an occasional 3-5 pounder.

Reproduction

Spawn in early spring, most always in streams. "Redds" are dug by the females in the gravel. After fertilization, the female fans the gravel and buries the eggs. This process is repeated for several days until the female is spent. Hatching time depends upon water temperature. Fish reach maturity between 2-3 years.

Food

They feed on plankton, aquatic and terrestrial insects and aquatic invertebrates. Trout vary their feeding based on the availability of food such as hatching insects on the surface, emerging midges rising through the water column, or worms and bugs along the bottom.

Angling

Effective baits are worms, salmon eggs, powerbait, corn, cheese, marshmallows, artificial lures and flies. The number-one key to successful trout fishing, is to use light line (2 to 6 pound) and small hooks (10-14 sizes), and small sinkers.

Table Quality

Depending on the fish's diet, the meat can be white to orange-red in color. The meat is firm, flaky and is considered excellent eating.

Female Roundtail Chubs Have Multiple Male 'Escorts'

Description

Native to Arizona, the roundtail chub is also considered a sport fish because of its hardy fighting ability and willingness to take many of the same baits and lures used for trout. Body is thick and streamlined, dark olive-gray above with silver sides. Mouth extends to front of eye.

Dorsal fin and anal fin usually have 8 to 10 rays. Large forked tail fin. Breeding males develop red or orange coloration on lower half of cheek and bases of paired fins. Length: 8 to 18 inches. Weight: 4 ounces to over 3 pounds. May reach 8 years of age.

Location/Habitat

Found in moderate-sized, perennial rivers throughout the state. Fish occupy pools and eddies, often concentrating in



Roundtail Chub

swift, swirling water below rapids. Fossil Creek has a special artificial lure and fly-fishing season featuring roundtail chub.

Reproduction

Spawning process similar to that of other chubs. Occurs at water temperatures of about 64 degrees, typically in late spring to early summer. Each female is escorted by 3-5 males; eggs are scattered over the bottom. Young chub move to margins of streams to feed and grow.

Food

They feed on algae, aquatic and terrestrial insects, invertebrates and crayfish.

Angling

Roundtail chubs readily take artificial lures and bait and put up a strong fight. Effective lures and bait include small spinners, spoons, flies, worms and crickets. Fishing with ultra-lite tackle and light line is an exciting way to fish for roundtail chub on an Arizona river.

Make sure to check the fishing regulations for special tackle, size limits and bag limits for roundtail chub.

Table Quality

The meat is firm, white and very mild tasting. Intermuscular bones or floating bones are present, which can be cut out prior to cooking.

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SUNFISH

Continued from page 7

lon Rim. Prefer lakes with rocky substrate and piles of rubble, but can be found around brushy banks and cliffs.

Reproduction

Males build nests in shallow pools over gravel, sand or bedrock. The nests are usually within a couple feet of each other. The male guards the nest and hatched fry. Males constantly show defensive displays and fight with other males who come too close.

Tommy, of *The Scottsdale Dirty Drummer*, says the fishing is great at Woods Canyon Lake. Live bait is the thing. I don't think it is the Rainbow trout that Tommy caught at Woods Canyon but they serve a great fish sandwich.

The Scottsdale Drummer is at 2730 North Scottsdale Road, Scottsdale, AZ. Check out their menu at www.thedirtydrummer.com.

Food

Green sunfish will eat anything they can catch and swallow. Aquatic and terrestrial insects and invertebrates are the most common food items. Small crayfish, fish and frogs are all in danger when green sunfish are present.

Angling

Because of their highly predaceous and pugnacious nature, they are one of the easiest fish to catch. They are always hungry and readily bite on small worms and insects. They readily take small jigs, spinners and spoons, as well as nymphs and small streamers. Green sunfish are great for teaching kids how to fish.

Table Quality

The meat is similar to bluegill — white, flaky and excellent tasting

BASS

Continued from page 7

Food

Bass are carnivorous, eating anything that moves. Their main diet is fish, such as, sunfish and shad. They will also take crayfish and aquatic insects when other foods are hard to find.

Angling

Largemouth bass are the second most popular fish in Arizona. They are caught on a variety of baits, both natural and artificial. Depending on the time of the year, bass can be caught in shallow water with a surface lure or deep with jigs or plastic worms.

An angler should think structure when bass fishing. Bass concentrate around submerged trees, aquatic vegetation and underwater drop-offs.

Table Quality

The meat is mild tasting, white, flaky, firm and good tasting.

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Smallmouth Bass Males Do The Babysitting

Description

Native to the upper Mississippi River basin, generally east of the Missouri River drainage, and in the Great Lakes system. Introduced into Arizona in 1921.

Smallmouth bass most often are bronze to brownish green in color, with dark vertical bars on sides. In contrast to the largemouth bass, the upper jaw does not extend beyond the rear margin of eye. Eye reddish in color. Shallow notch in dorsal fin. Soft dorsal fin has 13 to 15 rays.

Smallmouth bass are actually members of the sunfish family, not the true bass family (stripers and white bass). Length: 12 to 22 inches. Weight 8 ounces to 7 pounds. May live up to 26 years.

Location/Habitat

They are abundant in the Black River, Verde River, Roosevelt Lake, Lake Powell and Lake Havasu. Also found in the



Smallmouth Bass

Colorado River for many miles below Lake Havasu in the Parker area and downstream. They prefer rocky habitats in streams and lakes with clear waters.

Reproduction

Typically spawn in March-May when water temperatures reach between 59 and 64 degrees. Males build nests, usually within 150 yards of where the nest was the previous year.

Spawning occurs over several days, the female may spawn with the same or another male. The female is then driven away from the nest and the male cares for

the eggs and young. Females reach sexual maturity at three years whereas males don't until four years of age.

Food

Shad and crayfish are consumed in lakes, and crayfish and minnows in streams. In streams, smallmouth can be very aggressive when hellgrammites and terrestrial insects are available.

Angling

Effective lures for smallmouth are those that resemble minnows, plastic worms and streamer flies. Live baits include minnows, hellgrammites and crayfish. One of the best smallmouth fisheries in the State is the Black River.

Table Quality

The meat is similar to largemouth bass — mild tasting, white and flaky.



Striped Bass

Striped Bass ('Stripers') Found Throughout Colorado River System

Description

Originally native to the eastern seaboard of the United States and Canada, from the St. Lawrence River to Louisiana. Introduced to Arizona in 1959. Unlike smallmouth and largemouth which belong to the sunfish family, stripers are a true bass.

Body has six to nine black horizontal stripes on silvery-white sides. Dorsal fins are distinctly separate, unlike yellow bass, which are joined at the base. Pelvic fins in large adults, white with anal fin edged in white. Lower jaw protrudes beyond upper jaw.

Generally two patches of teeth on tongue. Second anal spine distinctly shorter than the third. Tail is slightly forked. Length: 10 to 56 inches. Weight: 1 to over 65 pounds. May live up to 20 years.

Location/Habitat

Found throughout the Colorado River between Lake Powell and the Mexican border and more recently in Lake Pleasant. Prefer open, clear water.

Reproduction

Spawn in the spring, preferably in moving water. Typically over shallow, rocky areas in a lake or in the fast-moving waters below dams. Eggs float for a period of 2-



Walleye

Walleye Considered One Of The Best-Tasting

Description

Originally native to far north in Canada and Labrador, west of the Appalachian Mountains through the Great Lakes to the Gulf Coast, then west to Kansas, Nebraska and North Dakota. Introduced to Arizona in 1957.

Back is yellow-olive with a brassy cast. Sides are brassy-yellow with dark mottling. Belly is white. Dark spot at rear of spiny dorsal fin. Anal fin and lower lobe of tail fin are white. Namesake eyes are opaque-silver in color. Moderate canine-like teeth. Length: 12 to 29 inches. Weight: 10 ounces, to over 12 pounds. May reach 29 years of age.

