

Annual Sundowner Social
 July 6, 2002
 The Landings at Trillium

Renew your Membership by
 July 3, 2002 in order to vote at
 annual meeting August 3, 2002,
 per FLG By Laws.



Important Dates

BoD Meeting April 30, 2002, 6pm
 Member Breakfast May 25, 2002, 8am
 BoD Meeting May 28, 2002, 6pm
 BoD Meeting June 18, 2002
 Member Breakfast June 22, 2002, 8am
 Sundowner Social - July 6, 2002
 Annual Meeting... August 3, 2002
 9am Glenville CDC

Friends of Lake Glenville

Winter 2002

www.friendsoflakeglenville.com

OFFICIAL ANNOUNCEMENT:
ANNUAL MEETING OF THE FRIENDS OF LAKE GLENVILLE
 Glenville CDC, Saturday August 3, 2002 at 9am

Read this newsletter and lots more on line on the FLG web site.

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Watch for your lake survey from Duke Energy, complete it, and return it.	

FLG Lake & Stream Water Quality Testing Continues

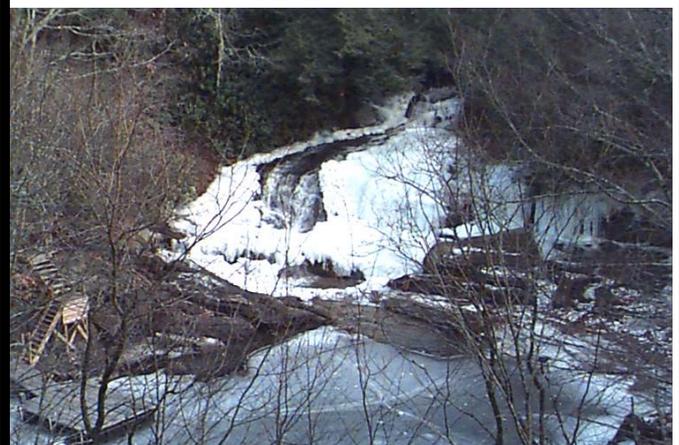
The Volunteer Water Information Network (VWIN) is a partnership of groups and individuals dedicated to preserving water quality in western North Carolina. Organizations such as the Friends of Lake Glenville, Inc., RiverLink Inc., the Environmental Conservation Organization of Henderson County (ECO), the Pacolet Area Conservancy (PAC), and the Lake Lure Lakefront Owners Association provide administrative support. The UNC-Asheville Environmental Quality Institute (EQI) provides technical assistance through laboratory analysis of water samples, statistical analysis of water quality results, and written interpretation of the data. Volunteers venture out once per month to collect water samples from designated sites along streams and rivers in the region.

In June 2000, the Friends of Lake Glenville initiated a local branch of the VWIN program to monitor seven selected stream sites monitored monthly and one control site monitored twice annually in order to assess water quality conditions in streams flowing into Lake Glenville. With sedimentation and other pollutants from continued development around the lake a growing concern, many citizens realize the need for continuous monitoring of the streams flowing into the lake as a means of trying to pinpoint sources of water quality problems. This condensed re-

(Continued on page 6)

Winter on the Lake

While many of our members are enjoying sunshine and balmy temperatures, the year-round residents of the lake see things differently.



Partially frozen Hurricane Falls pouring into the origin of Lake Glenville, with thick ice on the water's surface.

Additional photos of Winter Page 2

More Mountain Winter Scenes



Ted Okolichany plowing his driveway
Ted says he prefers snow to ice on Fenley Forest Trail.



The late "RJ" Okolichany helping Ted clear his driveway.
RJ had as much fun in the snow as any kid.

Pine Creek Road-Dam/Bridge Replacement Update

The North Carolina Department of Transportation (NCDOT) conducted a workshop on October 30 2001, at the Glenville CDC Community Center. The purpose of the workshop was to present to lake residents the plans to replace the Bridge (No.193 on SR 1157) over the Thorpe Dam Spillway at the north end of Lake Glenville. The proposed improvements are needed due to the deteriorated state of the existing bridge and the need for a new structure that conforms to current NCDOT standards. The project includes removing the old structure, constructing new footings, piers, stems, adding rock, removing and changing the clay plugs in the dam, and widening the roadway to 26 feet. The new bridge will be 380 feet in length with two 12 foot traffic lanes.

