



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Table of Contents

<u>Section</u>	<u>Page</u>
<u>SOUTHERN ARIZONA KOI ASSOCIATION BUSINESS.....</u>	<u>2</u>
SAKA AIMS	2
SAKA CLUB OFFICERS	3
COMMITTEES/POINTS OF CONTACT.....	3
PRESIDENT’S CORNER.....	4
CLUB ANNOUNCEMENTS	4
WELCOME NEW MEMBERS:	4
MEMBER NEWS:	4
CLUB NEWS	4
SAKA 10% DISCOUNT	4
SEPTEMBER’S BUSINESS MEETING MINUTES.....	5
SEASONAL CARE:.....	6
SAKA NOVEMBER KOI SHOW, KOI AUCTION AND RAFFLE	6
CLUB SPECIAL RAFFLE:	6
SHOW PARTICIPANTS:	6
FEATURED ARTICLES	13
KAWARIGOI KORNER.....	16
UPCOMING SAKA BUSINESS MEETINGS.....	18
UPCOMING KOI SHOWS, POND TOURS AND SEMINARS.....	18



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Southern Arizona Koi Association Business

SAKA AIMS

- a) Organized by people with the interest of raising and improving the quality of Nishiki Koi, and its culture
- b) Through Nishiki Koi, promote better international and community relations and for public welfare and the better understanding of brother-hood among members through a common interest.
- c) To improve the technology of raising and keeping koi.
- d) To promote Nishiki Koi.

BUSINESS

- a) To encourage the raising and better development of koi through public and private exhibition.
- b) We will have monthly study discussions and make field trips to various members' ponds.
- c) To carry out necessary business functions of the Club.

CLUB MEMBERSHIP

- a) A qualified member must be interested in pond culture.
- b) Persons wishing to become a member must be first introduced by another member in good standing and have approval of the Officers - Dues are payable immediately.
- c) Membership will be terminated by the Officers if a member is found guilty of negligence of his duty, is against the purposes of the southern Arizona Koi Association, and/or who disgraces or insults the Club.



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

SAKA Club Officers

President	Bob Panter sakabob@yahoo.com (520) 747-7278
Vice President	David Young koiman@mindspring.com (520) 682-7697
Secretary	Constance Richardson concy@earthlink.net (520) 546-6402
Treasurer	Faye & Winton Hall (520) 297-1253

Committees/Points of Contact

2008 Pond Tour	Debbie Shaw castlerockkings@cox.net (520) 275-4510
28th Koi Show Chairperson(s)	Bob Panter dpanteraz@cox.net (520) 747-7278
AKCA Representative	Debby Young debbyt@akca.org (520) 682-7697
Newsletter Editor	Laurel Nason laurelnason@yahoo.com (520) 794-8695
Koi Health Advisor	Noel Shaw koidoc@noelshawdc.com (520) 400-0335
Membership Chairperson	Faye Hall (520) 297-1253
Raffle Chairpersons	Wanda & Bruce Triebel wandakarlik@aol.com (520) 572-0060

Editor's Note: Articles published herein are intended for the enjoyment of our club members and come from a variety of sources. The articles are not intended to replace veterinary advice. Pond owners, and not the club, are responsible for the health of their koi, water changes, what to do, and how to treat their pond. Reasonable effort is made to review these articles for accuracy before including them in the newsletter.



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

President's Corner

Days are getting shorter and the nights are getting cooler. This does affect your koi. As always, check your water and look at your koi. You can usually tell by looking if something is wrong. Your koi are your pets and part of your family. Take care of them.

Our koi show, yes Ours. If you belong to the Southern Arizona Koi Association you know for the past 27 consecutive years we have put on a koi show. This year the show almost didn't happen, why???

We as a club should know that our koi show is part of our family activities. Just like our summer potluck, our spring pond tours and our annual Christmas Party with Sanke Santa.

All of us should be proud to participate in these activities. I know you are. So lets see the support for our club. Let's all bring our koi to the show so we can show them off and be proud of our family.

We hope to see our fellow koi friends from Arizona, Texas, Denver, Las Vegas, California, New Mexico and the rest of the cournty. We miss seeing you all. Come all you koi enthusiasts and help us celebrate our 28th annual Koi Show. Come see our family, the Southern Arizona Koi Association.