Location/Habitat

Found in Lake Powell, Saguaro Lake, Canyon Lake, Apache Lake, Upper Lake Mary, Show Low Lake and Fool Hollow Lake. Bottom-oriented fish, due to their sensitivity to light, preferring to stay in deep water during the day, moving to shallow waters during the night.

Reproduction

Spawn from March until May when water temperature is between 39 and 61 degrees Fahrenheit. Spawn in relatively shallow water, over clean gravel or rocky bottoms.

Spawn in small groups with three or more males per female. Eggs are released and fertilized in a single night. Eggs are adhesive and are not attended by either sex. Hatching occurs between 12 to 18 days.

Food

Walleye prefer fish but will eat crayfish and worms. In Arizona, their main diet is threadfin shad.

Angling

Because of light-sensitive eyes, walleyes feed more actively early in the morning, late in the evening, or at night. Effective lures and baits include, minnows, nightcrawlers, jigs, spinners and minnow imitating plugs.

Fishing with minnows is unlawful in Lake Powell, Lake Mary, Showlow Lake and Fool's Hollow Lake.

See **WALLEYE** on page 17

Tilapia Popular Grocery-Store Item

Description

Exotic from Africa and coastal rivers of Israel. At least four varieties of tilapia have been introduced into Arizona since the 1960s. Extensive hybridization often makes identification difficult.

Similar in body shape to bluegill. Two-part lateral line with front portion higher on body than rear portion. Very long, unbroken dorsal fin and anal fin with pointed ends. Length: 4 to 18 inches. Weight: 6 ounces to over 5 pounds. May live up to 9 years.

Location/Habitat

Found in the Salt and Gila Rivers and in the network of canals and ditches in farming areas between Phoenix and Yuma. Often stocked in canals and artificial lakes for algae and vegetation control.

Isolated populations exist in the Salt River lakes, Alamo Lake, Lake Pleasant, and Roper Lake. Mortality results from prolonged winter exposure to temperatures below 50 degrees Fahrenheit.

Reproduction

Internal livebearers, these fish typically mature between 3 to 6 months of age. Spawning occurs when water temperatures reach 68 degrees. Several species of tilapia are mouthbrooders with the female incubating the eggs inside the mouth where larvae hatch and remain for one week.

The male has nothing to do with the eggs or young. However, the Zilli's tilapia build nests and both male and females guard the eggs and young.

Food

Primarily vegetation and algae eaters, although they will take insects and worms.

Angling

Fish during warmer months with small worms, crickets and dough balls on small



Tilapia

hooks (size 12). Extremely wary and line shy, tilapia are difficult to catch. Use 2-4 pound fluorocarbon line with no weight.

The fish are most aggressive during the spring spawning period. In addition to angling, tilapia may also be taken by bow and arrow, crossbow, snare, gig, spear and speargun as long as none of these methods

See **TILAPIA** on page 17

See **STRIPERS** on page 17



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But Wait! There's More!!
(To Be Continued Next Month)



Game Bag

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15 Best Compound Bows For 2011

By Bob Robb

From The NRA Foundation
And American Hunter

After two days of walking the floor at the annual Archery Trade Association (ATA) trade show in Indianapolis, Ind., and shooting new compound bows from virtually all the major manufacturers, I can safely say that 2011 is a year in which bowhunters shopping for a new compound will have the biggest array of smooth-shooting, quiet and fast bows ever offered.

My assignment here was to choose the best bow from each manufacturer and give you a brief alphabetical overview.

Alpine Archery F1 Fireball

Alpine comes right out and says-in today's and whistles. Enter the 34-inch axle-to-axle F1 Fireball. The bow is centered around Alpine's Velocitec hybrid cam with "Dynamic Load Balancing Technology" (patent pending), a unique design that moves the cable harnesses to the side during the draw stroke, which reduces cam lean and torque. The bow also has a forged riser and parallel limb construction, 6 1/8-inch brace height and an IBO speed rating of 337 fps. It draws smoothly, holds solidly and releases cleanly. The suggested retail price is \$580.

APA Innovations Viper V7

Based in Biggar, Saskatchewan, Canada, APA manufactures very interesting hunting compound bows. Example? It is the only company that builds a neck wrench, broadhead wrench and carbide sharpener right into the bow's riser, and their "Fang Riser" features a small hook



on the top portion of the riser designed to allow the bow to be hung directly from a tree limb.

But, perhaps more interesting is the Cam Lock system that allows you to change out the bowstring and cables without the use of a bow press. The 31 1/2-inch single-cam Viper V7 features 7-inch brace height, APA's new High Efficiency (HE) 3 stage limbs and an IBO speed rating of 332 fps. The suggested retail price is TBA.

Bear Carnage

One of the fastest bows available this year comes from one of the country's oldest bow makers. Bear's new 32-inch, single-cam Carnage boasts an IBO speed rating of 345 fps, and the 7 1/4-inch brace height helps make it simple enough to shoot well.

Perhaps the coolest feature it has is the Skeleton Cam and Idler Wheel, both of which have been machined from 7075 aluminum and have a Tungsten Carbide perimeter weight for balance and a smooth draw cycle. It also has Max Pre-Load Quad Limbs, Bear 4x4 Roller Guard, Dual Arc Offset String Suppressors and a mass weight of 4 pounds. The suggested retail price is \$849.99.

BowTech Assassin

BowTech has established a reputation as an innovative bow maker, and with the Assassin, it offers what it calls a R.A.K. (Ready, Aim, Kill) bow. It comes complete with an assortment of high-quality accessories, including 4-pin TruGlo Apex bow sight, one-piece 5-arrow bow quiver, Octane Hostage XL arrow rest, 4-inch stabilizer, Alloy Peep sight and Fura-Fix string dampening components.

Also included are other BowTech innovations, including the company's signature Binary Cam System with rotating draw length modules. It has a 7-inch brace height and IBO speed rating of 333 fps. Best of all, the entire thing carries a suggested retail price of \$649.

Darton Archery DS 3800

DS stands for DualSync, a unique Darton cam design that includes a second let-out groove on each cam that anchors the opposite end of each power cable instead of anchoring it to the axle. This year's model also has slightly deepened grooves on the cams as well as a fresh design on the Progressive Torque Reduction (PTR) cable guard.

The PTR is a curved rod that brings the cables back to the centerline of the bow during the draw cycle, which helps greatly to reduce limb torque-making the bow more "shootable." You can adjust the draw length between 25-31 inches without a bow press. The bow is 34-inches axle-to-axle, and has a 6-inch brace height. IBO speed rating is 345 fps. The suggested retail price is \$829.99.

Elite Archery Pulse

Elite Archery's 34 1/2-inch axle-to-axle Pulse weighs 4.3 pounds, and it was one of the most stable bows I shot at this year's

See **BOWS** on page 14



SHOT Show's 10 Best Hunting Guns

By NRA Staff

From The NRA Foundation
And American Hunter

With thousands of manufacturers rolling out new products at the 2011 SHOT Show, the AmericanHunter.org team knew it had to have a game plan.

What was our strategy? To find as many new hunting guns as we could get our hands on. After fondling more than our share of new deer slayers, duck killers and a few surprises, we've picked the 10 best hunting guns from SHOT Show 2011 (in no particular order).

Mossberg Turkey Thug Shotgun

Mossberg is stepping up its efforts to serve turkey hunters everywhere this year with the new Turkey Thug line of shotguns. There will be four models offered which come complete with the Lightning Pump Action (LPA) trigger system, adjustable fiber optic sights and an engraving on the receiver that reads "Turkey THUG Series."

The shotguns will be exclusively featured on Mossy Oak's Turkey Thug show in 2011-12, which airs on the Pursuit Channel. Despite its unconventional name, the Turkey Thug is said to perform flawlessly in the field. We'll be testing that notion this spring.

