

Yadkin-Pee Dee River Hydroelectric Project
FERC No. 2206

Progress Energy

APPLICATION FOR LICENSE

Exhibit E7
Recreational Resources

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Exhibit E7 – Recreation Resources

7.0 Regulations Defining the Contents of Exhibit E7

The following excerpt from the Code of Federal Regulations (CFR) at 18 CFR § 4.51 describes the required content of this exhibit.

- (5) *Report on recreational resources. The report must discuss existing and proposed recreational facilities and opportunities at the project. The report must be prepared in consultation with local, state, and regional recreation agencies and planning commissions, the National Park Service, and any other state or Federal agency with managerial authority over any part of project lands. Consultation must be documented by appending to the report a letter from each agency consulted indicating the nature, extent, and results of the consultation. The report must contain:*
 - (i) *A description of any existing recreational facilities at the project, indicating whether the facilities are available for public use;*
 - (ii) *An estimate of existing and potential recreational use of the project area, in daytime and overnight visits;*
 - (iii) *A description of any measures or facilities recommended by the agencies consulted for the purpose of creating, preserving, or enhancing recreational opportunities at the project and in its vicinity (including opportunities for the handicapped), and for the purpose of ensuring the safety of the public in its use of project lands and waters;*
 - (iv) *A statement of the existing measures or facilities to be continued or maintained and the new measures or facilities proposed by the applicant for the purpose of creating, preserving, or enhancing recreational opportunities at the project and in its vicinity, and for the purpose of ensuring the safety of the public in its use of project lands and waters, including an explanation of why the applicant has rejected any measures or facilities recommended by an agency and described under paragraph (f)(5)(iii) of this section; and*
 - (v) *The following materials and information regarding the measures and facilities identified under paragraphs (f)(5) (I) and (iv) of this section:*
 - (A) *Identification of the entities responsible for implementing, constructing, operating, or maintaining any existing or proposed measures or facilities;*
 - (B) *A schedule showing the intervals following issuance of a license at which implementation of the measures or construction of the facilities would be commenced and completed;*
 - (C) *An estimate of the costs of construction, operation, and maintenance of any proposed facilities, including a statement of the sources and extent of financing;*

- (D) *A map or drawing that conforms to the size, scale, and legibility requirements of § 4.39 showing by the use of shading, cross-hatching, or other symbols the identity and location of any facilities, and indicating whether each facility is existing or proposed (the maps or drawings in this exhibit may be consolidated); and*

- (vi) *A description of any areas within or in the vicinity of the proposed project boundary that are included in or have been designated for study for inclusion in, the National Wild and Scenic Rivers System, or that have been designated as wilderness area, recommended for such designation, or designated as a wilderness study area under the Wilderness Act.*

7.1 Introduction

This Exhibit provides detailed information describing the existing and proposed future recreational resources associated with the Yadkin-Pee Dee River Project. This information is based on data collected by Progress Energy during the 2004 to 2005 recreational studies. This Exhibit also contains discussion of proposed protection, mitigation and enhancement (PM&E) measures to address Project effects on recreation resources. Information regarding the relicensing consultation process is also presented in this Exhibit.

Progress Energy's Yadkin-Pee Dee River Project (Project) is located on the Yadkin and Pee Dee rivers in south-central North Carolina. The Project consists of two developments, the upstream Tillery Development and the downstream Blewett Falls Development. The Yadkin-Pee River basin is the second largest in North Carolina covering 7,186 mi² measured at the North Carolina-South Carolina state line. The Yadkin River originates near the town of Blowing Rock, North Carolina and flows northeasterly for approximately 100 miles from the Blue Ridge Mountains into the Piedmont physiographic region. As the river turns southeast, it enters an area in central North Carolina that has experienced considerable urban growth. This growing urban area extends from Charlotte to Raleigh/Durham and is known as the Piedmont Crescent. Just to the south of the Piedmont Crescent, the region enters an area known as the Uwharrie Lakes Region. This region is named for the chain of six reservoirs located along this reach of the Yadkin and Pee Dee rivers, the lowermost two of which are Lake Tillery and Blewett Falls Lake. It is in this region that the Uwharrie River joins the Yadkin River at the upper end of Lake Tillery to form the Pee Dee River (Progress Energy 2003).