For the love of koi,

Bob Panter, President S.A.K.A.

Club Announcements

Welcome New Members:

No new members this month

Member News:

Best wishes to Dennis Leonard as he continues to heal from his heart surgery. Dennis recently had a stent put in to deal with scar tissue. We're looking forward to seeing you at the show!

Club News

Hosting Meetings: For those wishing to host an upcoming business/education meeting, the club will reimburse the host up to \$50 (with receipts) toward food/beverage for the meeting. **We still need hosts for meetings in 2008. We would like to see your pond!** Contact Laurel Nason (laurelnason@yahoo.com or 794-8695) if interested in hosting a meeting.

SAKA 10% Discount

With your SAKA Membership Card at:

Boyd Equipment Center

3625 S Country Club Road
Tucson, AZ
(520) 792-2244 or
1 (800) 844-2244

Mountain View Koi Fish & Nursery, LLC

3828 E. Keeling Road
Hereford, Az 85615
(520) 378-3710



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

September's Business Meeting Minutes

Date & Location: Sept 23rd at the Panters

Call to Order: Meeting called to order by President Bob Panter.

Sept Minutes: Minutes approved

Treasurer's Report: \$15,303.98

Membership: 66. Nametags are available for new members that were present at the July meeting.

Correspondence: Tucson Watergardeners and several other club newsletters. The Valley of The Sun Koi club has thanked us for our participation and help in co-hosting the AKCA Seminar. Our Koi Show notice is confirmed for AAA magazine, Koi USA magazine.

AKCA: AKCA has redone their website. Register with the site and access great info and links.

2007 Koi Show: The Show site (Kino Veterans Memorial Park) and meeting rooms (Mama Louisa's for Meet the judges on Friday and El Parador for the Saturday awards banquet) are locked in. There will be 2 judges for the show and no candidate judge. Working the sign/banner issue. The show poster is done, please hang a few up and distribute to businesses. Some show awards are bought. Possible food vendors are El Gorrion (been contacted and no response yet) and Moondog Hotdogs is willing to come to the site with a few days notice. Raffle grand prize is still in work. Raffle chairperson Wanda Karlik-Triebel has sent out 125 letters asking for donations. Raffle tickets in packets of 24 were distributed to members present at the meeting. Raffle tickets will be mailed to all members. Raffle donation letters and large posters were provided to members present at the meeting. 11 potential vendors have been contacted, no confirmations to date. Need members to assist with all aspects of the show. Laurel is heading up the auction. Brent has agreed to be the auctioneer. The October meeting will be the signup date for show assistance. We need members to donate koi for the auction. Need additional advertising for the show. Backup needed for the tanks being transported to the show site since Noel's vehicle is still not completely fixed since it's recovery. Casey offered her vehicle. Everyone is encouraged to bring their fish to the show.

Old Business: The Tucson Girls Chorus had their rummage sale and are till looking for donations. Debbie Shaw brought information for the club leadership to review.

New Business: Tom Bronk is selling a pond liner, waterfall and pre-formed small pond all for \$150. Call Tom at 818-2578 if interested or contact Dan Cover. Debbie Shaw offered to contact the Tucson Girls Chorus for providing entertainment at the Show for Saturday afternoon.

Adjournment: Meeting adjourned at 5:12pm.

Education: David and Debby Young demonstrated the proper techniques in netting your koi and preparing them for transport.



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Seasonal Care:

As we approach fall and winter and your pond water temperatures begin dropping, remember to cut back on the amount of food you feed your fish. Stop Feeding when water temperatures drop below 50F.

SAKA November KOI Show, Koi Auction and Raffle

Raffle Prizes: We need businesses to donate raffle prizes for our upcoming November koi show. If any of our club members have businesses or work for companies who would like to donate items, gift certificates, etc to support the club, please contact Wanda Karlik-Triebel our Raffle Show Person. These prizes can be pond or non-pond related. We would also like our club members to help us with our advertising by asking businesses to display our show poster.

Koi Auction: As part of our annual koi show, club members can donate koi for the club auction. All proceeds go to the club. Thanks to Concy Richardson, Faye and Winton Hall, Kathy and Dennis Leonard, Nedra Williams, Dave and Debby Young, Laurel Nason, Dave and Terry Johnson, Noel and Debbie Shaw, Erin Riley to date for committing fish for the auction.