You can pick up the top of the line

See **GUNS** on page 14

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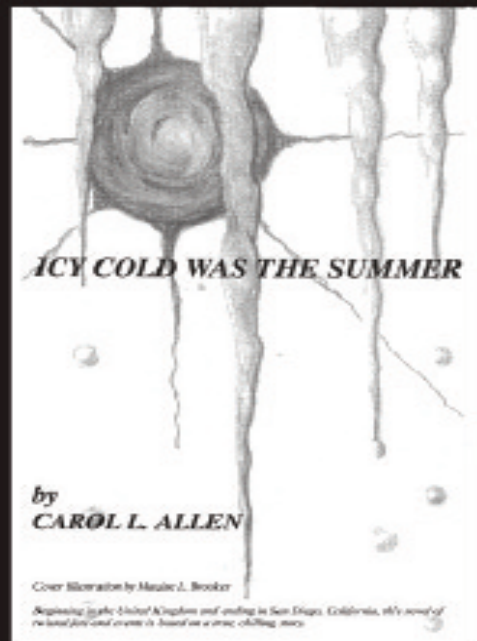
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Cover illustration by Marilee J. Brooker

Beginning in the United Kingdom and ending in San Diego, California, this novel of two lives and a crime is based on a very chilling story.



Hydronic Heating System Makes Travel Comfortable

Dependable heat and plentiful hot water make RV travel homier and more comfortable. The Aqua-Hot 375-LP hydronic heating system/hot water heater is a powerful unit in a small package. Fueled by propane, the self-contained unit provides uniform cabin heat and continuous, on-demand hot water. The innovative system is so popular, it was one of the top-viewed products on the RV Daily Report in 2010.

Unlike noisy, forced-air systems, the advanced Aqua-Hot 375-LP provides warmth by circulating hot water through discreet heat exchangers. Three thermostat-controlled heating zones and two circulation loops ensure consistent warmth

throughout the cabin. The heating system is ideal for gas-fueled recreational vehicles, towable and park models as well as Class A diesel motorhomes.

The compact Aqua-Hot 375-LP provides an unlimited supply of hot water and eliminates the need for a storage tank. With zero recovery time, the unit has a continuous flow rate of 1.5 gallons per minute of 120°F water. For washing clothes and dishes and taking showers, it can generate up to 90 gallons of hot water an hour.

The innovative and economical system heats to 37,500 BTUs in just 3.37 minutes,

See **HEATING** on page 17



HOT H2O — The Aqua-Hot 375-LP hydronic heating system/hot water heater is a powerful unit in a small package.

Flexible Cleaning Combo Reaches Tough Spots



WITHIN REACH — Trying to clean the hard-to-reach areas of an RV can be frustrating. But, those times can be easily eliminated with Shurhold's flexible and soft washing tool, the Swivel Pad Combo.

Trying to clean the hard-to-reach areas of an RV can be frustrating. But, those times can be easily eliminated with Shurhold's flexible and soft washing tool, the Swivel Pad Combo.

Part of Shurhold's exclusive One-Handle-Does-It-All System, this adaptable combo includes a swivel pad base and synthetic lamb's wool cover. The swivel pad's free-floating design easily follows contoured surfaces and fits into narrow

spaces and under roof-mounted equipment.

The pad adapter attaches to any of Shurhold's telescoping or fixed-length handles with the positive-locking Shur-Lok quick release system. This system keeps the attached cleaning accessories in place during use.

A synthetic lamb's wool replacement

See **CLEANING** on page 17

Unique Stereo Slides Into Cup Holders

ATV, motorcycle and golf cart dashboards don't leave much room for a stereo. But, Prospec Electronics' Millennia MIL-PRV15 Stereo easily slides into current cup holder or gauge openings, supplying entertainment in a convenient and cost-effective package.

This small stereo features AM/FM radio, USB and Aux-in for connecting portable media devices. The MIL-PRV15 doesn't require any cut-outs and is great for retrofit or OEM applications. For those without a gauge or cup holder, they can use a hole-saw to create a cut-out.

The MIL-PRV15 operates at 4 x 40 watts. A solid aluminum chassis, as well as IP-66 and ASTM 117 salt fog ratings make it durable. The MIL-PRV15 has an installation depth of 1-5/8" not including wires and an outside dimension of 3-1/2".



SMALL STEREO — Prospec Electronics' Millennia MIL-PRV15 Stereo.

See **STEREO** on page 17

Environment-Friendly Holding Tank Additives Control Odor

While going green seems to be just a trend for some companies, Thetford's commitment to protecting the environment has always been strong. The company's high-quality line of Eco-Smart Holding Tank Deodorants are certified-green by North America's oldest, most-recognized environmental standard organization, EcoLogo.

The organization's stringent criteria require a holding tank additive to control odors and help decrease waste materials, as well as being biologically-based and non-toxic. It must not harm humans, riparian or aquatic species, not accumulate in the environment, have limited surfactants that are biodegradable and be effective and safe to use.

Quickly breaking down and liquefying waste and tissue, Eco-Smart's formaldehyde-free formula helps to prevent messy clogs. Extremely powerful, it provides 70% better odor control than other natural formulas. It also incorporates an additive that keeps tanks clean.

This formula's non-staining green dye washes clean with soap and water. Available in liquid or Toss-In form, they are the ultimate in convenience for any boat owner.

Eco-Smart is also offered in an enzyme formula. Similar to the formaldehyde-free formula, it quickly breaks down and liquefies waste and tissue. This natural, enzymatic deodorizer includes a detergent additive, allowing tanks to stay clean.

See **ADDITIVES** on page 15

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IT'S FOR THE BIRDS

Margie Allen, *Birding Editor*



Bird-Feeding: Second Most Popular Hobby In U.S.A.

History

James Fisher has written that the first person recorded as feeding wild birds was the sixth century monk Saint Serf of Fife who tamed a robin by feeding it. In the harsh winter of 1890-91 in Britain, national newspapers asked people to put out food for birds.

In 1910 in the United Kingdom, *Punch* magazine declared that feeding birds was a "national pastime." Bird feeding has grown into the United States' second most popular hobby behind gardening.

To celebrate the bird-feeding hobby, February was named National Bird-Feeding Month by congressional decree in 1994.

Activity

Bird feeding is typically thought of as an activity of bird enthusiasts. People who feed wild birds often attempt to attract birds to suburban and domestic locations. This requires setting up a feeding station and supplying bird food.

The food might include seeds, peanuts, bought food mixes, fat, kitchen scraps and

suet. Additionally, a bird bath and grit (sand), that birds store in their crops to help grind food as an aid to digestion, can be provided.

Feeding bread to waterfowl at parks, lakes and rivers is also a popular activity.

Types

Certain foods tend to attract certain birds. Finches and siskin will be attracted by niger and jays love corn. Hummingbirds love nectar. Mixed seed attracts many birds. Black oil sunflower seed is favored by many seed-eating species. Different feeders can be purchased specialized for different species.

Garden birds can be fed using peanuts, seed, coconut or fat using a variety of feeders.

After the station is established, it can take some weeks for birds to discover and start using it. This is particularly true if the feeding station is the first one in an area or (in cold-winter areas) if the station is being established in spring when natural sources of food are plentiful.

Therefore, beginners should not com-

pletely fill a feeder at first. The food will get old and spoil if it is left uneaten for too long. This is particularly true of unshelled foods, such as thistle seed and suet.

Once the birds begin taking food, the feeder should be kept full. Additionally, people feeding birds should be sure that there is a source of water nearby. A bird bath can attract as many birds as a feeding station.