During construction traffic will be detoured along NC 107 and SR 1145 (Norton Road). The NCDOT needs Lake Glenville to be drawn down to 13 feet below full pool in order to start construction. Duke Power will start lowering the Lake in September 2002, and NCDOT plans to start demolition and construction in early November 2002. The road will be closed during the construction period of 8 to 10 months. Duke Power should be able to start refilling the lake in April, 2003 even though the project will not be completed until four to six months later.

The following is the time line as presented to FLG representatives at the workshop.

1. Currently "Right of Way" Acquisition is taking place.
2. Present through June, 2002 - Permitting from FERC, DNR, Wildlife, Etc.
3. June, 2002 - Construction Contract to be let by NCDOT.
4. September, 2002 - Lake Draw Down to begin by Duke Power.
NCDOT needs lake to be 13 feet below full pool level.
5. November, 2002 - Road Closed - Demolition begins on old bridge and dam.
6. December, 2002 - Construction begins on project.
7. December, 2002 through April, 2003 - Construction of Dam Plugs, Footings, Piers.
8. April, 2003 - Duke Power starts refilling the Lake. (Normally starts in January.)
9. April through July, 2003 - Construction of bridge and widening of roadway continues.
10. August, 2003 - Roadway should be re-opened to normal traffic.

Remember all dates are approximate and will be directly effected by the weather and amount of snow and rainfall during the construction period. Snow and rain along with Duke Power needs to generate will also affect the lake level during the draw down and refilling process.

For more information on the project contact Mr. Joel Setzer, PE, NCDOT -Division Construction Engineer, Project Manager, at (828) 586-2141 Ext. 214, or Email: jsetzer@dot.state.nc.us or check the FLG web site.

HAVE YOU RENEWED YOUR MEMBERSHIP THIS YEAR?

If so, GREAT! You are helping make Lake Glenville vigorous and healthy.
If not, use the form on Page 5 TODAY.

RE-LICENSING CONTINUES

Carol Adams, Stakeholder Team Member and FLG Vice-President

The Tuckaseegee River Re-licensing Cooperative Stakeholder Team has met monthly for a year and a half to gather facts, data and expert information concerning the re-licensing issue. The importance of re-licensing is better understood when one considers that the application being undertaken by Duke Power is a five year process, and that every aspect of the Tuckaseegee River basin it's lakes and dams are addressed in the application. The resulting license will govern Duke Power's operations for the next 30 to 50 years.

Lake Glenville continues to be well represented on the team with representatives from lake neighborhoods, local businesses and Friends of Lake Glenville in attendance as voting team members, alternates or observers. On the team roster from Lake Glenville are: Carol Adams, Tater Knob; Viola Bryson, Glenville CDC; Jackie Cochran, Fenley Forest; Helen Cook, Glen-shore; Marty Jones, Lake Glenville Fishing Service; Sam Lupas, The Lake Club; Doug Odell, Friends of Lake Glenville; Phil Fowler, Friends of Lake Glenville; Jackie Cochran, Fenley Forest; Bob Shuey, Signal Ridge Marina; Greg Ward, Trillium; The stakeholder team numbers 43 in total with the majority of members being recreation organizations, coalitions, associations and businesses (kayakers, rafters, anglers), or officials representing Duke Power, federal and state agencies, Jackson and Bryson counties and the City of Sylva. In addition, other non-voting interested parties are generally in attendance such as Wolf and Bear Lake homeowners and members of the media. Facilitators provided by the Natural Resources Leadership Institute (NRLI) of NC State University lead this diverse group.

During recent meetings the stakeholders heard reports and results from a variety of technical studies that have been conducted by experts, consultants or scientists contracted by Duke Power. There are 33 scheduled technical study plans. Reports presented to date are: Wildlife Inventory (Bats and Birds); Fish Survey; Botanical Survey; Muscle Survey; Macrobenthic Survey; Aquatic Habitat Inflow Survey; Power Plant Historic Assessments. There has been no final report on the river kayaking and rafting study conducted in July with various flows from water releases. The preliminary results rated the river average to

excellent for these boating activities. The angling study conducted in October also relied on flow releases. Data has been compiled but no final evaluations have been presented based on the ratings recorded.

