



Friends of Lake Glenville

Protect & Preserve Lake Glenville

Spring-Summer 2008

www.friendsoflakeglenville.com

Howard M. Austin, Editor

Official Announcement: Annual FLG Meeting August 2, 2008 9am Glenville CDC

Lake Clean Up 2008

Ray Jimison

Our annual Lake Clean-up event was held on Saturday May 31st this year and was a solid success. The weather threatened but in the end cooperated to make it another beautiful day on our Lake. This year we tried some new things in an attempt to get greater participation and awareness. We contacted each of the presidents of local home owners associations or neighborhood leaders around the lake and asked that they take this on

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Ted Waas and the FLG hospitality boat and crew

Lake Glenville Water Quality 6: Taking Stock

Don Hansen

The year 2007 marked our fifth year of truly quantitative measurements of turbidity of Lake Glenville water. This is still a short record, but it seems an appropriate time to review the variations and trends that have been observed. For this article I have focused on conditions observed at the end of the "season", that is, measurements made within one week of 1 October each year. By this time of

Photo: Research Vessel *Glenville* at dock with aquatic technician Eva aboard.



Measuring Water Quality: Turbidity & a Shift to Green

Ken Kitchens

The quality of the water in our lake continues to be of concern. Degradation in quality, while not yet serious, is objectively measurable. The lake still maintains the state's highest water quality rating. Not surprisingly, any negative change is the result of the increase in the population...you and me...and the land disturbance we inflict. If we are the cause of the problem, we are also the solution. Friends of Lake Glenville has maintained a monitoring program for a number of years, gathering water samples from six inflow streams feeding the lake and having them assessed for metal and chemical

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Schedule 2008

FLG Breakfast June 21, 2008

Boat parade before fireworks July 4, 2008

Grand Summer Social July 19, 2008

FLG Breakfast and Annual Meeting August 2, 2008

FLG Breakfast September 13, 2008

The President's Message Spring 2008

Carol Adams

2008 Season...here we come or rather hear we are!! As I write this message in early June, we have really already begun the Friends of Lake Glenville season activities.

Our season opener breakfast on May 17th brought out a record crowd for a May event. Trillium served their usual delicious, hearty breakfast after which we heard from Ryan Serby who briefly described the activities of the Southwestern Commission, a local agency that addresses issues from senior benefits to mountain development. At the next breakfast on June 21st we will feature a program on boating safety. Many of our members have expressed concern about the number of boats and personal watercraft on the lake especially on summer weekends. We hope added safety services and education will help lessen the safety problems created by the increased traffic.

Our annual lake clean-up day was held on May 31st. Chair **Ray Jimison** enlisted the help of several neighborhood groups who combed the shoreline for debris and floating objects. The FLG hospitality pontoon, Captained by **Ted Waas** with crew **Mary Lou Waas, Patti and Don Hicks, Annie and Dick Merriam and Joanne Lindquist** floated the lake with cold drinks, muffins and favors courtesy of Duke Energy.

We are unceasingly challenged to serve our FLG purpose to **Preserve and Protect Lake Glenville**. Flg board members and active committee members continue to address the same issues each year and we make some progress but often without enough member volunteers to complete the job.

Water quality testing and measurements of sedimentation and turbidity are very successful FLG programs conducted by **Ken Kitchens** and his committee, **Doug Odell** and **Don Hansen**. Our incoming streams continually show satisfactory levels for any contaminants. Sedimentation and turbidity are another story. Ten years ago the lake was clear to

25 feet.....now in many spots it is clear to little more than 5 feet. Shoreline erosion due to high lake levels and increased boating activity are the main reasons for the high turbidity. We work closely with the county erosion control department and ask all members to observe uncontrolled run-off or non-silt fenced building projects and report these to the county. The phone numbers to call are included in this issue. Some of the items in our boating safety program will address erosion due to boat traffic such as asking boaters to maintain slower speeds in narrow coves and to keep boat lanes away from the shoreline.

New multi slip docks serving both contiguous and non contiguous property owners continue to frustrate many around the lake. **Ike Eichorn** is a committee of one who is maintaining contact with the Jackson County Planning Office and Duke's lake manager to learn about dock and development permit requests.