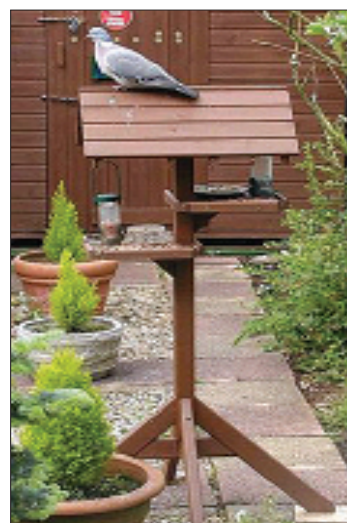
Impact

A study conducted in the city of Sheffield, UK, found that the abundance of garden birds increased with levels of bird feeding. This effect was only apparent in those species that regularly take supplementary food, raising the possibility that bird feeding was having a direct effect on bird abundance.

In contrast, the density of feeding stations had no effect on the number of different bird species present in a neighbourhood.

The use of bird feeders has been claimed to cause environmental problems; some of

See **FEEDING** on page 18



FOR THE FEATHERED FRIENDS

Different Ways Of Setting Their Table

A birdfeeder, bird feeder, bird table, or tray feeder are devices placed outdoors to supply bird food to birds. The success of a bird feeder in attracting birds depends upon its placement and the kinds of foods offered, as different species have different preferences.

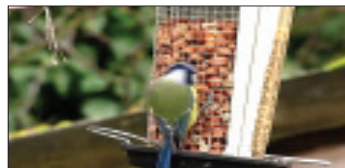
Most bird feeders supply seeds or bird food, such as Millet, Sunflower (Oil and Striped), Safflower, Niger seed, and rape-

seed or canola seed to seed-eating birds.

Bird feeders often are used for bird-watching and many people keep webcams trained on feeders where birds often congregate.

Types Of Feeders

Seed Feeders — Seed feeders are the most common type. These can vary in design from tubes to hoppers and trays. Sun-



flower seed or mixed seed are popular for use in these feeders and will attract many songbirds such as cardinals, finches, and chickadees.

Black Oil Sunflower seed is especially popular with bird enthusiasts. The outer shell of Black Oil Sunflower seeds are thinner and easier to crack than other types of Sunflower seeds. In addition, the kernel is larger than striped or white sunflower seeds. Black Oil Sunflower seeds also contain a large amount of fat; therefore, they are especially good to use in the winter.

Most bird feeders are designed to dispense sunflower-sized foods, but there are specialty "finch feeders" with smaller openings to dispense the tiny *Guizotia abyssinica* (Niger seed), which is a favorite of smaller finches.

Hummingbird Feeders — Hummingbird feeders, rather than dispensing seed, supply liquid nourishment to hummingbirds in the form of a sugar solution. This mixture is often colored red to attract birds. Likewise, some Hummingbird feeders have red accents or red glass to help attract hummingbirds.

Yeasts tend to grow in hummingbird feeders and spoil the solution, so they must be refreshed frequently and kept very clean to avoid harm to the birds. Ants and other insects are also attracted to hummingbird nectar. Smearing petroleum jelly on the feeders may prevent the ants from crawling to the feeder, but the birds cannot clean the petroleum jelly from their feathers, so alternative methods should be found.

Hummingbird top fill feeders are popular among bird lovers because they are easy to fill and clean and also because they do not need to be turned upright which means that there are less chances that the nectar is spilled.

The sports-bottle top-fill hummingbird feeders have the design of a sports bottle, with a mechanism that works similarly to such a bottle. With this type of feeder, one has to push down the plastic container in order to close the nectar reservoir and then to unscrew the cap and pour the nectar. After the cap is replaced, the body of the nectar reservoir can be pulled up.

This type of bird feeder has the advantage that the feeder does not need to be

BIRD FOODS

What's On The Menu?

Bird food is, obviously, food (often varieties of seeds) eaten by birds. Humans generally make or buy bird food to feed to pet birds or use in birdfeeders. Birdfood can be natural or commercial. The choice of what to use as birdfood depends on the species of bird being fed.

Natural Bird Food

Seed — Black sunflower seeds are highly recommended for use in bird feeders because they attract a wide variety of birds, have a high ratio of meat to shell, and are high in fat content. Other common birdseeds include niger, or thistle seed, a favorite of goldfinches, millet for sparrows and juncos, and safflower for cardinals, among others.

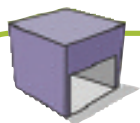
Non-Seed — Not all birds eat seeds. Suet (beef or mutton fat) is recommended for insect-eating birds like nuthatches and woodpeckers. Nectar (essentially sugar water) attracts hummingbirds.

Bread and kitchen scraps are often fed to ducks and gulls. Chickens are commonly fed corn, wheat, barley, sorghum and milling by-products.

These seeds and non-seed supplies are commonly obtained as by-products on farms, but can also be bought from independent retailers.

Commercial Bird Food

Non-Farm — A wide variety of commercial bird food is available to bird owners, combining a variety of seeds in a single mix. Individual types of bird tend to pick out their favorite seeds and leave the rest uneaten, to be picked up by other birds.



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See **TABLE** on page 15



ETHANOL 101

WHAT YOU NEED TO KNOW ABOUT E10 / ETHANOL FUEL

4 MAIN PROBLEMS WITH E10 / ETHANOL FUEL

PROBLEM 1: DEBRIS IN FUEL

Gums rapidly form in the fuel tank and fuel delivery systems as ethanol fuels age. However, ethanol is also a powerful solvent that will strip away and disperse this build up back into the fuel as large, performance-robbing particles. This leads to clogged filters, injectors and carburetors.

STAR TRON® SOLUTION: Star Tron®'s enzymes break down debris into sub-micron sized particles that can be easily burned during the combustion process, restoring full performance.

PROBLEM 2: EXCESSIVE WATER IN THE FUEL AND PHASE SEPARATION

Ethanol attracts moisture from the atmosphere, forming an ethanol/water solution mixed in the gasoline. E-10 fuel will naturally hold .5% water in suspension, but when water levels exceed this threshold, or when the fuel cools significantly, the water/ethanol mix drops out of suspension. This is phase separation. Excessive water in the fuel tank causes engines to run rough, stall, and can lead to internal damage to engine components. Ethanol provides a significant amount of the fuel's octane, so when the ethanol/water solution separates and drops to the bottom of the tank, the remaining fuel is left without enough octane to properly operate the engine. Additionally, the ethanol/water solution can become partially combustible, which can lead to engine damage.

STAR TRON® SOLUTION: Star Tron®'s enzyme formula reduces interfacial surface tension between fuel and water. The molecular cluster size is greatly reduced, allowing more water to be dispersed throughout the fuel. These sub-micron sized droplets are safely eliminated as the engine operates. Star Tron® treated fuel helps prevent phase separation by allowing more water to be burned off than with untreated fuel, drying out the tank and preventing water buildup.

PROBLEM 3: ETHANOL FUELS BREAK DOWN QUICKLY

Over a short period of time ethanol fuel begins to break down. As ethanol and other components evaporate, the fuel loses octane and becomes "stale." This causes hard starts, pinging and engine knock, which robs your engine of power and can cause damage.

STAR TRON® SOLUTION: Star Tron® is a powerful fuel stabilizer which helps prevent fuel breakdown for up to two years. This results in easier starts and prevents pinging and knocking. Star Tron® improves octane levels of sub-standard, non-spec or old fuel and in many cases can rejuvenate stale fuel, restoring it to serviceable condition.

PROBLEM 4: ETHANOL CAUSES LOST POWER, PERFORMANCE AND DECREASED FUEL ECONOMY

Ethanol fuel does not produce as much energy as traditional fuel. This results in inefficient combustion, decreased performance, reduced throttle response and poor fuel economy.

