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Huge Windstorm Hits Lake Beryessa

November 27th and 28th saw one of the biggest wind storms to hit Lake Berryessa in a long time. The winds were consistently in the 20 to 30 mph range with higher gusts. My gauge showed gusts of 41 mph plus in the Berryessa Highlands.

The power went out several times during the early morning hours - five times between 8 AM and 9 AM on the morning of the 28th. The outages lasted less than a minute each time, but residents stopped trying to reset their clocks or computers until later that morning.

Unfortunately, very heavy winds hit the Markley Cove Marina damaging docks and sinking or damaging some boats. The following report just came in (Nov. 29 - AM) from Tom Brown, a neighbor of mine at Steele Park until we were forced to demolish our mobile homes there this year:

Hi Peter, you must have heard by now about the wind storm destruction at Markley Cove. Lisa called me about 2:30 PM on Saturday and informed me that my boat was one of many damaged by the hurricane speed winds. Jeremy and I took the trip up there yesterday to remove my boat as requested. I couldn't believe the damage on my C dock.

The roof was gone, the support poles bent and boats on their side, mine being one of them. At first it appeared that my boat had suffered major damage, but we couldn't get it off the bent and distorted lift. It was stuck and wedged into the slip.

I had to un-bolt the lift so that it would drop out of the way. I tied it off with the only rope I had and I hope I'll be able salvage it. After about 2 hours of frustration and hard work, we were finally able to move the boat out of the slip. We wondered if we were going to sink, not knowing what damage might have occurred to the hull.

The engine fired immediately and I felt no vibration, indication that the prop and drive shaft were okay. We were not taking in water (good thing because I wasn't prepared to go swimming) so we motored to the launch ramp with great relief. We couldn't believe that we only had some dock rash and a small rip in the cover. Now I have no dock or lift at Berryessa - the lake is possessed.



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The Lake Berryessa News

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December, 2009

25¢

Donation



Holiday Fun Faire

Saturday, December 12th
10:00 am - 6:00 pm

Spanish Flat Village Center

Come celebrate the season!

Shop with local vendors for that special gift &...

Taste local wines with Sharon & Stefano at the *Cucina Italiana*.

Check out the Christmas goodies with Marcia & the girls at *The Country Store*.

Stop in for some Holiday Cheer with CeCe and find out what's happening with real estate in Northern California.

Delight in browsing through antiques and collectables with Chris & Donna at *The Hand Made Store*.

Take a trip into the past with Carol as you tour the *Berryessa Valley Exhibit*.

Santa will be here!

Have your picture taken with Santa (from 1:00-5:00).

Bring your friends and join us for a fun day!

Vendors welcome!

Call for more information: Donna 707-927-6196 or Marcia 707-966-1600

Win an Old West Costume Dinner for 6

Step back into the past with a dinner served in the Berryessa Valley Exhibit Museum.

Period costumes will be provided.

"Old Time" Photos will be taken of the winners.

Dinner personally prepared by Chef Stefano of *Cucina Italiana* includes full service dinner, Del Bondio Napa Valley Wines, and entertainment.

Drawing, Saturday, 7 PM, December 12, 2009 at *Cucina Italiana*.

You need not be present to win.

\$20.00 per ticket

Proceeds Benefit the Berryessa Valley Exhibit Museum at the Spanish Flat Village Center

Tickets available at the Spanish Flat Country Store, *Cucina Italiana*, the Hand Made Store, and Turtle Rock. Call 707-966-1600

Christmas Cheer!

Every Christmas pageant throughout the world has a scene showing Joseph leading Mary into Bethlehem on a donkey. Do you realize what would happen if the Republicans asked for equal time?

Did you hear about the Beverly Hills school Christmas pageant? Two kids dressed as Mary and Joseph are on their way to the inn in Bethlehem. On the other side of the stage, a boy in a shepherd's outfit is on a cell phone, calling for reservations.

Q: Why does Santa have 3 gardens?

A: So he can ho-ho-ho.

Q: What do you get when you cross a snowman with a vampire?

A: Frostbite.

Q: Why was Santa's little helper depressed?

A: Because he had low elf esteem.

Q: What do you get when you cross an archer with a gift-wraper?

A: Ribbon hood.

Q: What do snowmen eat for breakfast?

A: Snowflakes.

Some of these new toys are so creative and inventive. This year they have a Neurotic Doll. It's wound up already.

Q: Mom, can I please have a cat for Christmas?

A: No. You'll have turkey the same as the rest of us.

Q: What is the purpose of reindeer?

A: It makes the grass grow, sweetie.

It was Christmas Eve in at the meat counter and a woman was anxiously picking over the last few remaining turkeys in the hope of finding a large one. In desperation she called over a shop assistant and said, 'Excuse me. Do these turkeys get any bigger?'

'No, madam,' he replied, 'they're all dead.'

Q: What's the most popular Christmas wine?

A: 'I don't like Brussels sprouts!'

Q: Why does Santa wear pink underwear?