It may seem that our relicensing intervention is going no where but that is not the case. By standing with the Jackson County Commissioners to protest the lack of local benefits in the license, we have created a formidable alliance that is making some progress in settling this long overdue issue. However, **Doug Odell** and our relicensing team have accomplished a lake level agreement with Duke that keeps the lake level at the mid point of an agreed upon high to low range each month. The exception to following the guidelines is during drought or flood conditions. It is deemed by Duke that drought conditions will continue in 2008 and that is why the lake was held high all winter..... Duke did not want to run out of water in summer.and neither do we!

This year's membership goal is to increase our numbers by 10%. Board members have agreed to host membership events or in some way solicit at least ten new members each. Many in our general membership can help with this as well by bringing a non-member to the breakfast or other FLG event. Or, you might provide

an FLG brochure to neighbors and friends who are not members. Brochures can be obtained from **Pat Strickland**, picked up at the monthly breakfasts or from several from our distribution points at the post offices, library and most real estate offices. Membership information is also on our website with an application that can be printed.

We have several fund raising efforts in play. **John Chaffee**, an FLG member, is a talented song writer and musician with an impressive amount of professional experience. John has composed a very lovely ballad for and about Lake Glenville. The CD is available at the breakfasts and at various shops in town with all sales proceeds going to FLG. Our logo clothing "shop" is open during the breakfasts. Hats, shirts, tees and various other FLG items are available in a variety of colors.

A newly created member contribution level, **Focused Signature Sponsorships**, has been established this year. These sponsorships, at donor levels of \$1,000 and above, are designed to assist in funding high-ticket ongoing programs and projects. Donor contributions will insure that funds are available in areas such as: state of the art water quality testing equipment, boating safety patrol and education efforts, and the annual lake clean-up. Signature sponsors will be recognized appropriately. To learn more please call me, **Carol Adams**, at 828 743-1658.

Finally many thanks are due to FLG board members, committee chairs and committee members who contribute time and effort to make our plans, projects and programs successful. However, each year we require additional new or replacement volunteers. **Preserving and Protecting Lake Glenville** is no easy task these days so please consider volunteering for a committee or activity. There is list of "Volunteers Needed" in this newsletter with the contact to call or just call me at 828 743-1658 to find the right spot for you.



July 4th Fireworks

David Leach

The July 4th Parade will be held on Friday July the 4th this year and will begin with a boat parade beginning at 8:00 pm off of The Pointe, which is where the fireworks have been set off from the prior two years (this is the gentle sloping land ending at a sharp point to the right of Trillium from the water). Our thanks to the owners of The Pointe for allowing Stuart Hall and his trusty band to use their property to shoot off the fireworks. There will be a lead boat, probably identified by a flag or other regalia, and anyone who wishes can follow the boat up the lake towards Hurricane Falls and around the island off of Little Switzerland and then back to The Pointe where the fireworks will begin, starting at around 9:20 p.m. Be on the look out for a boat selling cookies, kindly provided by the Mountain Chix. Donations to the cost of the fireworks would be appreciated since Stuart Hall and his group come out of their pockets every year to fund this delightful event.

As always, there will be a prize for the best decorated boat so get your creative juices ready and dandy up that vessel to try and beat the Leaches, who have won this prize perennially (it helps to also be the judges!).

Pray for fine weather and see you on the water!



The Buck Knob Island barge and its hard working crew during the recent lake clean up

Focused Signature Sponsorships: Making a lasting contributing to FLG and Lake Glenville

Each year members who wish to contribute more than the general membership dues have always had an opportunity to become a Gold, Silver or Bronze Sponsor. However, to provide additional giving opportunities and to fund expanded projects and programs, the FLG Board has established a Focused Signature Sponsorships program. The characteristics of the new program will allow FLG to adequately fund long-term projects while identifying the benefactor(s) who make the project possible.

Similar endeavors are seen repeatedly throughout the country.... The Phillips Arena in Atlanta, the Cummer Museum of Art & Gardens in Jacksonville, the Terry School of Business at UGA. These individuals or corporations fund civic buildings, stadiums, parks, museums and initiatives to insure these amenities continue to serve the community or region. On a much smaller scale, of course, the *Friends of Lake Glenville Focused Signature Sponsorships* are intended to improve some aspect of Lake Glenville.

In the inaugural year, the FLG sponsorships are available in the following areas:

Water Quality Testing Equipment

For the purchase of state-of-the-art testing equipment used for lake water and incoming stream testing as well as for sediment monitoring.