Vendors/Trade Show: We are looking for businesses to participate at our show. Please contact Bob Panter for vendor packages.

Club Special Raffle:

Don't forget to buy your raffle tickets if you're interested in any of the pond equipment donated by club member **Sharon Faulk** at the November Koi Show. Tickets are \$1 each and or 6/\$5.00.

Show Participants:

For those of you planning on taking your koi to the show (and I hope you all are), please don't forget to stop feeding your koi the weekend before the show and for that entire week. This will help minimize water quality issues during transport to the show and at the show while your koi are in show tanks without bio-filtration.

Pre Load Party
November 3, 2007
9:00 am
Doug Wahl's House

Confirmed Vendors so far for our Show:

A's Aquarium
Mountain View Koi Fish and Nursery, LLC



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Southern Arizona Koi Association

Presents 28th Annual

Koi Show, Vendor Fair, and Auction

Free Admission

Nov. 10th 9:00 am to 4:00 pm & Nov. 11th 9:00 am to 3:00 pm

Koi Judging Saturday Nov. 10th 10am - 3pm

Koi Auction Sunday Nov. 11th 12:00 pm

**Kino Veterans Memorial Park
2805 Ajo Way Tucson, Arizona
(Across from Kino Hospital)**

For Information Call: (520) 747-7278

email: dpanteraz@cox.net

visit: www.sakoia.org



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)

October 2007

28th SAKA Koi Show

Your Copy Registration Form

November 9-10-11, 2007

Name _____ Date _____

Address _____ City/ State/Zip _____

Phone Number: _____ E-mail _____

Pre -Registration Fees: \$25.00 (by 10/26) Registration (after 10/26) \$45.00 _____

***Extra Tanks _____ X \$15.00 = _____

Meet the Judges Dinner (by 10/26) _____ X \$22.00 (After 10/26) _____ X \$32.00 _____

Awards Dinner (by 10/26) _____ X \$25.00 (After 10/26) _____ X \$35.00 _____

I need # _____ tanks for auction fish **Total Enclosed** _____

*** (Extra tanks will be given by postmark and availability, everybody will be guaranteed one tank, 2nd tank if available and so on; you will be contacted by 11/1/07 as to how many tanks you will actually have.)

Make check payable to **SAKA** and send with form to:

Debby Young
11355 West Picture Rock Road
Tucson, AZ 85743
520 682-7696 520-237-5249 cell 520-403-2949 cell

Circle one: OPEN DIVISION NOVICE (Never shown in any Koi show (Available only if pre-registered))

Open Class/Size	-10"	10"-14"	14"-17"	17"-20"	20"-24"	+24"
Novice Class/Size	-14"		14"-20"		+20"	
Kohaku						
Sanke						
Showa						
Utsuri						
Asagi/Shusui						
Tancho						
Long fin						
Gin Rin Go Sanke						
Gin Rin Other						
Goromo/Goshiki						
Hikarimono						
Hikari Other						
Kawarimono						



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)

October 2007

28th SAKA Koi Show

Registration Form

November 9-10-11, 2007

Name _____

Address _____

City/ State/Zip _____

Phone Number: _____ E-mail _____

**Pre -Registration Fees \$25.00 (by 10/26) Registration (after 10/26) \$45.00 _____

***Extra Tanks _____ X \$15.00 = _____

Meet the Judges Dinner (by 10/26) _____ X \$22.00 (After 10/26) _____ X \$32.00 _____

Awards Dinner (by 10/26) _____ X \$25.00 (After 10/26) _____ X \$35.00 _____

I need # _____ tanks for auction fish

Total Enclosed _____

** (All tanks must be reserved before the show)

*** (Extra tanks will be given by postmark and availability, everybody will be guaranteed one tank, 2nd tank if available and so on; you will be contacted by 11/1/07 as to how many tanks you will actually have.)

Make check payable to SAKA and send with form to:

Debby Young
11355 West Picture Rock Road
Tucson, AZ 85743



SAKA News



http:// www.sakoia.org
October 2007

Registration for Friday Dinner and Saturday Banquet Only

(Do not use this form if you are entering Fish)

Meet the Judges Dinner

Friday, November 9, 2007, 7:30-?