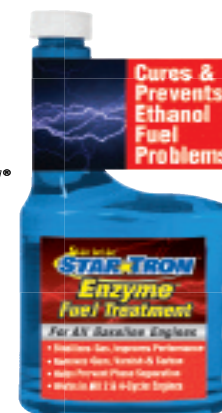
STAR TRON® SOLUTION: Star Tron®'s enzyme formula helps to break apart large clusters of fuel molecules, creating more surface area. This allows additional oxygen to react during combustion, which results in a more complete burn of the fuel, improved fuel economy, engine power, throttle response and reduced toxic emissions. Star Tron® removes carbon deposits, keeping your engine clean and operating at peak performance.

Star Tron® is a unique, multifunctional fuel additive that addresses all ethanol issues. Star Tron® has been solving fuel problems for boaters across the US since 2003. It will improve the performance of: boats, cars, trucks, motorcycles, snowmobiles, ATVs, PWCs, generators, lawn & garden equipment and all other gas-powered engines. Star Tron® is safe for use in all 2 and 4-cycle engines under all conditions, even in ethanol fuels. Star Tron® is an ideal all-season, all-purpose additive, and does all this at one of the lowest costs of any fuel additive.

Be careful of what additive you use – many contain alcohol. Adding more alcohol to ethanol fuels can lead to engine problems. Read the MSDS of any fuel additive before using it with ethanol fuel. Star Tron® does not contain any alcohol and is 100% safe for use in all ethanol blends. Star Tron® is easy to use, effective and cannot be overdosed.



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GUNS

Continued from page 10

model, the Turkey Thug 835, for \$642.

Benelli Super Vinci

Benelli USA is maintaining the reputation it gained for marketing genius in 2009 with its efforts at the 2011 SHOT Show. They're calling the newest addition "the evolution of the revolution."

The Super Vinci comes complete with a catchy new commercial, user-friendly website and the aforementioned slogan. The shotgun's In-Line inertia driven system has been redesigned to handle 3 1/2-inch magnum loads. It also features the QuadraFit buttstock, the ComforTech Plus

recoil reduction system and a newly styled lower receiver.

With improved ergonomics and an enlarged safety button and trigger guard, this gun should please every waterfowler in your crew. It can be yours for a MSRP of \$1,750.

Nosler Custom M48 Legacy

The new NoslerCustom Model 48 Legacy Rifle is guaranteed to deliver 3/4-inch or better, three-shot groups at 100 yards using Nosler ammo. The Model 48 action is glass-pillar bedded and mated to a hand-lapped, free-floating 24-inch match grade chrome barrel that has been custom chambered for each cartridge.

The Legacy Rifle integrates a mid-

night-colored cerakote finish on all exterior metals along with the unique MicroSlick coating on interior metal surfaces. The select American black-walnut stock is an absolute beauty, making this complete-package rifle fit to bare the Nosler name. The MSRP for the Model 48 Legacy is \$2,195.

Gamo Varmint Hunter HP .22 Cal.

Gamo has added a durable, all-weather solution for pest control and small-game hunting to its line with the new Varmint Hunter HP. This .22 caliber air rifle comes with a lightweight, molded synthetic stock; fluted polymer jacketed rifled steel 18-inch barrel and a heavy duty power plant that produces 1,000 fps with PBA

ammo.

The package also comes with a 4x32 rifle scope with rings, a laser sight and flashlight. This airgun has all the reliability and power of every Gamo offering with the ability to track down your target at night. The upgraded version Varmint Hunter Series is available for \$289.95.

Ruger Gunsite Scout Rifle

No, this rifle wasn't built exclusively for hunting purposes, but it's such a perfect display of precision that it can undoubtedly handle any shooting task with ease. In short, it's one wicked gun.

Developed with help from Gunsite in-

See GUNS on page 17

BOWS

Continued from page 10

show. It is also quick, with an IBO speed rating of 340 fps. It has the very smooth EFX cam, with modules from 26-30 inches in 1/2-inch increments, and a very deep valley, which means the draw is super smooth. The suggested retail price is \$699.

G5 Prime Series

G5 is best known for its Montec broadheads, but their bows are also quite good. The Prime attacked a problem that many in archery have been discussing for some time—cam lean, which describes cams that lean slightly one way or the other when the bow is drawn and is something that can affect both consistency and accuracy.

G5's Parallel Cam Technology balances the load equally on both sides of the cam, which both eliminates this issue and reduces horizontal nock travel. Also featured are forged 7000 T6 aluminum risers, C-1 Laminated Limbs, a TI-Glide Titanium Flexing Cable Guard System and Gore Fiber String & Cables.

Two models are available, the 30-inch Shift and 34-inch Centroid. I like medium-length bows, so the Centroid is the one I gravitated towards. It has a 7-inch brace height and an IBO speed rating of 332 fps. Both models carry a suggested retail price

tag of approximately \$1,000.

Hoyt CRX Series

I love Hoyt hunting bows, and have shot different makes and models a lot over the past 30 years. The new CRX series (CRX 32 and CRX 35) is based on what the company's engineers call the "sleekest, leanest TEC Lite riser ever." They also feature XTS Pro Arc limbs and the efficient Fuel Cam, which together produce a fast, quiet and forgiving bow.

The difference is overall length, the 32 being 32-inches axle-to-axle, and the 35 being 35-inches long. IBO speeds are 323 and 318 fps, respectively. Top features include Hoyt's In-Line Roller Guard, StealthShot String Dampener and the same offset stabilizer found on the high tech—and very expensive—Carbon Element bows that is designed to counterbalance attached accessories like a bow quiver.

These bows are hot stuff. The suggested retail price is \$799.99.

Limbsaver Proton

Best known for its superb vibration-dampening products, Limbsaver also builds some very fine hunting bows. This year's new 32 1/2-inch Proton is just one example. It features a reflexed riser—which helps make it very shootable—and a new cam system that moves the cable string

track to the other side of the cam, which pretty much eliminates cam lean and torque.

It also has the only precisely adjustable draw weight system with the unique Posi-Lock technology that permits limb weight adjustments in exact 2-pound increments. The Proton has a 7-inch brace height, weighs in at 3.8 pounds and has an IBO speed rating of 330 fps. And as you might expect from a company that specializes in noise reduction, vibration and noise are essentially nonexistent. The suggested retail price is \$749.99.

Martin Archery Firecat 400

Gale Martin was one of archery's true pioneers, and Martin Archery continues that tradition today with such cool hunting bows as the 32-inch Firecat 400. With a 7-inch brace height and IBO speed of 335 fps, it is an excellent choice for serious bowhunting.

Here are two very cool yet subtle features unique to some new-for-2011 Martin compounds: First, the Torque Reducing Cable Guard (TRG) lets cables move naturally as the bow is drawn, then moves them out of the way when the string is released—which pretty much eliminates cam lean and torque.

The String Oscillation Suppressor (SOS) is designed with a bracket that holds string dampening material loosely, which permits it to move at the shot for better vibration absorption. The suggested retail price is \$599.99.

Mathews Z7 Xtreme

Though they do not exhibit at the ATA show, no report would be complete without featuring Mathews Archery. Last year's Z7 bow was so successful that this

year they are offering a few variations on that theme, of which the new Z7 Xtreme appears to be the best of the bunch.

It features the unique Grid Lock Riser, parallel limb design, Reverse Assist Roller Guard, SlimFit Inline Grip, Zebra Baracuda bowstring and Mathews string suppressors. It is only 28-inches axle-to-axle and weighs less than 4 pounds, which would normally make it tricky to shoot, but the 7 3/8-inch brace height helps solve that dilemma. IBO speed rating is 330 fps.

The other bows in this family include the eZ7, Z7 magnum and Z9. You really need to shoot one at your local dealer to understand what all the fuss is about. The suggested retail price is \$899.