A: He's a man. He did all his laundry in the one load.

Q: What do you call Santa's Helpers?

A: Subordinate Clauses.

Q: Why would you invite a mushroom to a Christmas party?

A: He's a fun guy to be with.

Random Thoughts for the Day:

I think part of a best friend's job should be to immediately clear your computer history if you die.

Nothing sucks more than that moment during an argument when you realize you're wrong.

I totally take back all those times I didn't want to nap when I was younger.

There is great need for a sarcasm font.

Bad decisions make good stories.

You never know when it will strike, but there comes a moment at work when you know that you just aren't going to do anything productive for the rest of the day.

I'm always slightly terrified when I exit out of Word and it asks me if I want to save any changes to my ten-page research paper that I swear I did not make any changes to.

I hate when I just miss a call by the last ring (Hello? Hello? Damn it!), but when I immediately call back, it rings nine times and goes to voicemail. What'd you do after I didn't answer? Drop the phone and run away.

I hate leaving my house confident and looking good and then not seeing anyone of importance the entire day. What a waste.

I keep some people's phone numbers in my phone just so I know not to answer when they call.

Thanks to All My 2009 Loyal Advertisers

- American Watercraft, Dan Sabalvaro
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- Berryessa Corners, Mike Schildknecht (Rest in Peace)
- Berryessa Quick Stop, Ron Watt
- Capell Valley Estates MHP, Bob Joe
- CeCe Short - California Outdoor Properties
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- Spanish Flat Mobile Villa, Rob Wolf
- Spanish Flat Village Country Store, Marcia Ritz
- Turtle Rock Bar & Restaurant, Pete Leung
- Viking Propane, Karah Erickson
- Valley Christian Church, Pastor Randall Roach
- Vinni Bubak, Frank Howard Allen Realty

NAPALACHIA

by Bill Scholer



Those who travel Highway 128 to Winters during the rainy season know what Bill means!

Lake Berryessa L.U.S.T.

Although we all love Lake Berryessa, the L.U.S.T. in the title stands for Leaking Underground Storage Tanks. It's a program started in the late 1980's to deal with leaking gasoline tanks. This is the period when Lake Berryessa lost all of its gas stations because it was too expensive for the owners to install the required double-walled leakproof gasoline storage tanks. Engineers were digging test holes at the old Berryessa Corners gas station (now Berryessa Quick Stop) last week to determine whether the project can be closed.

Below is a list of L.U.S.T. projects at Lake Berryessa and their present status, as well as the clean-up costs paid by the State Water Resources Control Board to do the clean-ups. Detailed data on all clean-up sites is available on the state's Geotracker web site: <http://geotracker.swrcb.ca.gov/>.

The most troublesome site remains Putah Creek Resort where some \$1+ million has been set aside from the stimulus funds being used to clean-up the resorts for further remediation. The Bureau of Reclamation has written a 77-page detailed plan for the final remediation of Putah Creek Resort which is available on the Lake Berryessa News web site.

- BERRYESSA MARINA RESORT: Opened - 1/12/96, Closed - 7/2/01
- BUREAU OF RECLAMATION: Opened - 4/5/91, Closed - 9/12/91
- CDF SPANISH FLAT STATION: Opened - 1/4/89, Closed - 5/27/97
- CORNERS SERVICE STATION: Opened - 10/18/91, Still Open - 11/27/09, \$675,460
- LAKESIDE MARKET: Opened - 3/5/99, Closed - 7/31/07, \$329,742
- PLEASURE COVE RESORT: Opened - 1/16/92, Closed - 6/24/98
- POPE VALLEY GARAGE: Opened - 5/5/99, Still Open - 11/13/09, \$353,734
- PRIDMORE CONSTRUCTION: Opened - 4/9/90, Closed - 10/20/91, \$5,655
- PUTAH CREEK PARK: Opened - 9/4/90, Still Open - 11/16/09, \$1,279,811
- RANCHO MONTICELLO: Opened - 3/18/86: Still Open, \$149,119
- SPANISH FLAT MARINA: Opened - 4/30/90, Closed - 5/23/93, \$41,967
- SPANISH FLAT SERVICE: Opened - 1/13/93, Closed - 11/1/93
- SPANISH FLAT YARD: Opened - 1/28/91, Still Open - 12/18/07, Site Assessment
- STEELE PARK MARINA: Opened - 4/10/98, Still Open - Remediation, \$502,403
- SUGARLOAF PARK: Opened - 11/7/97, Still Open - 3/10/08 - Monitoring, \$173,719
- TURTLE ROCK: Opened - 11/28/94, Closed - 6/25/02, \$44,571
- MARKLEY COVE RESORT: Opened - 11/6/91, Closed - 9/7/93

Christmas Greeting: "To My favorite Pink Lady from Your Secret Admirer"

2009 Lake Berryessa Calendar

December 5: Winters Tree Lighting Ceremony, 5:30pm – 6:30pm, Rotary Park
Winters Theater Company, "Cinderella", Fri, December 4, 7pm – 9pm, Sat, December 5, 7pm – 9pm, Sun Dec 6 2pm - 4pm, Winters Community Center, <http://winterstheatre.org/index.html>

Also on Saturday Dec. 5th: During the day 10-3 is the Winters Friends of the Library (WfoL) annual Family Holiday Festival a gift and craft fair. In the evening, the Winters Wonderland Main Street Stroll with caroling, refreshments, and merchant specials.