We are taking reservations for the judges dinner at Mama Louisa's Italian Restaurant. We are hoping for a large turnout to welcome our judges and out of town guests. In order for the restaurant to have sufficient room and manpower we must give advance notice.

Do you plan to attend the Meet the Judges Dinner? Yes ____ No ____

How many will be attending? (by 10/26) _____ X \$22.00= _____

(After 10/26) _____ X \$32.00= _____

Total: _____

(No host bar is available at the restaurant)

Mama Louisa's
2041 S. Craycroft Road
Tucson, AZ

Awards Banquet Reservation

Saturday, November 10, 2007 at 7:00PM-?

The Southern Arizona KOI Association (SAKA) would like to invite you to attend the Awards Banquet at El Parador Tucson. A Mexican Buffet will be served with meat and vegetarian options. No host bar from 7:00 to 7:30 P.M. Banquet starts at 7:30-10:00.

How many will be attending? (by 10/26) _____ X \$25.00= _____

(After 10/26) _____ X \$32.00= _____

Total: _____

El Parador Tucson
2744 E. Broadway
Tucson, AZ

Checks are to be made payable to: Southern Arizona KOI Association (SAKA)

Total Enclosed \$ _____

Send to: **Debby Young**
11355 West Picture Rock Road
Tucson, AZ 85743

Name(s) _____

Phone: _____ e-mail: _____



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Meet the Judges:



Name: Nicole Lembke
9A Harwood Dr. Harwood, MD 20776
Phone/Fax: 410-867-0270
e-mail: artskoi1@aol.com
Profession: Pharmacist

Size of Pond: 18,000 gals. Indoor Pond

Year Certified as Judge: 1998

Years in Hobby: 34 years

Affiliated Club and how many years: Mid-Atlantic Koi Club since 1990

Positions held in club: Secretary of MAKC, Koi Registration for MAKC Shows and is the current ZNA Rep for MAKC.

Other koi related Activities: She has written articles for MAKC Newsletter, attended several Judging Seminars, and with her husband has been to Japan many times

Accomplishments: With her husband has won several Grand Champions and has showed around the United States, she has shown in the All Japan Show a few times and won Runner-Up Champion. She has been Koi Person of the Year for MAKC and with her husband has finished in the top three AKCA Koi of the Year twice. Judged in United States, Holland, Great Briain, Australia



Name: Dr. Arthur Lembke, Jr.
9A Harwood Dr. Harwood, MD
20776
Phone/Fax: 410-867-0270
e-mail: artskoi1@aol.com
Profession: Dentist



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Size of Pond: 18,000 gals. Indoor pond.

Year Certified as Judge: 1996, Current member of the AKCA Judging Comm., ZNA Certified Judge in 1998

Years in Hobby: 34 years

Affiliated Club and how many years: Mid- Atlantic Koi Club since 1990

Positions held in club: Vice President and President of Mid-Atlantic Koi Club, two time MAKC Show Chairman, three times Koi America Show Chairman, Koi Bencher, AKCA Rep for MAKC

Other koi related Activities: He and his wife have been to Japan many times, he has written articles for Koi USA, Nichirin, MAKC Newsletter and several other magazines, he has given lectures on Water Quality, Koi Nutrition, Koi Selection, Filtration, Treatment of Koi Diseases, Injection Techniques, Pond Winterization and Advanced Koi Appreciation, has been to several Judging Seminars around the world and has taught some as well.

Accomplishments: With his wife he has had several Grand Champions and has showed in many Shows around the US, has been MAKC's Koi Person of the Year, with his wife he has had Koi finish in the top three for AKCA Koi of the Year competition twice, with his wife he has shown a few times in the All Japan Show and won Runner-Up Champion. Judged in United States, Great Britain, Taiwan, Holland, Australia

Let's Thank our Sponsors for our Show:

- | | |
|-------------------------------|--|
| Aquascape, Inc. | Aquatic Eco-Systems, Inc. |
| Al Zimmer's Ponds & Supplies | Aqua Ultraviolet |
| Arizona Aquatic Gardens | Arizona-Sonora Desert Museum |
| Bach's Cactus Nursery, Inc. | Bonita Cafe |
| Boyd Enterprises | Cal Pump |
| Champion Nishikigoi | Doctors Foster & Smith |
| Ecological Laboratories, Inc. | E. G. Danner Manufacturing, Inc. |
| Funtastics | Green & Hagstrom, Inc. |
| Hagen | Mountain View Koi Fish and Nursery, LLC |
| Novalek, Inc. | Odyssey |
| Pentair Aquatics | Performance Pro Pumps, Inc. |
| Petco Foundation | Peter Landy |
| Pet Solutions | Python Products, Inc |
| Reid Park Zoo | Spiritae Enterprises (Lynn Riley&Erin Riley) |
| Tucson Botanical Gardens | |