Donor levels at \$5,000 and above

Boating Safety Education and Patrol

Provides for Boat Friendly signage at public put-in locations, distributing boating safety flyers to rental agencies and promotion through advertising in community publications. Will also fund the establishment of an auxiliary to NC Wildlife patrols.

Donor levels at \$3,000 and above

Lake Clean up

Provides for labor assistance, rental equipment and watercraft and worker/volunteer refreshments during the Annual Lake Clean up.

Donor levels at \$1,000 and above

Appropriate recognition of *Focused Signature Sponsors* is planned for the duration of the program or project selected by donors. Inquiries to date have centered on sponsorships from family trusts or member's specified funds. To explore the possibilities and to learn more about becoming a *Focused Signature Sponsor* please call FLG President Carol Adams at (828) 743-1658.

Lake Cleanup 2008 Continued

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as an annual event for their HOA or group, in conjunction with FLG. Of the 14 HOA's on the Lake, we received positive responses from seven that participated in the event. Top on that list is the Buck Knob Island HOA who donated their manager, Ryan Delance and their barge that was used to collect trash and debris. For the second year, Danny Mullins provided his time and efforts to help Ryan and the barge team. Other HOA's and neighborhoods that participated include:

Buck Knob Landing
Fenley Forest Trail neighborhoods
Glenshore
Summerhill
Sunset Cove
Tahala Shores

(These are the ones I know of. If I missed anyone, I apologize and ask that you contact us in the future so that we know you are out there). Thanks again to everyone that participated

We also had a hospitality boat which was the brain-

child of Carol Adams and the FLG Board. The boat roamed the lake with a crew of volunteers providing snacks, water, juice and other things to our clean-up teams. We were well supported this year by Lisa Leatherman and Duke Energy again, with the donation of our garbage bags for the clean-up and gifts for all the participants in the clean-up effort. The hospitality boat handed out the gifts and if we missed anyone, please see me or Carol Adams (we have only a few left).

The end result of the effort was that we had roughly the same number of boats and people as in the past but we did have some new faces to help out that will be back next year. We collected more debris this year than last due to the high level of the water and many items from the shore that have broken free. The teams did a good job clearing debris that could be hazardous to boaters and others on the lake. I want to thank the FLG Board for their support. Thanks to all the home owner groups and individuals that participated. Please keep in mind that clean-up is a once a year event, but keeping our lake clean and well cared for is an everyday event that each of us should participate in.



Left: David Leach and Barbara Schoepfer and their pile of lake debris. Lynn Leach and Joe Schoepfer are working on the stern. Right: Ray and Gayle Jimison on their jet ski with an orange trash bag and debris in tow.

A Call for Volunteers

FLG Volunteers Are Needed for the Following Committees

With a full plate of activities FLG's need for additional volunteers is REAL!! Please check out the list below and call the committee chair for more information or to volunteer!

WATER QUALITY

Incoming Stream Water Quality Testing – gather water samples from incoming streams; transport samples to UNC Asheville

Lake Water Testing – assist in gathering water quality data from various lake locations

Lake Sedimentation and Turbidity Team – monitor erosion and run-off along the shoreline and into incoming streams; contact county, state and federal agencies as needed

CONTACTS:
SEDIMENTATION AND TURBITIY TEAM
 DOUG ODELL @ 743-5079 or 865 599-0523

STREAM TESTING KEN KITCHENS @ 743-2960

LAKE TESTING DON HANSEN @ 743-1611

SHORELINE MANAGEMENT/BOATING SAFETY

Help develop workable solutions to control lake overcrowding, unsafe boating practices, general lake safety

and aesthetic amenities

CONTACTS:
 HOWARD AUSTIN @ 743- 9494
 JOHN CASSIDY @ 743-1492

COMMUNICATIONS

Corresponding Secretary - Send thank-you notes, letters, as needed by the board

Phone Committee - call members May thru September about FLG events and meetings

Mail Operations - help with stuffing, stamping and mailing FLG announcements, invitations etc

CONTACT CAROL ADAMS @ 404 558-0377 or 743-1658

SOCIAL

Grand Summer Social - general assistance in food preparation, set-up, clean-up, decorations etc

CONTACTS:
 KAREN SCARBROUGH @ 743-0380 or 585 797-4070
 LYNN LEACH @ 743-1825 or 770 475-2155

Nominating Committee to Meet

Board member elections will be held at the annual meeting on Saturday, August 2. Please call a member of the Nominating Committee if you have a name to suggest for the FLG Board of Directors.