Mission Archery Craze

If you are looking for the ultimate in adjustability, no other bow on the market can touch the Craze. Say what? How about a bow that has a draw length adjustment between 19-30 inches and draw weight adjustment from 15-70 pounds—without changing limbs or cams? Or a bow press? Are you kidding me?? It's 28-inches axle-to-axle and has a 7 1/2-inch brace height and can reach IBO speeds of 308 fps.

This bow is good for young or beginning bowhunters who are learning to shoot and will grow into their bow as they do. And, with a suggested retail price of \$299, you have to give it a look. I have shot one, and this thing is no toy.

New Breed Archery Split Limb Genetix

A young, innovative company, New Breed Archery's 33 1/2-inch split limb Genetix bow really caught my eye. It has a 7-inch brace height, mass weight of just 3.8 pounds and an IBO speed rating of right at 340 fps.

It features the company's Bow Rattler String Suppressor and Vapor Trail VTX bowstring and cables and two-track Bionix Cam System. The bow has a firm wall at the back end, which makes it simple to draw and shoot both easily and accurately.

PSE Bowmadness XL

Precision Shooting Equipment has several really cool new bows this year, but the 36-inch long Bowmadness XL stood out from the rest. This single-cam hunting bow has an IBO speed rating of 340 fps, and when you shoot it you notice that it is very quick but also very quiet and lacks much vibration.

It has a 6-inch brace height, 75 percent let-off, and features PSE's unique Posi-Lock inner cam module that makes changing draw length as quick and easy as it can possibly be. The other thing I like about this bow is its suggested retail price of \$699.99, making it a couple hundred bucks less than many other high-end hunting bows.

Winchester Archery Quicksilver 34

The Winchester name on bows? Absolutely! And, the new split limb Quicksilver 34 produces an IBO speed rating of 343 fps in a very shootable package. The 34-inch bow features a 7-inch brace height, patent-pending Accu-Speed Technology (AST) eccentrics and a true 2-Track system that allows the premium Stone Mountain rigging to positively synchronize one cam to the other.

It also has a compression-forged and machined aluminum riser and a mass weight of 3.9 pounds.

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DOWNSTREAM Events Calendar Beginning Mid-June

BOATING

CARDBOARD BOAT REGATTA: July TBA — Lake Havasu City; South end of Rotary Park, begins at 9 am, 928-208-8315 or www.golakehavasu.com

SLEEKRAFT MAGIC BOATS REGATTA: June TBA: — Lake Havasu City; Sleekcraft Magic Boats Regatta — Nautical Inn Resort, 928-855-2141 or www.golakehavasu.com

AZ YACHT CLUB MEETINGS: Second Tuesday of every month 7 p.m. — 19th Tee, Rolling Hills Golf Course, 1415 N. Mill Ave., Tempe; www.arizonayachtclub.org

CAMPING/RVING/AZ OUTDOOR ACTIVITIES

For updates on the Arizona wildfires, wildlife resources, and other related material, visit www.azgfd.gov/wildfires.

FISHING

132ND ANNUAL PIONEER DAYS: July TBA — St. John's; Dutch oven cooking lessons, basketball & golf tournaments, storytelling, dances, fishing derby, parade, campfire circle, rodeos, ice cream social, BBQ, 928-337-2000 or www.stjohnspioneerdays.wordpress.com

SHOWS/EXPOS

ICAST 2011: July 13-15 — Las Vegas, Nev.; www.ICASTfishing.org

WATERSPORTS

Diving:
SAGUARO DIVING & SPORTS: Ongoing — Learn to Scuba Dive, Open Water Certification Dives, Private Class & Pool, Private Lake Open Water Certification Dives, San Carlos, Mexico; Lake Pleasant,

and more; Saguaro can plan your diving vacation for small groups or just one person. How about Grand Cayman, Curacao, Cozumel, Belize, Roatan, Bonaire, Turks & Caicos? Contact Saguaro Diving & Sports, 908 E. Impala Ave., Mesa, AZ 85204; (480) 507-3988 or sales@saguarosports.com

Swimming:
USA DIVING JUNIOR NATIONAL CHAMPIONSHIPS AND AGE GROUP NATIONAL CHAMPIONSHIPS: July TBA — Tucson; University of Arizona, Hiltenbrand Aquatic Center (1827 Enke Dr, 85721), top-level national competition bringing 500 divers to Tucson, \$7-33, http://web-point.usadiving.org/wp/Products/ListEventTickets.asp?prd_CustomFid=266

PRESCOTT VALLEY 4TH OF JULY CELEBRATION: July TBA — Mountain Valley Park, (8600 E. Nace Ln), water activities, concert, food and fireworks bring a lawn chair, 928-759-3090 or www.pvchamber.org

FREEDOM FEST: July 4 — Florence; Florence Pool & Heritage Park, (600 N. Main St.), family day events, horseshoe tournament, Florence "Fiery Salsa" challenge, red, white and blue family parade, pool activities, entertainment, vendors and fireworks show, 520-868-7589 or www.visitflorenceaz.com/ or www.florencemainstreet.com

27TH ANNUAL MOUNTAIN MAN TRIATHLON: July 17 — Flagstaff; Lake Mary, Sprint: swim 700 meters, bike 10.6 miles, run 3.1 miles; Olympic: swim 1500 meters, bike 24.9 miles, run 6.2 miles, spectators free, 6:30 am, 928-526-8761 or www.trifind.net or www.mountainman-events.com

WILDLIFE-RELATED

9TH ANNUAL HIGH COUNTRY HUMMERS EVENT: July TBA — Springerville-Eagar; Sipe White Mountain Wildlife Area,

interact with independent hummingbird researchers, exhibits featuring live hawks and owls, bird walk, slide presentation, explore the visitor center's displays on wildlife, habitats, prehistoric culture and conservation, free, 8 am — noon, 928-367-4281

HUMMINGBIRD BANDING AT SAN PEDRO HOUSE: June TBA — Sierra Vista; San Pedro House, (9800 E. Highway 90), get an up-close look at the catch, band, weigh, measure and release by licensed banders of the tiny birds for research purposes, 4-6 pm, 520-432-1388 or www.sabo.org

AUDUBON PRESENTS 'BIRD WALK-GRASSLANDS AND RIVER: June TBA — Sierra Vista; San Pedro House, (9800 E. Highway 90), Join members of the Huachuca Audubon Society on a bird walk at the San Pedro River, 7 am, 520-417-6960 or www.sanpedroriver.org

HUMMINGBIRD FESTIVAL: June 25 — Flagstaff; The Arboretum at Flagstaff, (4001 S. Woody Mountain Rd., 86001), learn from experts about the habits of native hummingbird species and how to attract them to your garden, tour the gardens to find out plant species that will work in your zone, families can participate in hands-on activities, \$3-7, 9 am — 5 pm, 928-774-1442 or <http://www.thearb.org>

BUTTERFLY WALK: July TBA — Superior; Boyce Thompson Arboretum State Park, learn to identify common species of butterflies and about the insects' life cycles on a two-hour walk, 9:30 am, 520-689-2811 or www.azstateparks.com

DRAGONFLY WALK: July TBA — Superior; Boyce Thompson Arboretum, parents and kids can learn to identify colorful dragonfly species during a one-hour walk, \$3-7.50, 9:30 am, 520-689-2811 or <http://arboretum.ag.arizona.edu>

LEARN YOUR LIZARDS: July TBA — Superior; Boyce Thompson Arboretum, educates participants how to identify common species such as Western whiptails, Tree Lizards, Side-blotched and Greater Earless, family-friendly walk, meet at the visitor center, \$3-7.50, 8:30 am, 520-689-2811 or <http://arboretum.ag.arizona.edu>

BIRD WALK AT THE ENVIRONMENTAL OPERATIONS PARK: Through June 26 — Sierra Vista; 2.5 hour walks led by docents from Southwestern Arizona Bird Observatory, Huachuca Audubon Society and the Friends of the San Pedro River, free, but donations appreciated, 8 am, 520-432-1388 or <http://www.sierravista.com>

Editor's Note: Please submit announcements for AZBW/WOT's calendar of events — "Downstream" — to editor@azbw.com. To guarantee placement, as room allows, items must be received by the 10th of the month prior to publication. Every effort is made to ensure accuracy, but we assume no responsibility for print errors or omissions. We also reserve the right to edit each item. Please include the name of the event, the date and time, the location, the organization, and contact information.