December 8: The Community Church of Lake Berryessa will be hosting its annual Christmas dinner. The Community Church and Valley Christian church would like to invite all Lake Berryessa community members to attend. Dinner is free of charge and there will be a short program of some of our favorite Christmas carols. Please call the Community Church at 707-252-4488 for location and time. The number of attendees are needed for planning purposes. Pastor Bob Lee

December 12: Spanish Flat Village Fishing Derby, Spanish Flat Country Store. Come for the morning Trout & Salmon Derby, then enjoy lunch & Christmas treats, shop & take a picture with Santa, bring the whole family for lots of fun!

December 12: Spanish Flat Village Holiday Fun Faire, 10:00 am - 6:00 pm. Have your picture taken with Santa from 1:00-5:00. See details on Page 1.

December 19: Berryessa Senoir Center Christmas Dinner, 6pm with dinner at 7pm. The Center will provide a ham, rolls, and mashed potatoes. There will be a gift exchange which will be passed out by Mr. and Mrs. Claus and their two helpers. And as a special treat, Rosemarie Wilson has purchased jingle bracelets for all the ladies attending the dinner.

If you would like to participate in the gift exchange please have a generic wrapped gift which should cost no more than \$10.00. Also, those of you planning on attending should bring a side dish and if you would like a dessert/appetizer as well. There is a signup sheet at the entrance to the center.

December 19: Pope Valley Christmas Pageant and Potluck Party. Farm Center, 5:30 PM

Winter Publishing Schedule

The Lake Berryessa News continues its winter publishing schedule. From October through March, the paper will be published once per month during the first full week of that month.

However, I will be updating the Lake Berryessa News web site (www.LakeBerryessaNews.com) and sending out email newsletters more often to keep you informed about current events at the lake.

The Lake Berryessa News

www.LakeBerryessaNews.com

Owner/Editor - Peter Kilkus

415-307-6906 (Cell), Email: PKilkus@LakeBerryessa.net

Subscribe for only \$35 per year. Send your name, address, and email address to:

The Lake Berryessa News -

Peter Kilkus, 1515 Headlands Drive, Napa, CA 94558

Dam Level Update as of Monday, 11/2/09

The elevation of (Glory Hole) at Monticello Dam is **440** feet Lake Berryessa has had **3.77** inches of rain since July, 1 2009.

The water is now **32.77** feet below the top of the spillway

Date	Elevation	Evap	High	Low	Rain
11/7/09	407.60	0.02	63	42	0.00
11/8/09	407.57	0.08	71	39	0.00
11/9/09	407.56	0.05	69	37	0.00
11/10/09	407.54	0.03	64	36	0.00
11/11/09	407.54	0.04	64	43	0.00
11/12/09	407.53	0.03	66	43	0.00
11/13/09	407.51	0.01	66	36	0.00
11/14/09	407.49	0.02	63	37	0.00
11/15/09	407.46	0.03	67	34	0.00
11/16/09	407.45	0.08	66	35	0.00
11/17/09	407.43	0.01	65	33	0.00
11/18/09	407.42	0.01	68	38	0.08
11/19/09	407.41	0.00	65	33	0.00
11/20/09	407.44	0.02	60	33	0.00
11/21/09	407.45	0.00	56	35	0.26
11/22/09	407.38	0.02	61	40	0.00
11/23/09	407.36	0.04	60	38	0.00
11/24/09	407.36	0.06	72	37	0.00
11/25/09	407.34	0.02	69	38	0.08
11/26/09	407.30	0.02	73	37	0.00
11/27/09	407.39	0.04	67	41	0.00
11/28/09	407.26	0.11	64	42	0.05
11/29/09	407.23	0.24	68	37	0.00



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Pope Valley Turkey Shoot Another Success

Frozen turkeys weren't targets, they were rewards given to the best trap shooters during the 28th Annual Pope Valley Turkey Shoot held Sunday, Nov. 15. Each year, Pope Valley residents come together in support of the all-volunteer Pope Valley Fire Department and host a trap shooting event that raises funds for the station.



In local trap shooting circles the Pope Valley Turkey Shoot is one of the most popular events. Marksmen from as far away as Ukiah joined residents from all over the valley at a field across from the Pope Valley Farm Center to shoot as many clay targets as steady hands and eyes allowed.

A strong family component was integrated into the turkey shoot. Children and teenagers shot paintball guns at targets, some tossed rings at wooden

ducks, and others seemed happy munching on burgers and hot dogs.