The Uwharrie Lakes provide a variety of recreational opportunities including boating, canoeing, swimming, fishing, and most other water sports. The lands surrounding the Project offer scenic beauty and a variety of activities including hiking, camping, hunting, biking, horseback riding, and nature viewing. This region of the state has also been termed North Carolina's "Central Park" with the idea that the area could serve as a rural hub for outdoor recreation and tourism for local residents and the growing urban population of the metro areas in the region (ASU 1999). The Project is located within four counties - Anson, Montgomery, Richmond, and Stanly. Outdoor public recreation facilities are available in each of the counties.

The Pee Dee River below Lake Tillery was rated by the National Park Service (NPS) as having an outstanding remarkable value (ORV) designation for recreation. This designation indicates that the recreational opportunities are, or have the potential to be, popular enough to attract visitors from throughout or beyond the region or are unique or rare within the region (NPS 2001).

Recreational studies were conducted by Progress Energy during 2004 and 2005 in accordance with the study plan developed by the Land Use and Recreation Resource Working Group (RWG) during 2003 and discussions with resource agencies in 2004 and 2005 (Progress Energy 2004). Methods pertaining to the study are described in the study plan located in Appendix A of this License Application.

7.2 Regional Recreation Resources

North Carolina Overview

Approximately 2,756,000 acres or 9 percent of the State of North Carolina is considered as recreational acreage which includes state gamelands and state- and federally-owned forests and parklands. The five most popular outdoor activities in North Carolina are walking for pleasure, driving for pleasure, viewing scenery, beach activities and visiting historical sites (North Carolina State Comprehensive Recreation Plan [NC SCORP] 2005). There are numerous state programs offering recreational opportunities to the public. These are managed under the North Carolina Parks System and the North Carolina Wildlife Resources Commission (NCWRC).

- **North Carolina State Parks System** - The state park system consists of approximately 197,347 acres of land and water organized into 34 park units and 25 other management areas. These consist of parks, lakes, recreation areas, rivers, trails and natural areas distributed throughout the state.
- **North Carolina Wildlife Resources Commission** - The NCWRC was established to manage and regulate the state's wildlife resources and to enforce associated regulations. The NCWRC manages approximately two million acres of state-, federally-, and privately-owned gamelands on which the public may hunt and fish with a special permit. NCWRC also maintains boating access to 80 different water bodies in the state, including the Project reservoirs (NC SCORP 2005).

The federal government also manages a number of federal properties that offer recreational opportunities within the state. These include parks, forests, and wildlife preserves. Agencies providing recreational opportunities include the U.S. Department of Interior (DOI), the U.S. Department of Agriculture (USDA), and U.S. Department of Defense (DOD). Under the DOI, the National Park Service (NPS) administers 10 areas that are set aside for their natural, recreational and historic interest. Also under the DOI, the U.S. Fish and Wildlife Service (USFWS) manage 11 national wildlife refuges comprising 416,000 acres.

The U.S. Forest Service (USFS) administers four areas in the state totaling in excess of 1.24 million acres that make up a significant portion of North Carolina's recreational resources. (NC SCORP 2005) This includes the 50,183 acres of the Uwharrie National Forest located near the Project. In addition, the National Wilderness Preservation System includes 12 designated wilderness areas totaling 111,342 acres administered by the USFS within North Carolina.

The U.S. Army Corps of Engineers (ACOE) has developed four water resource projects in North Carolina that have recreational facilities. One of these, W. Kerr Scott Reservoir, is located on the Yadkin River. The ACOE leases this area to the State of North Carolina (NC SCORP 2005).

Regional Recreation Resources

There are a number of regional attractions in proximity to the Project area providing recreational opportunities and facilities. These attractions include the Uwharrie National Forest, Morrow Mountain State Park, Pee Dee National Wildlife Refuge, and the Pee Dee River Canoe Trail.