ADDITIVES

Continued from page 11

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Contact local dealers or Thetford Marine, 7101 Jackson Road, Ann Arbor, MI 48103. Toll-free 800-543-1219 or 734-769-6000; Fax: 734-769-2023. info@thetford.com; www.thetford.com.

Wake Zone™

Ladies and Gentlemen Sailors and Racers:

As you may be aware, the date for the 44th Marina Del Rey to San Diego Race this July 2-3rd is coming up real soon.

I wanted to take this opportunity to personally invite you to participate in this great event celebrating the birth of our Nation, which has for years been one of the premier events in our Marina Del Rey and in the coast of California offered by Santa Monica Windjammers Yacht Club and

Southwestern Yacht Club.

Specially this year since the Marina Del Rey to Puerto Vallarta has been canceled, this would be a great opportunity for us all to enter this event, start in our own Marina, race down to a GREAT location within the safety of our borders and still be back in time for your own barbeque plans if you so desire.

As a further incentive, the first 20 entries will receive a free event T-Shirt, we are to have a great party at our club on the 1st of July (Friday) with Painkiller's Rum with Chocolate covered Strawberries spe-

cial, a BBQ dinner to start the festivities and a breakfast to participants and their crews on the morning of the 2nd prior to the start of the skipper's meeting.

So get organized, get the crew and boat ready and come party down with us and a relaxed cruise back as we celebrate the freedom that a race such as this brings.

For more information, visit us at our website SMWYC.org, call us at 310-827-7692 or contact me Themis Z. Glatman at 818-425-8752.

Best regards...
Themis Z. Glatman

MUFFLER

Continued from page 6

for parasail operators. The versatile craft features a Cummins 8.3 QSC 490 hp in-board diesel engine and Marine Exhaust Thinline Muffler system. It cruises at 26 knots at 2,200 rpm, with a top speed of 30 knots at 2,500 rpm.

"I love how quiet the Thinline Mufflers are," said Commercial Water Sports owner Rob Guarini. "Noise level is important, especially with the canopy on the back of the boat."

Normal-tone conversation can be easily heard over the extremely quiet Thinline Mufflers' engine exhaust sound. With a low-profile, compact design, the versatile systems can be configured for a wide variety of applications. Constructed of biaxial E-Glass/Vinylester, a fire retardant Hexion FR 998 resin, they feature a white gelcoat finish and 316L stainless steel, crush-resistant rings at the muffler hose connections.

"The installation was clean. The muffler fit our application perfectly, directing exhaust away from the parasailer. Marine Exhaust is a fantastic company to work with," said Guarini. "There were never any issues and everything was on time."

A local leader in the design, production and service of marine diesel exhaust components, Marine Exhaust Systems has

TABLE

Continued from page 12

turned upside down to be refilled and which results in less nectar wasted by spilling. The traditional top-fill hummingbird feeders are ones of the most popular bird feeders. There is also a plunger type of top-filling hummingbird feeder that comes with a small plunger in the container that creates the vacuum seal when the lid is tightened and the nectar will start flowing only when the lid is sealed correctly to the feeding ports.

The bottom-fill hummingbird feeders include a traditional bottom fill feeder and several variations of it. The traditional ones are filled from an opening at the bottom of the nectar container but many manufacturers have come up with improved variations of the traditional style of feeder, to make feeding birds easier and with less nectar wasted. Some bottom fill feeders come with a funnel-like opening at the bottom of the container, through which the feeder is filled.

Other bottom filled hummingbird feeders can be attached to one's window to provide a close-up of the birds.

Oriole Feeders — Oriole feeders, which are traditionally colored orange, also supply such artificial nectar and are designed to serve New World orioles, which have an unusually shaped beak and tongue. These orioles and some other birds also will come to fruit foods, such as grape jelly, or

half an orange on a peg. Hummingbirds will also feed from Oriole feeders.

Oriole feeders usually have nectar containers made of glass or plastic, which are designed to attract the orioles. Oriole feeders should be cleaned at least once a week and even more often when the temperatures are higher. Oriole feeders also come in top fill, bottom fill and dish-like designs.

Suet Feeders — A suet feeder is typically a metal cage-like construction with a plastic coating that contains a cake or block of suet to feed woodpeckers, flickers, nuthatches, and many other species of insect eaters. Suet logs are also very common. These wooden logs have holes drilled out for suet to be inserted. Suet is high in fat which helps to keep birds warm and nourished during the cold winter.

Squirrel Proofing — Seed feeders are mainly squirrel proof, tube-like or hopper. Due to the need of keeping squirrels away from the bird food, manufacturers have created different defense mechanisms that may deter squirrels from getting close to the seed.

Some seed feeders come with mechanisms that are weight sensitive and which shut off the access to the seed ports whenever a heavy weight is detected. Birds can still feed as they weigh less and the ports remain open under their weight. Other seed

See TABLE on page 18



A BETTER SOLUTION — These customizable systems direct exhaust away from the back of the boat, for safer and more enjoyable parasailing experiences.

provided full-spectrum exhaust solutions from turbo to transom since 1973. It is the only manufacturer that designs and fabricates both stainless steel exhaust pipes and fiberglass components.

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Contact local dealers or Marine Exhaust Systems, 3640 Fiscal Ct., Riviera Beach, FL 33404. 561-848-1238; Fax 561-848-1298. info@marine-exhaust.com; www.marine-exhaust.com.



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SAILING

LAKE PLEASANT SAILING CLUB — If you own a sailboat and are looking for a fun group of people to sail with, consider The Lake Pleasant Sailing Club. Held every monthly except for July at Rolling Hill's 19th Tee (Rolling Hills Golf Course) 1405 N. Mill Ave., Tempe, Az. (where Van Buren turns into Mill Ave near Phoenix Zoo). info@lakepleasantsailing.com

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SILVERSIDES FISHING ADVENTURES — Brian McKinlay — owner/head guide. Salmon, Giant Sturgeon, Trout, Steelhead, Fly Fishing pro. As seen on National Geographic and Shimano TV. Vancouver and Mission, British Columbia. www.silversidesfishing.ca, email: bcfishing-guide.com, (1) (604) 864-5445

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36' Hunter Vision '92\$69,900
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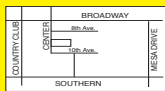
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GUNS

Continued from page 14

structor Ed Head, it's a new platform in the Ruger M77 family. While the Scout Rifle has M77 features such as controlled round feed and integral scope mounts (scope rings included), the 10-round detachable box magazine gives it a distinctly tactical look.

A Mini-14/SR-556 flash suppressor takes care of the pesky muzzle flash that is often the result of a .308 Winchester load combined with a 16 1/2-inch barrel. The best part is that it's available for \$995.00.

Beretta A400 Xplor Light

Following the example of Benelli and its new Super Vinci, Beretta has evolved last year's revolutionary A400 Xplor Unico shotgun. It now comes in a "Light" version. Weighing in at just over six pounds, the new A400 Xplor uses an exclusive exhaust valve that allows the shotgun to shoot a broad range of ammunition.

The Light is also designed to reduce the already low felt recoil. Beretta has given shooters all the innovation of the original model in a lighter, less-punishing 12-gauge. You can pick one of these up for \$1,400.