Studies more specific to the lake will be conducted in spring and summer of 2002. One of the studies, a **lake usage survey**, is scheduled to be mailed RANDOMLY to lake and lake area residents in May 2002. **FRIENDS OF LAKE GLENVILLE MEMBERS ARE URGED TO WATCH FOR THE ARRIVAL OF THIS SURVEY, IF YOU ARE CHOSEN TO RECEIVE IT, AND TO PLEASE RESPOND SO WE STRENGTHEN OUR VOICE ON LAKE ISSUES.**

In November and January Duke Power personnel presented information on power generation policies, energy consumption and conservation. George Galleher, Duke Power Lake Manager, who is responsible for lake management policies and planning activities, spoke at several meetings in answer to lake property owner's concerns particularly from Wolf Lake homeowners who are dissatisfied with trash removal and trespassing issues on the lake. Other shoreline policies such as shoreline leases and lake law enforcement continue to be issues with Lake Glenville folks as well. Galleher has formed a focus group which will convene in May to discuss these and other lake issues.

At the February meeting W.J. Holloman Jr. from NC Wildlife discussed boating safety and enforcement. Also, Duke Energy presented a "trial balloon" which laid out Duke's starting point positions concerning all of the re-licensing issues.

More re-licensing information and a complete list of the planned technical studies with available results can be found on the internet. Go to www.nantahalapower.com then click on relicensing.

The next stakeholder's meeting is scheduled for April 18th at the Duke Power Building in Franklin. Interested observers are always welcome. Any Friends Of Lake Glenville members interested in attending as an observer should contact one of the stakeholder members for arrangements.

FLG MEMBER BREAKFASTS

Dear FLG members,

It is about that time of year again when our thoughts of summertime fun turn to Lake Glenville. Over the past few years the Board of Directors of the Friends of Lake Glenville have offered breakfast meetings for an informal exchange of ideas among our members, with most of the recent ones at The Landings at Trillium. We also try to bring in a speaker to inform us all on issues pertaining to the lake.

Lynn Leach has volunteered to be our social co-chairperson this year and is already making plans for these breakfasts, the Sun-downer, and the Annual Meeting. In order for us to be successful in our endeavors, Trillium has asked for a guaranteed minimum

headcount and an estimated number who will attend in order for them to prepare enough food for our group. Because of this, we need some input from you, our members, as to your interests in these meetings.

Please e-mail, phone, or get in touch with one of the Board of Directors if you wish for us to continue these meetings. We would also like to know when, where, and how often you would like to have these meetings. Any suggestions you have would be greatly appreciated. We are here for you. Please feel free to call or e-mail me at 828-743-9252 or nclamama@yahoo.com with FLG as the subject.

Wishing you all a great summer, Jackie Cochran, Treasurer

MEMBERSHIP DRIVE BRINGING RESULTS

Sightings Of Friends Of Lake Glenville Auto Decals Increasing

“ We are persistently gaining on our “double the membership” goal” reports Carol Adams, vice president and chair of the membership committee. Adams along with committee members, Helen Cook, Gail Crawford, Joy Hooper, Bill Lindquist, Joanne Lindquist, and Dede Rietze launched the drive with an initial telephone campaign asking members to renew their expired memberships. Response has resulted in approximately thirty renewal memberships to date. Most members were unaware that their memberships had expired. A membership paid prior to July 2001 is now expired and the 2001-2002 membership fee is due. The 2001-2002 membership is valid until July 2, 2002.....one month in advance of the annual meeting.

A second stage of the membership drive, gaining new members, was also launched in the fall with a mailing to members and property owners of Trillium Links and Lake Club. Trillium general manager, Joanne Valent, accompanied a copy of the fall Friends of Lake Glenville newsletter with her letter encouraging her members to join FLG where education, communication and co-operation insures that Lake Glenville will “continue to be the valuable asset we have all come to enjoy”. In her letter Valent cites the accomplishments of The Friends of Lake Glenville including dedication to Water Safety and Law Enforcement Programs, the Water Quality Program and salutes the FLG volunteers and members who have set the organization goals and made positive impact.