The Pope Valley Turkey Shoot is a benefit that raises fund for the local fire department said Phil



Burton, one of the many volunteer firefighters who helped put on the competition.

"Pope Valley has the largest coverage area," Burton said. "We have 17 members (listed), 12 who run around (actively). The support of the community with any volunteer station is essential."

Last year, the event raised about \$30,000, of which the fire department kept about half after paying expenses. This year, despite the rough economy, they expected to raise the same amount. The funds help the department pay for ancillary expenses, everything from axes to infrared detectors to extra training.

While Pope Valley firefighters worked the event, Angwin Fire Department volunteer crews covered their area, Burton said, adding to the unity of the local fire departments.



Nursing as a Growth Opportunity

In 2000, the amount of full-time equivalent (FTE) licensed nurses was 1,891,000. The demand for FTE licensed nurses was 2,001,500. By 2020, there will be fewer FTE licensed nurses at just 1,808,000. Yet the demand will rise to 2,824,900.

A lack of nurses can translate into less attention spent with each patient, the program points out, and studies have proven that too many patients per nurse can negatively affect medical care. With fewer nurses in hospitals and other health-care facilities, the number of patients per nurse will continue to grow.

Fewer nurses are choosing to teach due to low salaries therefore adversely affecting the number of new nurses. And many nurses are choosing to work for pharmaceutical companies because the pay can be substantially higher than hospitals, emergency rooms, clinics and many other health care facilities.

If nursing appeals to you—and it's not an easy job, so it's definitely not for everyone—this could be the right time to look into it. The demand for nurses will only increase in the coming decades, so you'll be in demand.

Depending on where you decide to work, wages can vary. Here are some median annual salary figures from CBSalary.com to give you an idea:

- * Registered nurse: \$66,427
- * Intensive care unit (ICU) nurse: \$67,548
- * Head nurse: \$85,967
- * Critical care unit (CCU) nurse: \$67,016
- * Nurse midwife: \$98,008
- * Home-care nurse: \$65,507

(Salaries vary by location, of course. And there are many other nursing options available.)



Board of Supervisors Meetings on Video

The following story about Berryessa Garbage Seervice and the report by George Bacich on Page 4 about the lot line ordinance can now be seen on video at the Napa County web site. The system is quite easy to use, has good quality video, and an easy interface to find the section you want and jump to it directly rather than scanning through the many hours of a typical BOS meeting.

The fascinating thing about looking at the actual video is seeing directly what the supervisors say and how they act, as well as the demeanor and exact words of the public speakers.

(Editor's Note: I found it very interesting to watch Supervisor Dillon comment on the Berryessa Garbage Rate increase described below and Carol Kunze and friends comment on the lot line adjustment described on the next page.)

To see the BOS meetings in all their video glory, go to www.co.napa.ca.us/Gov/ and click on Board of Supervisors on the left. Then click on Board Meetings on the left side of the new window followed by Meetings and Agendas in the new main window. Now

click on Board of Supervisors in the new main window which will bring you to Meeting Agendas. That page gives you access to all agendas, minutes, and videos of meetings. You may need to download a free special viewer if you are running on a Mac. Try it - it's fun.

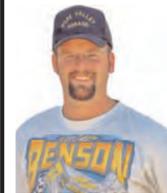
Berryessa Garbage Service Rate Increase

Berryessa Garbage Service, which serves most of the Lake Berryessa area, asked for a rate increase from the Board of Supervisors on Thursday, November 24, 2009. The residential rate for a single 32 gallon garbage can would increase from \$23.50 per month to \$25.10 per month or 6.8%. Equivalent rate increases were approved for the range of services provided by the company. You can see the full resolution along with the details of the services available from BGS on the Lake Berryessa News web site.

BGS has been seriously impacted by the closure of the resorts and has only partially compensated for that revenue loss by providing demolition and clean-up debris box service at the resorts for the Bureau of Reclamation. The Supervisors found the rate increase request justified and passed it.

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(Editor's Note: The Napa Sierra Club's strategy of using or creating legal loopholes to abridge the rights of Napa property owners, and Supervisor Dillon and Wagenknecht's close ties to the club, are well-known. Thus the following report is quite interesting.)

Napa Supervisors Rebuff the Napa Sierra Club

After seeing Elizabeth Frater's inaccurate and inflammatory letter to the Register claiming the new Lot Line Adjustment Ordinance will destroy the Ag Preserve and the environment, some people felt the Sierra Club might show up at last Tuesday's BOS meeting to oppose the Ordinance, which was scheduled for passage that day. The new ordinance makes it clear that lot line adjustments involving four or fewer parcels are an administrative action, not subject to CEQA, and that participating in one such lot line adjustment does not preclude a parcel from being adjusted again later. It was written by Planning staff after four or five publicly announced stakeholder meetings. The Sierra Club was notably absent from all but one of those meetings, so I didn't really expect them to try to sabotage the ordinance at the last minute, but I was wrong.