2008 Nominating Committee:
 Carol Adams - 743-1658 / 404 558-0377
 Helen Cook – 904 321-2210
 Doug Odell – 743-5079
 John Chaffee – 743-0380
 Jackie Cochran – 743-9252



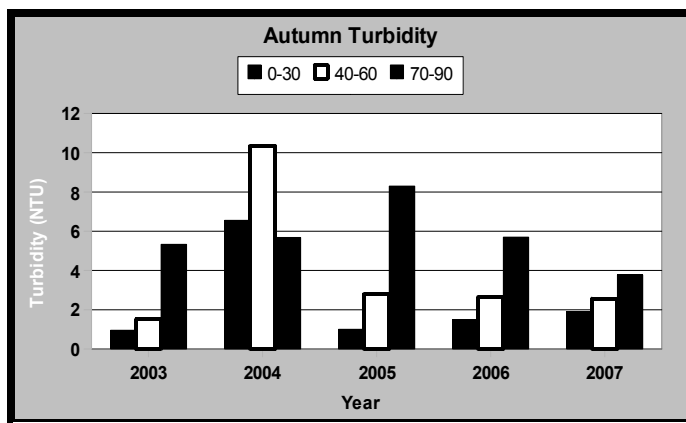
Earl and Gail Crawford herding a lost dock float during the lake clean up.

Lake Glenville Water Quality 6 Continued: Taking Stock Don Hansen

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year the frenzy of summer activities has abated, and the near-surface water is beginning to clear, while the deeper water often is subject to increasing turbidity probably due to increased potential for penetration deep into the lake of incoming stream water as it becomes colder in autumn. Also, 2007 was an anomalous year in that two of the processes identified in previous articles as contributing to turbidity were substantially reduced. First the regional drought continued, reducing sediment input to the lake by incoming streams. August and September rainfall was well below average at both Toxaway Mountain and the Highlands Biological Station. In addition, in anticipation of continuing drought, the lake was held at an unusually stable level during late summer and autumn. These factors might be expected to result in reduced turbidity in the lake.

Turbidity measurements have been made at ten-foot depth intervals from the surface to the bottom of the lake. Most of my sampling sites are only twenty to



Average of turbidity measurements within indicated depth intervals. Measurements were made within one week of 1 October of each year. Legend shows depth zones in feet.

thirty feet deep. To provide a more extensive description, for this article I have used data from my Talweg North station, at which measurements have been made reliably to ninety feet. That is, on each visit measurements have been made at ten or more levels. Hence this report is based on fifty individual measurements. To reduce the complexity of these data

in a useful way I averaged them over three depth zones with generally similar behavior. Averages were computed over the depth intervals 0 to 30, 40 to 60, and 70 to 90 feet. A chronology of autumn turbidity in these depth bands is shown in bar graph format.

Several features of the chronology may be noted. The very large turbidities shown for the near-surface and intermediate depth waters are carryovers from hurricane Ivan which had savaged the region a fortnight earlier. As described in *LGWQ4 (FLG Newsletter, Spring, 2007)* Ivan had a relatively modest impact on the deep water. One might speculate that the large turbidity found in the deep water in 2005 results from hurricane Ivan sediments sinking from the layers above, but such is not the case. It was argued in *LGWQ5 (Fall, 2007)* that such suspended sediments have a half-life of a week to ten days, and therefore after a full year should largely have vanished. Indeed, in June 2005 I measured turbidities less than 2 NTU at all depths greater than thirty feet. For a description of the NTU as a measure of turbidity refer to *LGWQ 2 (Spring, 2006)*. Since Ivan, turbidity has steadily declined in the deep waters, suggesting that the drought and the lake management practice adopted in consequence are indeed having a beneficial effect there.

The intermediate depth waters that suffered the greatest impact from Ivan have subsequently been very stable, but with turbidity about 75 percent higher than was observed in 2003.