Featured Articles

Taking Stock

David Jones, Master KHA

(reprinted from the Barbel Review - Dallas Koi Kichi Group October 2007 newsletter)

At the end of summer, we can look back on our ponding season and take stock of what great and not so great things have affected the enjoyment of our ponds. Using a focused approach, we can evaluate many aspects of the pond and fish, how much enjoyment or drudgery it has been, and what we might like to change to make it better for next year. First, did you enjoy the pond? If so, then you're a "Happy Ponder" – Congratulations! However, there's always room for improvement, so let's take stock of our pond in three different categories. Take a piece of paper and write these main topics at the head of each section, then divide each section into "Positives" and "Negatives".

- #1) Is your pond environment a wonderful place to be?
- #2) How easy is it to do routine maintenance?
- #3) What do you need to know about water quality and fish health?

Let's take these one at a time and I'll offer some suggestions.

#1) One of the great pleasures in ponding is sitting out next to the pond, watching and feeding your fish, and enjoying everything that's going on around you. Do you have a suitable sitting area next to the pond? If not, that could be great winter project! With all the DIY materials available now for taking on this kind of improvement, you can build a gravel and paver, stone or wooden pation/deck yourself! Are you sitting in the sun? How about a patio cover to offer some shade when sitting outside in the heat, or a fan or water misting system to make pond size relaxing more comfortable? How about a table so you could eat your breakfast or dinner out by the pond? If you have plants in your pond, are they well kept and trimmed? Would you like some different varieties/colors next year? How's the landscaping around the pond?

Is your water as clear as possible so you can see your beautiful fish? Do you have a population overload? If so, maybe its time to give away some of your less desirable fish to someone starting a pond, and thereby provide more space for your favorites. Remember, they're getting bigger every year.

#2) Routine Maintenance: When I ask people what they like and dislike about their ponds, the number one dislike is cleaning the pond and filter. Maybe ponds and filters are not easy to clean, and don't get cleaned as often as they should! Consider the kind of ponds with rocks on the bottom, they need to be disassembled and power washed each year to clean out all the crud that has accumulated between the rocks! It would be better to get rid of the rocks, put in a retro drain to keep the pond floor clean, and never have to disassemble the pond again! Similarly, there are filters that must be taken apart to squeeze out the filter pads, there are better types of filters that are easy to clean. Its been my observation that if pond equipment is not easy to take care of, then it doesn't get cleaned. So take it upon yourself to learn about some better equipment and lighten your maintenance load.

Part of routine maintenance is weekly water changes. Draining out 10% of your pond water and refilling with dechlorinated new water refreshes your pond and keeps your water looking great! Foam around the waterfall



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)

October 2007

and tea colored water are signs of old tired water, which may contain toxins and be harmful to your fish. Establish a regimen of water changes and your pond will benefit immensely.

#3) How's my knowledge of water quality and fish health? This is an area for improvement for "Newbies" and "Oldies" alike! Every pond owner should be able to run a complete water analysis to determine when things are going right, and when they're not. Similarly, observing your fish and recognizing normal behavior is as important as realizing when fish are acting abnormally. There are lots of resources on the Internet to learn new things about your pond and its inhabitants. Taking stock of your ponding activities is a good thing to do each year. It moves you and your ponding experience forward, and makes year more enjoyable.

Best wishes to your fishes.

Mosquito Control & Your Pond
By David Jones, Master KHA
(reprinted from the LSKC Sept 2007 newsletter)

This is a very important subject for pond owners - please give this information your serious consideration.