As the membership drive swings into spring “high-gear”, the membership committee is soliciting 100% membership from all of the residential neighborhoods around the lake. A contact for each neighborhood will spearhead the drive by delivering membership applications to residents who are not FLG members. Membership committee members and FLG board members are available to speak to neighborhood associations by request to better inform lake residents about the organization.

Sightings of the Friends of Lake Glenville auto decal, received by all renewing and new members, are on the increase! The decal is THE sign of the times in Glenville! If you are reading this newsletter and have not joined, please use the membership application included in the newsletter to receive your decal and then all the benefits of being a member of Friends of Lake Glenville.

FLG ADVERTISING AND SPONSORSHIP PROGRAM AN OPPORTUNITY FOR AREA BUSINESSES AND SERVICES

Friends of Lake Glenville is offering advertising and sponsorship programs designed to help businesses and services convey their commercial message to the community. The advertising package includes opportunities for FLG project sponsorships, newsletter advertising and links on the FLG website.

The FLG advertising and sponsorship committee began making contact with area businesses and services in early February. Advertising and sponsorship information can be requested through the FLG website www.friendsoflakeglenville.com or by calling Carol Adams at 404 237-9085 or Nancy Tatum at 828 743- 6518.

We'd like to hear from you...

To the FLG webmaster: flg28736@yahoo.com or PO Box 93, Glenville NC 28736

To the newsletter editor: hmaustin@mindspring.com or PO Box 720560, Atlanta GA 30358-2560

Tell us what you like, what you don't like, what you want to know about that is not now included, and anything else on your mind. Short stories about lake history, life on the lake, or current lake news would be welcome too. We would especially like to hear your thoughts on Member Breakfasts and whether or not they should continue, what topics or speakers should be included, or whether they should just be a social gathering. Letters to the Editor may be edited, depending on available space.

Is There a Parliamentarian in Our Midst?

The Friends of Lake Glenville is seeking a parliamentarian to volunteer their services during the August annual meeting and for other parliamentary questions as needed. Anyone interested please contact Friends of Lake Glenville President Jim Zoller at 828 743-1020 or jim@zollerhardware.com.

Join the Friends of Lake Glenville for 2002



FRIENDS OF LAKE GLENVILLE 2002 Membership Dues

Name(s): _____
Lake address: _____ "Home" address: _____

Mail all newsletters and other correspondence to ___ lake address or ___ home address (choose one only for whole year).
Phone: _____ Phone: _____
Email at lake: _____ Email at home: _____
Lake 911 address if above is PO Box: _____
Lake neighborhood name and/or general area: _____

Membership type: **Voting*** \$25 annually ___
 Associate \$15 annually ___

Sponsorships: **Bronze**** (\$100-\$199) ___
 Silver*** (\$200-\$299) ___
 Gold**** (\$300 and up) ___
 Other ___ (contact FLG president)

If you would like to be an active participant on an FLG committee, please check your choice(s):

- | | |
|--|--|
| <input type="checkbox"/> Membership | <input type="checkbox"/> Communications |
| <input type="checkbox"/> Water/boating safety | <input type="checkbox"/> Re-licensing |
| <input type="checkbox"/> Water quality | <input type="checkbox"/> By-laws revision |
| <input type="checkbox"/> Lake/shoreline law enforcement | <input type="checkbox"/> Social |

* Active member(s) is/are property owners and/or registered voters within one mile of the lake or within Hamburg Township.
** Bronze Sponsorship includes: 1 Family membership, FLG decal, 2 Bronze pins (while supplies last), acknowledgment in future newsletter
*** Silver Sponsorship includes: 1 Family membership, FLG decal, 2 Silver pins (while supplies last), acknowledgment in future newsletter
**** Gold Sponsorship includes: 1 Family membership, FLG decal, 2 Gold pins (while supplies last), acknowledgment in future newsletter

Duplicate membership form or cut out and mail to:
Friends of Lake Glenville
P.O. Box 493
Glenville NC 28736

Must be *received* one month prior to Annual Meeting (this year July 3 2002), in order to vote at Annual Meeting August 3rd 2002, per FLG By Laws.