In the near-surface water however there has been a progressive increase of turbidity. In 2005, the year following Ivan, turbidity there was the same as in 2003. Subsequently it has been increasing at a rate of half an NTU per year, in spite of the favorable environmental situation. By 2007 turbidity of the surface water had come to exceed that of the intermediate water in 2003. The most probable explanation for this is the suspended sediment source that has not decreased: erosion and resuspension of sediments by wakes from motorboats. Boat traffic is

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Lake Glenville Water Quality 6 Continued: Taking Stock

Don Hansen

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not measured, but almost certainly has increased, especially the population of powerful tow-boats. This erosion seems to occur mostly in the shallow water and more gently sloping beaches of various arms of the lake, most notably Pine Creek and Mill Creek but, being trapped above the thermocline, these suspended sediments rapidly spread across the lake.

In conclusion, although near-surface turbidities presently are lower in autumn than those at either intermediate or deep levels, they are of greatest concern because of their increasing trend and because the aesthetic qualities of the lake are determined primarily by the quality of water in the upper 30 feet. The duration of our measurements is still very short, but the early signs are generally bad. One cannot yet judge the impact of planktonic organisms on near-surface water quality. Algae growth would be

promoted by release of nutrients into the lake by seepage from septic tanks or discharges from sewer plants for instance. There is no positive evidence for this however. At present sediment erosion and resuspension by motorboat wakes in shallow coves appear to be the major threat to near-surface water quality. Wakes probably are not a problem in the main body of the lake. Establishment and enforcement of some speed/wake rules likely will be required if the historic water quality of our lake is not to be further degraded.

Acknowledgements: Thanks to Eva and Anders Hansen, Keith Dixon, Bob Larson, and Nancy Tatum for assistance in the data collection process. R. C. Cole and Peggy Cowart kindly provided weather data from Toxaway Mountain and the Highlands Biological Station.

Water Quality: Turbidity & a Shift to Green

Continued
Ken Kitchens

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content, with the biggest variable being turbidity following rain fall. The sampling of inflow will continue so that we remain alert to possible changes and not waiting to pursue a solution after the fact!

As a subjective observer of the quality of the lake water for a number of years....50+, I am aware of the "shift to green", and the ominous algae growth on the bottom of my boat, pier, and rocks along the shoreline. I will begin including actual lake water samples, having them assessed for the contamination resulting from fertilizer runoff and septic tank failure from properties surrounding the lake.

The current schedule calls for samples to be taken from the streams and be submitted to the University of North Carolina Asheville laboratory every two months. If you are interested in either collecting the samples or taking them to the UNC Asheville campus, Please give me a call: Ken Kitchens, 743-2960.



Top: Ike Eichhorn in the kayak and Bob Machin driving the boat. Below: More clean up helpers





FRIENDS OF LAKE GLENVILLE
2008 Membership Application

____ New
____ Renewal-No Changes
____ Renewal-With changes

For renewals only: DO NOT COMPLETE THE DATA INFORMATION IN SECTION A UNLESS THERE HAVE BEEN CHANGES SINCE 2007. PLEASE INDICATE THE STATUS OF YOUR MEMBERSHIP IN THE UPPER RIGHT HAND CORNER, THEN CONTINUE WITH SECTIONS B THROUGH F OF THE APPLICATION.

Today's Date: _____

Name(s): _____

A) Lake Address: _____ "Home" Address: _____

Phone(Lake): _____ Fax(Lake): _____ Email (Lake): _____
Phone (Home): _____ Fax(Home): _____ Email (Home): _____
Lake neighborhood name and/or general area: _____
Lake 911 address if above is PO Box: _____

B) Mail all newsletters and other correspondence to __lake address or __home address (choose one only for whole year).

Type of Resident: __Seasonal or __Permanent

C) Membership type: _____ Voting* \$45 annually _____ Associate \$45 annually

*Voting member(s) is/are property owners and/or registered voters within one mile of the lake or within Hamburg Township.
Associate members live outside the voting member area but have an interest in the lake.