- **Uwharrie National Forest** - The Uwharrie National Forest was first purchased by the federal government in 1931 during the Great Depression. The 50,189-acre Uwharrie National Forest is located to the northeast of the Tillery Development. The forest provides a variety of natural resources and recreational activities. The Uwharrie National Forest hosts over 240,000 visitors annually (ASU 1999).
 - **Camping** - There are more than 120 camping sites available at 10 designated camping areas within the forest; however, primitive camping is permitted anywhere within the national forest, except where no camping is posted. Designated campgrounds range in amenities from simple tent platforms to full service including water, trailer parking, and pump out services.
 - **Fishing** - The eastern shore of Badin Lake, located upstream of Lake Tillery, borders the National Forest, and the lake is well stocked with catfish, bream, largemouth bass, white bass, and striped bass. The lake is heavily utilized by pleasure boaters in the spring and summer, and bass tournaments are typically held every weekend from March through October. The National Forest also offers river fishing on the Uwharrie River.
 - **Hunting** - The Uwharrie National Forest is part of public lands managed by NCWRC for hunting, trapping, and fishing. Deer, turkey, and small game including rabbits, dove, raccoon, and quail are all popular quarry in the National Forest. The National Forest offers a wide range of hunting opportunities from easy drive-in access to “off the road” adventures.
 - **Mining** - Recreational panning for gold is allowed on most of the Uwharrie National Forest. However, in some areas, the minerals are privately owned and written permission is required from the mineral owner prior to beginning collection. No fee or permit is required as long as only shovel and pan techniques are used and no significant stream disturbance results. In addition to the gold mining, there are ample opportunities to collect rocks and minerals as a hobby with no fee or permit required as long as National Forest rules are followed.
 - **Off-Road Vehicle Use** - There are a total of 16 miles of trails for off-road vehicles (OHV). The trails are open from April 1 to December 15. There is a fee of \$5.00 per day or \$30.00 per season to access these trails. The OHV trail system in the Uwharrie offers a variety of topography and scenery. All trails are designated for all OHVs, except for a small portion of the Dickey Bell Trail located west of SR 6584 which is suitable only for use by ATVs or motorcycles.
 - **Mountain Biking** - There are three trail systems located between Albemarle and Troy east of bridges over Lake Tillery and the Pee Dee River. Mountain biking is prohibited on the Uwharrie and Dutchman’s Creek hiking trail.
 - **Trails** - The Uwharrie National Forest has over 50 miles of trails. From a one-mile loop trail along Densons Creek to the 21-mile Uwharrie National Recreation Trail, Uwharrie’s maintained trails vary in length and mode.
- **Morrow Mountain State Park** - Morrow Mountain State Park is located in Stanly County on the upper northwestern section of Lake Tillery outside of the Project Boundary. The park, which is the third oldest state park in North Carolina, was opened to the public in 1939. The park boundary encompasses approximately 4,742 acres (North Carolina Division of Parks and Recreation [NCDPR] 2002). Waters and woodlands associated with the park are home to a variety of plant and animal life. The park offers numerous opportunities for recreation

including boating, fishing, camping, and hiking. There are approximately 300,000 visitors who visit Morrow Mountain State Park annually (ASU 1999).

Water-related recreation facilities at the park include a one-lane boat ramp located at the end of the park road, two docks, parking for about 35 vehicles, and boat and canoe rentals. The park offers access to Lake Tillery from an accessible pier or the shore. Game fish in this portion of the lake include largemouth bass, striped bass, white bass, crappie, perch, bluegill, and catfish.

Camping facilities range from primitive to full service. There are more than 100 campsites for tents and recreational vehicles (RVs). Drinking water and modern restrooms with showers are conveniently located, and a pump-out facility is available; however, there are no RV hookups. Primitive camping is offered in a wilderness setting, accessible via a 2-mile hike from the park office. Camping facilities range in price from \$9.00 to \$40.00 and camping is allowed by permit only.

There are more than 15 miles of trails that wind through Morrow Mountain State Park, including to the top of Morrow Mountain at 936 ft above mean sea level. Trails range from short, self-guided nature trails to more extensive hikes into the woodlands.