Browning A-Bolt Shotgun

The Browning A-Bolt is back and better than ever for 2011. After a 13-year ab-

sence, Browning is bringing back this slug gun in hopes that it will rekindle its old flame in the growing number of shotgun-only states — some of which are right in the center of the Midwest whitetail paradise.

The A-Bolt, which looks stylish with a low-luster blued barrel and a Mossy Oak Break-Up Infinity composite stock, comes standard with a 3-inch chamber, 60-degree bolt lift, detachable two-round magazine and recoil pad.

Go ahead, purchase a piece of nostalgia for this deer season; it will cost \$1,240 MSRP.

Taurus Raging Judge

Taurus announced the Raging Judge revolver chambered for 28 gauge during the SHOT Show. Okay, so we know this isn't the traditional bird hunting gun, but once again, it's too cool to leave off this list.

"With this gun, the Judge not only gets a bigger bore," wrote *American Rifleman* Editor in Chief Mark Keefe, "but also the features that made the Raging Bull in .454 so distinctive and more friendly to the shooter when it comes recoil, including a cushioned insert grip."

Taurus has created a new breed of handgun with the Raging Judge, and the rumors have been flying regarding an impending ATF ruling in regards to shotguns and "sporting purposes," but we've learned they have nothing to do with this 28-gauge.

CLEANING

Continued from page 11

cover is also available and is easy to remove with a side-opening flap. Shurhold's Swivel Pad Combo retails for \$26.98.

Shurhold is dedicated to educating owners on RV value preservation. Inventor of the One Handle Does It All system, Shurhold manufactures specialty care items and accessories to clean, polish and detail.

Contact local dealers or Shurhold, 3119 SW 42nd Ave., Palm City, FL 34990. 800-962-6241; Fax: 772-286-9620. www.shurhold.com/rv.

HEATING

Continued from page 11

using only 0.35 gallons of propane per hour. For even more savings, in mild weather a 1,500W, 120V electric element provides warmth and hot water when connected to shore power.

Placed out of the way, the attractive unit takes up little space. Measuring just 16.75" H x 18" W x 29.5" L and weighing only 155 lbs., the system can be easily installed as an RV is being built or retrofitted into an existing coach.

The versatile Aqua-Hot 375-LP from Aqua-Hot Heating Systems has a sug-

Weatherby Vanguard S2

Weatherby is adding to its top selling line with a new version of the Vanguard rifle. The new Series 2 (S2) is guaranteed to shoot SUB-MOA with factory or premium ammunition and comes in almost every popular caliber.

It accomplishes this feat with a new two-stage Match Quality Target Trigger, Griptonite stock with non-slip panels and a right-side palm swell and the legendary Mark V action. Throw in the full-length, cold hammer forged 24-inch barrel that is known to provide maximum velocity and there's no reason not to spend \$450 to \$630 on this rifle.

Winchester Model 1886 Short Rifle

Winchester is revitalizing several of its classic lever-action rifles this year, and the reliable action of Winchester Model 1886 is among the finest.

The Model 1886 Short Rifle, designed by John Moses Browning, was built to handle the then-new, heavier 45-70 Govt. cartridge, way back in 1873. The Model 1886 Short Rifle features a deep blue receiver, barrel and lever, along with a matching blued steel end cap and steel crescent buttplate.

Like the other historical rifle models being offered by Winchester this year, production is limited. You can own this piece of history for \$1,269.

gested retail price of \$6,000.

Contact local dealers or Aqua-Hot Heating Systems, 15549 E Hwy 52, Fort Lupton, CO 80621. Toll free: 800-685-4298 or 303-659-8221; Fax: 303-857-9000.

sales@aqua-hot.com; www.aqua-hot.com.

WALLEYE

Continued from page 9

Table Quality

Considered one of the most excellent tasting fish available. The meat is white, flaky and has a very mild flavor

STEREO

Continued from page 11

It's also great for smaller fishing boats, cuddly cabins, flats boats, PWCs and RVs. Prospec's Millennia MIL-PRV15 has a retail price of \$99.95.

Contact local dealers or Prospec Electronics, 3325 S Morgans Point Rd., Mt. Pleasant, SC 29466. www.prospecelectronics.com.

TILAPIA

Continued from page 9

is practiced within two hundred yards of any boat dock or designated swimming area.

Table Quality

The white, fine textured meat has a very mild flavor. The tilapia has become a popular fresh-water fish in grocery stores. Flavor of tilapia may diminish during summer periods as consumed algae impart a muddy or musty taste.

STRIPERS

Continued from page 9

3 days before hatching.

Females mature between the ages of 4 to 7 years. They produce a remarkable number of eggs (4.5 million in one 14-year-old female).

Food

Young feed on crustaceans and insect larvae. Adults are opportunistic feeders on dead or live fish, but prefer threadfin shad. Like white bass and yellow bass, striped bass move and feed in schools.

Angling

Stripers can be caught on shad, anchovies, "cut" bait, spoons, plugs, jigs, crankbaits, and streamer flies.

Table Quality

The meat is white, firm, flaky and good eating. Red meat along lateral line may taste a bit "fishy" so its removal will enhance table quality.

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FEEDING

Continued from page 12

these were highlighted in a front-page article in *The Wall Street Journal*.

Prior to the publication of the *Wall Street Journal* article, Canadian ornithologist Jason Rogers also wrote about the environmental problems associated with the use of bird feeders in the journal *Alberta Naturalist*.

In this article, Rogers explains how the practice of feeding wild birds is inherently fraught with negative impacts and risks such as fostering dependency, altering natural distribution, density, and migration patterns, interfering with ecological processes, causing malnutrition, facilitating the spread of disease, and increasing the risk of death from cats, pesticides, hitting windows, and other causes.

In a paper in the journal *Oecologia*, it was reported that feeding of birds and birds with peanut cake over a long time period significantly reduced brood size. This was driven by smaller clutch sizes in both species and lower hatching success rates for blue tit birds.

TABLE

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feeders are designed to be mounted on poles as it is believed that squirrels reach seed feeders more easily from trees than from poles.

The simplest type of squirrel proof feeder is a tube-like feeder surrounded by a metal cage. These feeders also offer protection from larger and more aggressive birds. Tube-seed feeders are primarily made of clear plastic tubes with plastic or metal caps, bases and perches. Hopper bird feeders look like a house and attract a wide range of birds such as finches, cardinals, blue jays, sparrows and titmice.

Birds housed in wired or glass cages can be fed with electronic bird feeders. The electronic bird feeders store a few

Studies by the University of Freiburg and Environment Canada found that black-caps migrating to Great Britain from Germany had become adapted to eating food supplied by humans. In contrast, black-caps migrating to Spain had bills adapted to feeding on fruit such as olives.

Economy

Large sums of money are spent by ardent bird feeders, who indulge their wild birds with a variety of bird foods and bird feeders. Over 55 million Americans over the age of 16 feed wild birds and spend more than \$3 billion a year on bird food, and \$800 million a year on bird feeders, bird baths, bird houses, and other bird feeding accessories.

The activity has spawned an industry that sells supplies and equipment for the bird-feeding hobby.

In some cities or parts of cities (e.g., Trafalgar Square in London) feeding pigeons is forbidden, either because they compete with vulnerable native species, or because they abound and cause pollution and/or noise.

days or even a few weeks worth of bird food, depending on the feeder chosen, and automatically replenish the dish when it is empty.

Providing a varied array of tastes and feeding venues will result in less competition for food and dining spots, just as a well-planned garden will provide many plants that supply different types of seeds and nectar.

A shallow birdbath can attract as many birds as a feeder, but it must be safe from cats, kept clean, and refreshed frequently with clean water to avoid mosquitoes. The birdbath should be placed where a frightened bird can fly up easily to an overhanging limb or resting place if disturbed or attacked.



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