Sierra Club speakers included Carol Kunze. Carol V....., Nancy Tamarisk, and Elizabeth Frater, each one stressing that they were speaking for the Sierra Club, and claiming the new Lot line Adjustment is illegal, a violation of the Subdivision Map Act and/or CEQA. They cited legal cases to support their claim, and argued that staff's unfortunate choice of wording specifically eliminates the only CEQA exemption that might have been available, and therefore the CEQA exemption claimed by the ordinance is void. They advised the Supervisors to craft a different ordinance that might actually have some hope of withstanding a court challenge.

Several of us spoke in favor of the ordinance, County Counsel defended its legality, and the Supervisors approved it unanimously. Considering the unanimous vote and the Sierra Club's earlier lack of interest, I wonder if their last minute appearance might have been orchestrated primarily to give Dillon and Wagenknecht an opportunity to conspicuously vote against them in an effort to blunt recent criticism of their affiliation with the Sierra Club. Or have Dillon and Wagenknecht been wrongly maligned for always voting with the Sierra Club? I guess we will have to keep watching.

Regardless of any theatrics that may have been involved, the important thing is that all five Supervisors deserve credit for making a good decision that keeps the very useful and beneficial lot line adjustment process readily available to property owners without the needless expense and hassle of a CEQA review. For this they are to be commended.

George Bachich
4271 Dry Creek Road
Napa, CA 94558

Lake Berryessa Chamber of Commerce Board Election Results

Of the 62 ballots sent out, 33 were returned for a 53% response. Below are the results in order of total votes. The top 6 candidates are now Board Members. Congratulations!

1. Marcia Ritz 31
2. Jerry Rehmke 29
3. Georgia Craddock 28
4. Dee Cuney 27
5. Brenda Brown 21
6. CeCe Short 21
7. Craig Morton 19

The new Board is now formally in charge of the Lake Berryessa Chamber and will meet soon to elect their new President, Vice-President, and Secretary/Treasurer. Thanks to all who participated in this important process.



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Turnover at Lake Berryessa

(Continued from Page 6)

Anglers with good depthfinders can usually find the thermocline quite easily because algae and protoplankton will form a layer there, and the deeper, colder water is much more dense.

Frank Morris of the Solano Irrigation District reports, "The classic description of lake turnover is describing "dimictic" lakes or those having two mixes per year. Many larger lakes and reservoirs are "monomictic" - having only one mix per year. Without ice formation and the colder, less dense water rising to the top, reservoirs such as Lake Berryessa will not experience a spring turnover.

Winds in our region also play a large role in keeping the lake well mixed or destratified until summer when surface water temperatures are significantly different, allowing the stratification into the epilimnion, metalimnion and hypolimnion.

The fishermen at Lake Berryessa probably have the best data regarding the lake turnovers and where the metalimnion demarcation typically is located because that is where the fish feed on the zooplankton accumulating at the density gradient. Different arms of the lake may behave differently due to the wind fetch, sun exposure and interflows from streams.

Remember also that the total depth in that vicinity of the dam is almost 250 feet in depth. The lower depths are pretty consistent, VERY COLD. Another interesting fact is that the Monticello Dam is what is called a "hypolimnetic discharge", meaning that water discharged downstream is drawn off the lower portion of the water volume meaning that it is very cold and very nutrient rich. These nutrients support the large biomass of aquatic plants (and algae) in Lake Solano which is predominately Myriophyllum sp., also known as Eurasian Milfoil."

Bureau of Reclamation Ranger Mike McGraw describes some of the biological impacts of lake turnover:

"I have a thermometer down at our boat dock about a 1.5 feet in the water. Yesterday (November 20, 2009) it read 60 degrees, roughly the same temperature it's been since the beginning of the month. Typically, I know the lake turns in the fall sometime in November, but I've never noticed too dramatic a drop on any given day or week for that matter. Usually by January it's around 50 degrees (the lowest I've seen it is 48 degrees a couple years ago).

The big, noticeable change in the spring relates more to direct sunlight on the lake surface, warming water temperatures, and the biological processes that "kick into gear." During this time phytoplankton/algae become more numerous, changing the water from clear to cloudy green - "The Spring Bloom". In response to the algae growth, small invertebrates (i.e. copepods, tiny shrimp-like crit-

ters, and insect larva) become abundant followed by increased feeding and reproductive activity by larger aquatic animals like fish and frogs. The fishermen respond to all this new fish activity and spawning in the early spring (which may be the source of the "spring turnover" concept among anglers at Lake Berryessa).

By late spring, nutrients typically become depleted from the lake and planktonic populations crash, causing the lake to clear a bit and fishing activity to taper-off. The summer is a period of "lake exhaustion", when food becomes scarce and only the hardiest aquatic creatures survive. All the dead organism sink to the bottom of the lake becoming food for decomposers like bacteria. The biological processes of bacteria can deplete deep water O2 supplies which make the fall turnover especially important, not only for recycling nutrients through the water column but also in restoring deep water O2 levels.