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port represents some of the statistical analyses and interpretation of data gathered by VWIN volunteers from June 2000 through July 2001.

Understanding the water quality of the streams that flow into Lake Glenville is vital to understanding the water quality of the lake itself. As development continues around the lake, however, activities on the land immediately adjacent to the lake will also be an important factor in the health of the lake.

Chemical analysis of samples collected at the Lake Glenville sites are intended to characterize the water quality relative to the parameters established by the Volunteer Water Information Network program. Information from the program can be used by concerned groups and individuals to help identify problems and evaluate solutions.

Characterizing the water quality of the county is a complex task, and interpretation of the data can be difficult due to many factors. With continued long term monitoring, however, various trends become more evident. The VWIN program is currently monitoring over 190 sites in nine Western North Carolina counties. Of these, sufficient data exists to compare water quality from 178 sites.

The ranking system has recently been altered to allow grouping by parameters into categories. This system permits comparison of specific water quality problems such as stream sedimentation, urban runoff of chemicals and heavy metals, and nutrient loading. The table below is a summary of ranking of Lake Glenville stream sites by water quality issues. With this information it is easier to focus on related water quality problems.

As can be seen from the table at the bottom of the page, the streams analyzed in the Glenville area are generally in better condition than most streams analyzed in the mountain region by the VWIN program. With a few exceptions, most streams show low conductivity levels (chemical salts) and low levels of heavy metals and nutrients.

The most frequent water quality problem observed in the area, as with Western North Carolina streams in general, is stream sedimentation. For most sites, any other problems observed are also

likely to be related to stream sedimentation as many pollutants are carried into streams attached to sediment. For these streams, reducing sedimentation from runoff will also likely reduce inputs of other pollutants. It is possible that there may be point-source inputs of nutrients, but there is insufficient data to determine statistically significant relationships between stream flow and nutrient concentrations.

Even with only twelve sets of analyses, however, it is clear that rains have an effect on stream sediment concentrations and water clarity. Sites most affected are Mill Creek, Pine Creek, and Cedar Creek. As Mill Creek and Pine Creek are in the same area, similar land disturbing activities may be the source of the problem for both streams. Potential sources to be investigated are unpaved roads, construction sites, bank erosion, and agriculture, particularly where there are livestock adjacent to streams.

Cedar Creek also exhibits unusually high zinc concentrations at almost all times. In fact, only two sites in the region, both very urban streams in Asheville, show median zinc concentrations greater than at Cedar Creek. Considering the lack of urbanization in the Glenville area, urban runoff is probably not the source at Cedar Creek. Considering the high sedimentation levels during rains, this creek may be receiving runoff from an area or areas where the rock contains high levels of zinc and the land has recently been disturbed. The sandy stream bed at the collection site suggests that a great deal of sediment has collected in this stream from current or past land disturbing activities in the area. Bank erosion may also be a significant factor. The sand and silt in the stream bed may contain high levels of zinc. This stream may also have areas where the banks are heavily eroding and carrying new material into the stream. There are other potential sources of zinc to a stream and all avenues should be explored. The low pH levels observed in the entire Glenville area including Cedar Creek also cause the heavy metals to become more soluble, thus increasing their concentrations in the water column.

The Glenville area shows the lowest median pH and alkalinity levels of any area analyzed in the VWIN program. There are several probable causes. The average elevation of the stream sites monitored is higher than most other areas monitored, and higher elevation streams are generally more acidic. The Glenville area also receives greater rainfall than much of the rest of the VWIN

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site #	site name	sediment	metals	nutrients	overall
	VWIN - WNC Regional Average	71	81	77	76
	average for Lake Glenville stream sites	70	93	87	83
2	N-1 Norton Creek at N. Norton Rd bridge	75	100	83	86
3	M-1 Mill Creek downstream from N. Norton bridge	25	100	75	67
	P-1 Pine Creek at Pine Creek 4Rd bridge	50	100	83	78
5	G-1 Glenville Creek at Tator Knob Rd	100	100	100	100
6	C-1 Cedar Creek at Bee Tree Rd bridge	50	50	83	61
7	N-2 Norton Creek above Grassy Camp	88	100	92	93
	percent sites below regional average	43%	14%	14%	29%