Recently, I was summoned to a pond with a massive fish kill in progress. In the last few weeks, I have visited other ponds with several fish deaths. In each case, I looked for the cause of the disaster by examining the events that led up to the crisis. Just like "CSI", many parameters must be considered; water quality, dissolved oxygen, parasites, and toxins are some of them. In two cases, there were some nagging questions that caused me to look for answers outside the pond. I believe those fish kills were caused by the insecticide group known as "Pyrethroids" which are widely used for Mosquito control – and which your neighbor may have in his backyard mister. These are the same agents used by local municipalities for area spraying to control the spread of West Nile Virus – I'll discuss that later.

But first, some background information.

Mosquitoes are not only annoying but are vectors for diseases such as Malaria, Dengue Fever, Yellow Fever, Encephalitis and West Nile Virus. Worldwide, millions have died from these diseases. We are fortunate in the U.S. in that West Nile Virus is the only public health concern here. The mosquito's life cycle is as follows: Females need a blood "meal" to create several hundred eggs which she deposits on calm water, the eggs hatch by contact with the water, then the eggs develop into the larval stage, the larvae wrap themselves in a cocoon called a pupa, some time later a mosquito emerges from the cocoon and leaves the water as an adult. Adults live a few weeks and keep laying eggs in water to complete the cycle. Mosquito control efforts target the larval stage with water treatments, and the adult stages with aerosol insecticides.

For years, DDT was effective in controlling mosquitoes, but was banned after the discovery of its far-reaching deleterious effects on other organisms. Less toxic agents were developed as chemical sprays to help agriculture reduce the effects of destructive insects on their crops. Today, anyone can go to a Garden Store and buy any number of pesticides. All are toxic to a certain extent, and often kill organisms outside their targeted ones. This brings us to the widespread use of sprayed insecticides that may drift into your yard. Organophosphates such as Malathion, (harmful to humans), and Pyrethroids (less harmful) are used by commercial landscapers for insect control on trees, shrubs, and lawns. Organophosphates and Pyrethroids pose a serious threat to your fishpond.



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)

October 2007

While the landscaper may spray once in a while, a more serious threat is the Pyrethroids used in residential yard misters to control mosquitoes – they spray every day!

There are several names you may hear identifying this class of agents. The original one of this group was Pyrethrin, which is extracted from chrysanthemums, and could be considered a natural, but toxic, insecticide. Pyrethroids are synthetic forms of the same substance but much more toxic and last longer. Lastly, Permethrin, under several trade names, is the most common Pyrethroid used today. Permethrin acts similarly to organophosphates in that it interferes with the nervous system by affecting neural transmission. A significant difference between organophosphates and Pyrethroids is that Pyrethroids are considered safer and better tolerated by humans and mammals in general, so they have become widely used for that reason. While everyone thinks they're safe to spray around their families and pets, these aerial misters do kill bothersome mosquitoes – but, they also kill beneficial insects such as butterflies, bees, dragonflies, ladybugs, even praying mantis – their effects are widespread and indiscriminate, even affecting life in our ponds.

Pyrethroid's toxic effect on aquatic life was noted when aerial spraying of forests to control insects yielded massive fish deaths in the streams that ran through the area. Another aquatic disaster happened in a Minnesota lake where 300,000 Black Crappie died. Permethrin had been sprayed nearby, and a rainstorm created a toxic runoff –

Permethrin was sampled from the water. A similar event was recorded in the Northeast, where runoff from a newly sprayed coastal area killed all the Blue Crab and shrimp in a bay. Aquatic life in general is highly susceptible to these toxins. Poisonous substances reveal their toxicity by the lethal concentration (LC) of the agent that is required to kill 50% of a species in 96 hours. It's known as the LC50. Permethrin toxicity occurs in fish because of the sensitivity of their nervous systems. Additionally, fish have no enzymes for removing the toxin; so accumulating levels overcome the fish. Here are some scary facts: LC50s of pesticides are often quoted in parts per million (ppm). It takes much less than that for most fish and other aquatic species, and some succumb to one per BILLION! (ppb). To give you a point of reference, 1 ppm is approximately 1 teaspoon in a thousand gallons, and 1 ppb is approximately 1 teaspoon in a million gallons! I want to impress upon you how little it takes to affect the fish in your pond.