Upwelling in the fall can cause planktonic blooms but they are usually short-lived because water temperatures are too low and the days lengths too short to sustain much photosynthetic activity. Sometimes when deepwater decomposition is anaerobic, toxic byproducts are produced (for example, hydrogen sulfide) that are brought to the lake surface. If undiluted, these byproducts along with O2 starved water from the deeper parts of the lake can become a lethal combination for fish. Since I've been at Berryessa (5 years now), I'm not aware of this happening."

Fishing and Turnover

Each fish has a different range of water temperature in which it can survive. Although fish cannot always find the exact temperature they prefer, they are usually found in water close to that temperature.

Species and their preferred temperatures:

Brown Trout	60-65 F
Lake Trout	48-52 F
Rainbow Trout	55-60 F
Chinook Salmon	48-55 F
Coho Salmon	48-55 F
Largemouth Bass	68-78 F
Smallmouth Bass	67-71 F
Striped Bass	60-70 F
Bluegill	75-80 F
Crappie	70-75 F

The angler should know how to locate fish by temperature. Probe a lake's depth with a thermistor on a calibrated cord. The thermistor registers instant temperatures and the cord marks the depth. There are newer models out which also register oxygen content, pH, and water clarity. These instruments are useful lake fishing tools. With whatever instrument you select, document the temperature at one-foot intervals from the lake's top to its bottom. You rarely need to go deeper than forty feet because

it's rare to find fertile water deeper than this depth. Simply find the depth corresponding to the preferred temperature range of the fish species you are seeking. Then identify the ideal temperature depth, which coincides with the lake's bottom structures that produce both food and cover. This is a likely spot to find actively foraging fish.

Other factors such as light intensity, water clarity, pH, and oxygen content influence the fish by forcing them to migrate where these factors are favorable.

During hot temperatures when the epilimnion (top) layer is unfavorably warm, find the junction of the epilimnion and thermocline. At this juncture the most oxygen and somewhat cooler temperatures will be found. Target this junction at depths corresponding with bottom structures presenting both food and cover. At these times all of the lake's fish may be concentrated into this narrow zone.

Water temperature and fish metabolism

Fish have a metabolic rate dependent on water temperature. This dependence on water temperature also affects their immune system, wound healing, and digestion.

Trout, for example, will actively seek 64-degrees or the closest temperature to it. Sixty-four degrees, is the optimal temperature for a trout body to function at its peak. Below 50-degrees and the trout will start to shut down. Above 70-degrees and the trout will start to shut down. So, you can safely guess that trout actively feeding and swimming around will be found where water temperatures are in the 55-65 degree range.

During summer, the surface of a lake the water will be very warm and stays warm down to a certain level. As the Lake Berryessa chart above shows, the surface might be at its maximum of 82 degrees in August, while 40 feet deep it is 70 degrees. At 70 feet the water is about 55 degrees and it will stay that cool all summer. Lake Berryessa bottom water temperatures never go below about 50 degrees.

After turn-over the whole lake has good oxygen content and fish can move anywhere. They are hard to pattern because they roam a lot for a few weeks before setting up on deeper winter structure.

Professional anglers Guido Hibdon and Denny Brauer are unsure what happens to bass during the turnover, but they agree that the fish are affected. "I think it almost affects them like a cold front situation; it disorients them a little bit about what they're wanting to do," Brauer says.

"I think they're a little bit goofy about that time," says Hibdon. Before the turnover, fishing tends to improve with the cooling water conditions. During and after the turnover, however, fishing tapers off.



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CeCe Short



CeCe and King Salmon caught on the Rouge River near Agness, OR



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(Editor's Note: It's been almost a year since I took over the Lake Berryessa News from Shirl Katleba-Rutter. That followed three years of working closely with her to publish the paper twice a month. We had a lot of stressful good times and just plain good times. So what every happened to Shirl?)

Shirl grew up in the Dixon area and went to Dixon High. In 1989 Shirl and her husband, Dave Rutter, bought 60 acres at Lake Berryessa. they also had a place in Pleasure Cove Resort where they soon became concessionaires of The Commodore Restaurant. Now some 18 years later they have moved back to Dixon.

Hi! Lake Berryessa.

by Shirl Katleba

It's been almost a year since I sold the paper to Peter and I'm enjoying every free moment. Dave and I still have our place at the lake near Pleasure Cove, and hopefully we will run into some of you from time to time.

Dave likes his two-minute drive to work after seventeen years of commuting to Dixon from Wragg Canyon. I do miss everyone. Visiting with everyone as I delivered the paper was my favorite part of the job.

After a year of leisure I decided to apply for a job with our local bakery which is only four blocks



away from my house - The Solano Baking Company. I love my new job and boss Kendra Benz. When I'm off from work I'm done!

Kendra, granddaughter of the couple who started the business, has led the company into it's 28th year. It all began in 1981 when her grandfather retired from the U.S. Air Force after being a C135 refueling pilot at Travis Air Force Base. Kendra's parents were operating a very successful doughnut shop in Sacramento.