Sponsorships: __Bronze (\$100 - \$199) __ Silver (\$200-\$299) __ Gold (\$300 and up) __ Other (contact FLG President)
All Sponsorships include: 1 Family membership, FLG decal, acknowledgment in a future newsletter and on the FLG website

D) Please rank the following FLG programs and projects on a scale from 1 through 10 according to your level of interest (10=high interest; 1=low interest)

__ Member recruitment __ Newsletter __ Social events __ Lake Clean Up
__ Water/boating safety __ Relicensing __ Fund raising
__ Lake/shoreline law enforcement __ Water quality __ Sedimentation/Erosion __ Political/legislative
I am interested in being on a committee __yes __no. If yes, which committee(s)? _____

E) Please indicate an FLG activity interest group you might like to enjoy with other FLG members.
__fly fishing __lake fishing __ hiking __excursions __golf __tennis __boating __paddling __cards __dinner club

F) Form of payment: Check: Check No. _____
Credit card: __ VISA __ MasterCard [Other cards cannot be accepted at this time.]
Account # : _____ Exp. Date: __ / __
Cardholder (print): _____ Signature: _____

Mail completed form with check or credit card information to: Friends of Lake Glenville
P.O. Box 493
Glenville, NC 28736

* Dues must be received one month prior to Annual Meeting (July 2, 2008), in order to vote at the Annual Meeting on August 2nd, 2008.

Thank-You To Our In-Kind Donors....and More

These businesses have generously contributed services or goods to FLG.

Blue Ridge Self Storage
for FLG storage availability

Buck Knob Island Home Owners Association
for use of the barge of lake clean-up

Cashiers Exxon
for the Annual Lake Clean-up refreshments

Duke Energy
for lake clean-up favors

Lakeshore Pontoon Boat Rental
for the Annual Lake Clean-up FLG Hospitality Pontoon

Trillium Links and Lake Club
for their continuing Monthly Breakfast services and amenities
and for lake clean-up labor

Please support these businesses and our newsletter advertisers when you are in need of the services and products they provide.

And, a very big thank-you to Annual Lake Clean-up Chair, **Ray Jimison** and Board Member, **David Leach** for their extraordinary time and effort to organize this annual event. Thanks are also in order for all of the members who spent a May Saturday morning on the lake lugging logs, debris and trash from the shore to make the lake safer for boaters and lake lovers. Also, thank-you to the members who manned..and womanned... the FLG Hospitality Pontoon.

"Boat Friendly"

- ♥ *Be aware of, and obey, the North Carolina laws of boating.*
- ♥ *Personal watercraft (jet skis) should observe the rules like any other watercraft.*
- ♥ *Slow to 5 mph if within 200ft. of boats, swimmers, fisherman, or docks. When "in doubt", slow down!*
- ♥ *YOU are responsible for the wake that your boat is throwing and should consider the consequences to others (i.e. dock damage, capsizing small craft, and bank soil erosion)*
- ♥ *Always "give way" to (pass behind) non-powered boats such as sailboats, kayaks, canoes, and rowing craft. (200 ft. is a good gesture).*
- ♥ *Ski and raft towing boats should never go beyond 100ft. of their disabled skiers and have an observer aboard as well as a driver.*
- ♥ *Keep noise within its proper perspective. Sound carries a long distance on water. Keep radios and recorders at a low volume.*
- ♥ *Pick up any "man-made" trash or litter you see floating in the water.*
- ♥ *Always stop and offer assistance to stranded boaters.*

Friends of Lake Glenville Board of Directors

Carol Adams President	743-1658	casolveit@yahoo.com
Helen Cook, VP	904-321-210	helen@lodgingresources.com
David Leach, Secretary	743-1825	leachga@earthlink.net
Joanne Lindquist Treas.	743-1630	joanne_lindquist2002@yahoo.com
Howard Austin	743-9494	hmaustin@mindspring.com
Richard Becherer	743-0686	richard-becherer@utc.edu
Ken Kitchens	743-2960	kkitchens@mindspring.com
John Cassidy	743-1492	cassidjf@yahoo.com
Doug Odell	743-5079	dodell@juno.com

Jackson County Board of Commissioners

Jackson County Administration
401 Grindstaff Cove Road
Sylva NC 28779
828-586-4055, 828-586-7506 fax

Kenneth Westmoreland, County Manager 586-7580 (w)

Commissioners:
Brian T. McMahan, Chairman 586-5451 (h)
Joe Cowan, Vice Chair; District 3 586-3718 (h)
William Shelton, District 1 586-4301 (h)
Thomas Massie, District 2 586-6030 (h)
Mark Jones, District 4 743-9553 (h)

Jackson County government web site: www.jacksonnc.org
Jackson County general web site: www.main.nc.us/jackson/



Friends of Lake Glenville
PO Box 493
Glenville NC 28736

FIRST CLASS

Friends of Lake Glenville Spring-Summer 2008



On the web: www.friendsoflakeglenville.com