Any of these toxic agents could affect your pond because of indiscriminate insecticide spraying by a neighbor, a commercial company, or neighborhood sprayed by your County Health Dept as part of a West Nile Virus initiative. As they are in aerosol form, they can drift into your yard on a light breeze. Another concern is the increasing use of residential misting systems that your neighbors may have bought to enjoy their backyards without mosquito attack. These misting systems spray every day – even when the wind may be gusty. So how will you know if this kind of toxin is affecting your pond? The only early warning signal is fish behavior. Initial symptoms are abnormal swimming action, reduced startle response, and loss of equilibrium. As more toxin is absorbed, convulsive or erratic swimming patterns may be noted on some fish and lethargy in others. Smaller fish are usually affected before big fish. What can you do if you suspect this event is happening? There is nothing you can throw in your pond to reverse the effects immediately.

Some people think that activated charcoal in a bag and placed in the water flow will absorb the toxin. The only method I know of to deal with this emergency is to start doing big water changes to dilute the toxin to insignificant levels. 50% water changes three or more times will do the job. Remember, the solution to pollution is dilution! Be sure to use a double dose of the right dechlorinator before you add the new water. Fortunately, the half-life of these agents is only a few days; so chronic accumulation is unlikely after a one-time event.

So, how can you protect your pond from this silent killer? Talk to all your nearby neighbors. Tell them you have a fishpond or invite them over see your pond. Let them know that chemical sprays are deadly to fish. If they have a



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)

October 2007

landscaper that routinely sprays their yard, give them your phone number and asked to be notified when spraying is scheduled. If they have a misting system, ask them if they would contact their service person about switching to one of the newer agents that are advertised as “pond safe”. There are quite new on the market and don’t have a track record yet.

Watch local TV newscasts for spraying information. Or you can check with your local Health Department. So what can you do if you know your neighbor’s yard will be sprayed or the city will spray in your area? Cover your pond with a plastic sheet to protect the water from aerosol droplets. Likewise, cover your air pumps. If the edges of your pond are not raised above ground level, protect your pond from yard runoff that may contain freshly sprayed agents.

By taking these actions, you will be able to protect your fish from a known event. The rest of the time, observe your fish for any unusual behaviors, and do weekly 10% water changes to keep your pond fresh.

Best wishes to your fishes.

SAKA Editor’s note: Ecological Laboratories, Inc has a larvacide product (Microbe-Lift/BMC) that they sell which is bacteria based and further information can be obtained by going to their website at <http://www.microbelift.com>.

Kawarigoi Korner



The Cull Chronicles – Koi Deformities

By Laurel Nason

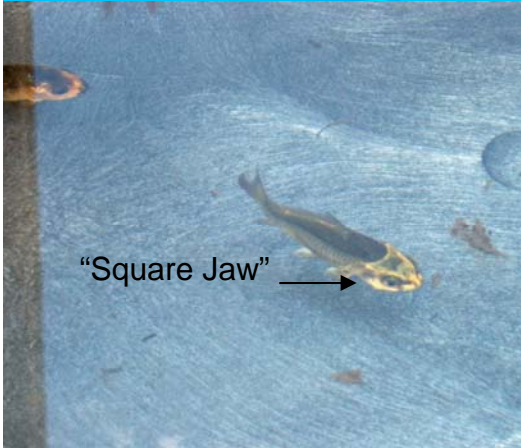
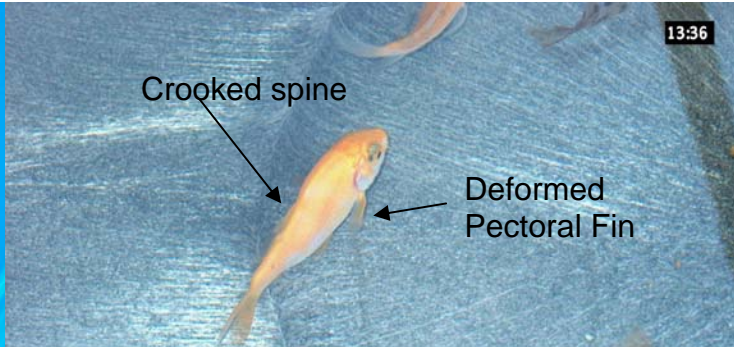
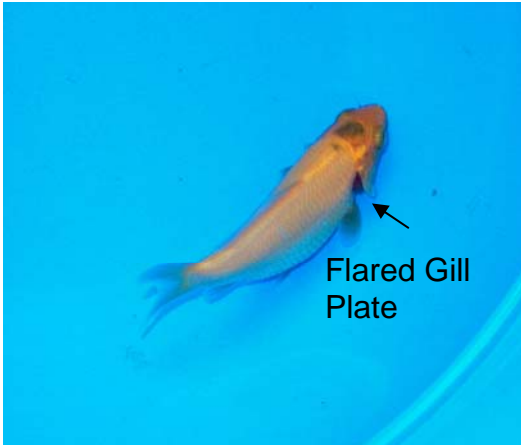
With any spawn, culling is an important part of raising quality koi. Deformities can be caused by so many factors including genetics and environmental factors that its important to select only the best quality koi to grow. Reality is that very few of the offspring from non-refined bloodlines result in even good pond quality koi. Reducing stock enables the remaining fry to grow and flourish. Less competition for food, water quality remains optimal and the koi grow faster in less crowded conditions. All breeders have a sense of when and what to cull. My hobbyist experience has been that there are certain times that are optimal for culling and other instances when koi appear to be more sensitive to handling and water changes. But culling is a continuous process as the koi grow with lower quality koi being weeded out. Less than 10% (more like 1-2%) offspring are considered high enough quality to be kept for multiple seasons. The genesis of this article is to provide the hobbyist who hasn’t raised fry to have a pictorial of some of the more common defects to increase awareness when purchasing baby koi.