Other recreation facilities at the park include a swimming pool, equestrian trails, picnic areas, a natural history museum, and an outdoor amphitheater (Carolina Power & Light [CP&L] 2001). No hunting or trapping is permitted within the park boundaries.

- **Pee Dee National Wildlife Refuge** - The Pee Dee National Wildlife Refuge, established in 1963, is located in Anson and Richmond counties bordering the Pee Dee River. The refuge is located between the Tillery and Blewett Falls Developments and encompasses 8,443 acres (DOI 1983). The original purpose of refuge was "...for use as an inviolate sanctuary, or for any other management purpose for migratory birds" (DOI 1983). Current refuge goals include resource protection, habitat restoration, resource management, environmental education and interpretation, and wildlife oriented recreation.

The Pee Dee National Wildlife Refuge offers a variety of public use opportunities. Activities at the Pee Dee National Wildlife refuge include wildlife viewing, hiking, and hunting. The refuge is open year-round from sunrise to sunset.

Birding and general wildlife viewing are the fastest growing activities on the refuge. A quarter-mile handicapped-accessible nature trail leads from the parking lot on the wildlife drive to an observation blind that overlooks both Sullivan's Pond and Sullivan's Impoundment. The refuge also supports a 3-mile nature trail and a 2½-mile interpreted wildlife drive. In addition to these trails, the refuge maintains a number of wood roads that access remote portions of the refuge.

Fishing is open from March 15 to October 15 on six of the ponds located within the refuge boundaries, Brown Creek, and the Pee Dee River. Largemouth bass, bluegill, crappie, and catfish are some popular species of interest. In addition to fishing, the refuge offers a hunting season from early September to late February. A free permit is required for hunting mourning

doves, squirrels, raccoon, quail, rabbit, and deer by archery. A special quota permit is required for youth deer hunts and hunting deer with firearms (GORP 2002).

- **Pee Dee River Canoe Trail** - The Pee Dee River Canoe Trail is located within the southern leg of the larger Yadkin-Pee Dee River Canoe Trail, a 230-mile water trail designated by the NCDPR. The Pee Dee River Canoe Trail begins at the Lake Tillery boat access at Morrow Mountain State Park in Stanly County, and ends at the Blewett Falls Dam between Anson and Richmond counties. The journey is a 37-mile paddle with several side rivers that provide a number of interesting variations and trip options.

Progress Energy's Yadkin-Pee Dee River Project is located in Anson, Richmond, Montgomery, and Stanly counties. The towns and communities within the counties offer recreational facilities to the public that consist of passive and active opportunities. A survey of the recreational acreage as well as a facility inventory for all of the counties in North Carolina was performed as a part of North Carolina's SCORP. The results of those surveys are presented by county in Tables E7-1 through E7-4.

Table E7-1 Public recreational acreage and facility inventory of Anson County.

| Type of Park Acreage or Outdoor Recreational Facility | Total Number | County Resident per Unit in 2000 | |
|--|--------------|----------------------------------|--------------|
| | | Anson | State Median |
| Dispersed Use Acres | 7,514 | 3.4 | 25 |
| State / Regional Park Acres | 3 | 8,442.7 | 2,886 |
| Local Park Acres | 163 | 155 | 262 |
| Baseball Fields | 11 | 2,303 | 9,752 |
| Softball Fields | 1 | 25,328 | 15,234 |
| Baseball / Softball Fields (multi-use) | 4 | 6,332 | 8,604 |
| Basketball Court | 2 | 12,664 | 9,385 |
| Picnic Shelters | 5 | 5,066 | 7,828 |
| Playgrounds | 4 | 6,332 | 7,828 |
| Football Fields | 0 | 0 | 90,065 |
| Soccer Fields | 4 | 6,332 | 14,113 |
| Football / Soccer Fields (multi-use) | 0 | 0 | 227,435 |
| Swimming Pool | 1 | 25,328 | 68,024 |
| Tennis Courts | 2 | 12,664 | 4,483 |
| Trails Miles (all types) | 3.1 | 8,170 | 7,098 |
| Volleyball Courts | 1 | 25,328 | 55,858 |

Source: NC SCORP 2005.