The two couples decided to open one together on the new mall in Fairfield. The next one opened near the air base and later another one on Alamo Road in Vacaville. In 1990 they opened the Dixon Bakery. Then the economy began to shift. Lots of changes and scaling back began to happen. In the end they finally just kept the best one - and that's in Dixon.

"It's a drive-thru world," Kendra says. "We really appreciate someone parking their car and getting out to come into our bakery."

Words of wisdom from outlasting the national average nine times over.

Praise for Solano Baking Company

From Sophia B. (www.yelp.com)

I've been going to Solano Baking Company since the early 80's when my mom would take us to the Fairfield Mall and let me and my sister pick out a "special treat" of whatever we wanted... We love, loved it.

Recently my parents had a 25th wedding anniversary and to celebrate we got them the exact wedding/anniversary cake they had 25 years ago. We of course decided to go

a place with family history, Solano Baking Company!

The original owners granddaughter Kendra helped us with the order and was very helpful and patient while we found the perfect cake. Kendra's ideas were amazing and she truly personifies what a family business is all about!

When we got the cake it looked fabulous. The vanilla with buttercream filling was awesome, as was the chocolate with raspberry and creamy fudge filling. Our parents were so happy with the surprise my mom started crying!

I would highly recommend Solano Baking Company to anyone who wants a cake that tastes as good as it looks!



December Birthdays

- | | |
|------------------------|----|
| Joan Brigham | 31 |
| Grace Hughes | |
| Gary Larski | 5 |
| Clint Pridmore | 4 |
| Nancy Pridmore | 13 |
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| Christine Roussopoulos | 5 |
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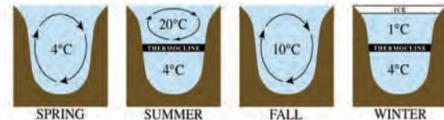
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**As Lake Berryessa Turns!
Temperature and Fishing in a Warm,
Monomictic Lake**

By Peter Kilkus, President
Berryessa Environmental Management
Systems (www.BerryessaEnvironmental.com)

No, this is not another episode in the Bureau of Reclamation's tragicomic daytime soap opera about Lake Berryessa. This is a report on a phenomenon called "turnover" which is well-known to anglers, but not so much to other lake visitors. Some people think that Lake Berryessa turns in both spring and fall. But scientific data shows that the lake only turns once per year - in the fall.

Turnover is essentially what it sounds like. The water on the bottom of the lake goes to the top, and the water on the top of the lake goes to the bottom. The bottom layer of water is called the hypolimnion, and the water between the hypolimnion and epilimnion makes up the metalimnion. The metalimnion is also called the thermocline, because a drastic temperature change occurs in that layer. For ease of understanding, I'll call these the top layer, middle layer, and bottom layer. The diagram below will also help you understand the process for a lake that freezes.



When layers mix and change places, a lake is said to turn over. Lakes that turn over once a year are said to be monomictic. Lakes that turn over twice a year, once in spring and once in fall, are called dimictic. Dimictic lakes usually freeze over during the winter. The reasons for both the spring and fall turnover in lakes that freeze are easy to understand so I'll discuss them first.

Although the turning of a lake is partly due to temperature and density differences in the layers, the major cause for the turnover (or mixing) is the wind. The wind causes full mixing of the lake when the temperature of the water is the same at all depths and there are no layers.

In late summer lake surface waters of both monomictic and dimictic lakes have reached their annual maximum temperatures. At this time in a sufficiently deep lake, you will find a definite layering of water temperatures. Warmest, and therefore least dense, waters lie on top, and the water temperature decreases with depth, reaching its minimum temperature at the greatest lake depths. How cold the lake bottom water becomes depends on the lake depth and other characteristics but it will never fall below 4 deg C (39 deg F) unless the lake freezes solid.

Summer breezes blowing over the lake general-

ly keep the top layer stirred by pushing a quantity of surface water downwind. This draws a flow of deeper water upward (upwelling) along the lee shore to replace the pushed waters. But this upwelling is not coming from the deepest layer, only from the lower part of the top layer. As a result, top layer waters mix, producing generally warm temperatures and high oxygen content (important to fish and other creatures) throughout the top layer.

The middle thermocline layer has minimal mixing, and what does occur is slow, thus isolating the bottom waters from the surface zone.

In fall, the surface water cools. Its drop in temperature eventually matches the middle layer in temperature. When these top layer waters reach about 10 deg C (50 deg F), they sink into the middle layer waters below, erasing the temperature stratification between the top and middle layers that had built during summer.

As fall air temperatures continue to drop, this new upper layer cools to the temperature of the bottom layer. The full water mass of the lake has now reached a uniform temperature, and the surface winds mix the full water body in the "fall turnover". The water temperatures then continue to decrease into the winter months.