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monitoring region in the mountains. The soil and rock composition of the area may also be more acidic. Although low alkalinity levels have no direct effect on water quality, they are an indication of the potential for pH extremes. Alkalinity levels at Norton Creek have fallen below the minimum level that is considered to be sufficient buffering capacity, and Hurricane Creek and Glenville Creek have been very close to that point. These streams could be highly vulnerable to acid deposition. The drought of the last few years may have prevented extreme pH swings from occurring, but a return to normal rainfall levels could cause problems if measures are not taken to further reduce sulfur emissions from coal-fired power plants which are the main cause of acid deposition.

Water quality in the Glenville area is still generally excellent. Streams such as Hurricane Creek, Glenville Creek, and Norton Creek still exhibit good to excellent water quality even during rains when many streams in Western North Carolina region become particularly vulnerable to pollution. However, this is the time, before extensive development occurs, to ensure that water quality remains excellent in the future. The establishment in Jackson County of an erosion control ordinance was a major step in this direction. Locating current sources of pollution in the region is the next step. This first year of monitoring has provided some basic information on water quality of the streams entering Lake Glenville. Hopefully, it will be used to help identify pollutant sources and correct problems.

One year of data can only provide a baseline of information. It is not sufficient information to determine trends. Therefore The Friends of Lake Glenville have entered into an agreement with UNCA to continue monitoring our input stream sites. Comparative year to year data will become available as monthly tests are performed and results analyzed.

[Editorial note: A complete version of this report with numerous informative charts and graphs is available on the FLG web site at "www.friendsoflakeglenville.com" courtesy of Keith Dixon.]

"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. 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.*

Jackson County Board of Commissioners 586-4055

<p>Stacy Buchanan-District # 3 P.O. Box 332 Webster, NC 28788 Home-828-293-5236 Work-828-586-2177 x-210</p>	<p>Franz Whitmire-District# 4 P.O. Box 98 Glenville, NC 28736 Home-743-3366</p>
<p>Roberta Crawford-Dist. # 1 372 Brooks Branch Road Sylva., NC 28779 Home-586-2607</p>	<p>Jay A. Denton-County Wide Chairman and County Manager 401 Grindstaff Cove Road Sylva, NC 28779 Work-586-7580 Fax-589-7528</p>
<p>Conrad Burrell # 2 P.O. Box 201 Sylva NC 28779 586-4301</p>	

Friends of Lake Glenville Board of Directors

Jim Zoller President	743-1020	jim@zollerhardware.com
Carol Adams VP	743-1658	casolveit@yahoo.com
Jackie Cochran Treas	743-9252	ncflamamma@yahoo.com
Howard Austin	743-9494	hmaustin@mindspring.com
Keith Dixon	743-4166	kkdnc@yahoo.com
Neil Greiser	743-3900	mng@gte.net
David Leach	743-1825	leachga@earthlink.net
Doug Odell	743-5079	dodell@juno.com

Other Important Local Telephone Numbers:

Jackson County Sheriff-Cashiers:	743-3333
Jackson County Sherriff-Sylva	586-4355
Jackson County Rescue Squad-Cashiers	743-3655
Richard Conley, Lake Manager, Duke Power	369-4513
John Wishon, Relicensing, Duke Power	369-4604
George Galleher, Manager, Lake Mgmt, Duke Power, Charlotte NC	704-382-5236, 800-777-3853
Army Corps of Engineers	828-271-4856
North Carolina Wildlife-Brent Hyatt	293-3417



Friends of Lake Glenville
P.O. Box 493
Glenville, NC 28736

For the latest information about the Friends of Lake Glenville meetings, notices, dam relicensure, lake water level or condition, or any other lake related material or links, check www.friendsoflakeglenville.com

Friends of Lake Glenville

Winter 2002



On the web: www.friendsoflakeglenville.com