SAKA News



[http:// www.sakoia.org](http://www.sakoia.org)
October 2007





SAKA News




[http:// www.sakoia.org](http://www.sakoia.org)
October 2007

Upcoming SAKA Business Meetings

October 28, 2007	Hosts: Winton and Faye Hall (520) 297-1253
November 2007	NO MEETING: See you at the Show!
December 9, 2007	Hosts: Bruce & Wanda Triebel (520) 572-0060
January 27, 2008	Host: Noel and Debbie Shaw
February 24, 2008	Host: Open
March 23, 2008	Host: Frances Case
April 27, 2008	Host: Dan and Martha Cover
May 18, 2008	Host: Wanda and Bruce Triebel
June 22, 2008	Host: Open
July 27, 2008	Host: Open
August 24, 2008	Host: Open
September 28, 2008	Host: Bob and Darleen Panter
October 26, 2008	Host: Kazumi and Anson Tripp
November 7-9, 2008	NO MEETING: See you at the Show!
December 7, 2008	Host: Open

Upcoming KOI Shows, Pond Tours and Seminars

Event	Dates/Location
 28th Annual SAKA Koi Show and Auction	November 10-11, 2007 Kino Veterans Memorial Center 2805 East Ajo Way Tucson, Arizona Contact Bob Panter for Info (520) 747-7278 Email: dpanteraz@cox.net
VSKC 2008 Greater Open Koi and Goldfish Show	February 9-10, 2008 Chinese Cultural Center North 44th Street Phoenix, Arizona http://www.VSKC.net
27th Annual AKCA Seminar	June 26-28, 2008 Hyatt Regency (904) 588-1234 Jacksonville, Fl Contact: Jan Brown (904) 269-2504



SAKA News



http:// www.sakoia.org
October 2007



Mail for KOI USA Subscription to
P.O. Box 469070
Escondido, CA 92046
Or
Subscribe on-line at
subscribe@koiusa.com
Or
Subscribe by phone at
1-888-660-2073



Annual Membership

Dues are \$25.00 per family from March 1 to February 28 or 29 of the next year. If paid after August 1 \$17.50, September 1 \$15.00, October \$12.50, November \$10.00, December \$7.50.

Membership Type

_____ Renewal
_____ New Member

Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone #: _____

E-mail _____

Today's Date: _____

of Koi _____

Years Keeping Koi: _____

Pond size: _____

Would you like to host a meeting?

Would you like to serve on a committee?

_____ If yes which one?

Make Checks payable to: SAKA

Mail to: Faye & Winton Hall
6775 North Los Arboles Circle
Tucson, AZ 85704-4110

For 1 year subscription (6 issues)
_____ \$24.95US for any person in US or Canada
_____ \$20.00US special price for AKCA Koi Club members

Club affiliation (for special price) _____

Subscribers' name _____

Subscribers mailing address

City, State, Zip _____

Phone number _____

Method of payment

_____ Check made out to "KOI USA"

_____ Visa or Master card

Expiration date _____ - _____
Month year