For lakes that fall below 39 degrees and finally freeze, the surface becomes colder than the bottom, but this cold water now "floats" on top of the "warmer" water. (See above diagram) The colder surface water is now actually lighter than the warmer water and floats on it until it actually turns to floating ice. The key to this unusual process is how water density varies with water temperature.

Water is most dense (heaviest) at 39° F (4° C) and as temperature increases or decreases from 39° F, it becomes increasingly less dense (lighter). Thus, at 39 degrees and below, less dense but colder water is now at the surface and more dense but

warmer water is now near the bottom.

During spring, the process reverses itself. This time ice melts, and surface waters warm and sink until the water temperature at all depths reaches approximately 39° F. When this occurs, winds blowing over the lake again set up a full circulation system, this mixing known as "spring turnover". As the warming continues into the summer, the top water layer becomes much warmer and less dense. The warm surface layer now "floats" on the cooler lower layers. Over time into the summer the three water layers again become established, and our cycle has been completed.

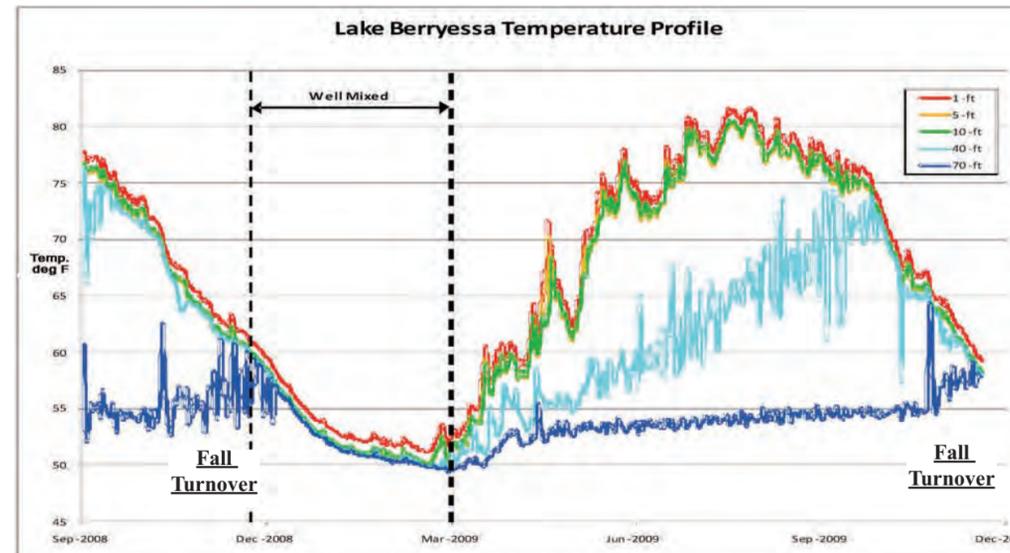
Since Lake Berryessa water temperatures never get below 39 degrees, it is classified as a warm, monomictic lake. During winter, the surface waters cool to a temperature equal to the bottom waters. But lacking significant thermal stratification, since the water never gets below 39 degrees, much less freeze, these lakes mix thoroughly each winter from top to bottom and continue to mix until spring.

This situation is graphically illustrated by the following chart from Alex Rabidoux of the Solano County Water Agency. Alex reports, "SCWA maintains a thermistor chain of sensors to a depth of 70-ft near Monticello Dam. I have attached a little over 1-year's worth of data, and you can see that Lake Berryessa experiences one mix per year.

For last year, mixing occurred in November, 2008 followed by several months where the lake was well mixed, and then stratification began again in March, 2009. For Water Year 2010, you can see a similar pattern, where Lake Berryessa became well mixed a few weeks ago, in mid November."

Alex added that the thermocline is probably somewhere near 40-ft, but there are not enough temperature sensors to say with absolute certainty without finer resolution.

(Continued on Page 9)



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Spanish Flat Village Fishing Derby

Clear & very cold was the word out on Lake Berryessa Saturday morning, November 14th, as anglers vied for 1st place, Winner takes the Pot of \$\$\$, during the Spanish Flat Country Store, Trout & Salmon Derby. Pictured here is Steve Vollmer with fishing buddy & good friend Hamid Seirafi. Hamid's Rainbow Trout won 1st place weighing in at just a tad under 2 lbs. He shared that he was trolling near the Vineyards using a Renegade lure at the 25ft. depth..

Steve's winning Salmon weighed in at the 1 lb. range. His success was also trolling, using a Pink Hoochie in the Narrows at 35 ft. After the 1 p.m. weigh-in, everyone enjoyed home-made chili n' garlic bread prepared & donated by Marcia Ritz, owner of Spanish Flat Country Store & Deli in the Spanish Flat Village Center.

December's Derby will be on Saturday, Dec. 12th, which will coincide with the Village Center's Holiday Fun Faire from 10 - 6 pm . Come for the morning Trout & Salmon Derby, then enjoy lunch & Christmas treats, shop & take a picture with Santa, bring the whole family for lots of fun !!

Submitted by CeCe Short guidesvc@inreach.com 707-337-0224



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