Table E7-2 Public recreational acreage and facility inventory of Montgomery County.

| Type of Park Acreage or Outdoor Recreational Facility | Total Number | County Resident per Unit in 2000 | |
|--|--------------|----------------------------------|--------------|
| | | Montgomery | State Median |
| Dispersed Use Area | 39,890 | 0.7 | 25 |
| State / Regional Park Acres | 60 | 448.4 | 2,886 |
| Local Park Acres | 82 | 328 | 262 |
| Baseball Fields | 3 | 8,967 | 9,752 |
| Softball Fields | 2 | 13,451 | 15,234 |
| Baseball / Softball Fields (multi-use) | 8 | 3,363 | 8,604 |
| Basketball Court | 4 | 6,726 | 9,385 |
| Picnic Shelters | 3 | 8,967 | 7,828 |
| Playgrounds | 5 | 5,380 | 7,828 |
| Football Fields | 0 | 0 | 90,065 |
| Soccer Fields | 0 | 0 | 14,113 |
| Football / Soccer Fields (multi-use) | 1 | 26,902 | 227,435 |
| Swimming Pool | 2 | 13,451 | 68,024 |
| Tennis Courts | 12 | 2,242 | 4,483 |
| Trails Miles (all types) | 61.5 | 437 | 7,098 |
| Volleyball Courts | 3 | 8,967 | 55,858 |

Source: NC SCORP 2005.

Table E7-3 Public recreational acreage and facility inventory of Richmond County.

| Type of Park Acreage or Outdoor Recreational Facility | Total Number | County Resident per Unit in 2000 | |
|--|--------------|----------------------------------|--------------|
| | | Richmond | State Median |
| Dispersed Use Acres | 31,125 | 1.5 | 25 |
| State / Regional Park Acres | 0 | 1.1 | 2,886 |
| Local Park Acres | 52 | 896 | 262 |
| Baseball Fields | 6 | 7,765 | 9,752 |
| Softball Fields | 3 | 15,531 | 15,234 |
| Baseball / Softball Fields (multi-use) | 6 | 7,765 | 8,604 |
| Basketball Court | 5 | 9,318 | 9,385 |
| Picnic Shelters | 11 | 4,236 | 7,828 |
| Playgrounds | 4 | 11,648 | 7,828 |
| Football Fields | 1 | 46,592 | 90,065 |
| Soccer Fields | 0 | 0 | 14,113 |
| Football / Soccer Fields (multi-use) | 0 | 0 | 227,435 |
| Swimming Pool | 2 | 23,296 | 68,024 |
| Tennis Courts | 8 | 5,824 | 4,483 |
| Trails Miles (all types) | 21 | 2,219 | 7,098 |
| Volleyball Courts | 1 | 46,592 | 55,858 |

Source: NC SCORP 2005.

Table E7-4 Public recreational acreage and facility inventory of Stanly County.

| Type of Park Acreage or Outdoor Recreational Facility | Total Number | County Resident per Unit in 2000 | |
|--|--------------|----------------------------------|--------------|
| | | Stanly | State Median |
| Dispersed Use Acres | 0 | 0.0 | 25 |
| State / Regional Park Acres | 4695 | 12.4 | 2,886 |
| Local Park Acres | 201 | 290 | 262 |
| Baseball Fields | 0 | 0 | 9,752 |
| Softball Fields | 0 | 0 | 15,234 |
| Baseball / Softball Fields (multi-use) | 4 | 14,583 | 8,604 |
| Basketball Court | 5 | 11,666 | 9,385 |
| Picnic Shelters | 4 | 14,583 | 7,828 |
| Playgrounds | 30 | 1,944 | 7,828 |
| Football Fields | 7 | 8,333 | 90,065 |
| Soccer Fields | 13 | 4,487 | 14,113 |
| Football / Soccer Fields (multi-use) | 0 | 0 | 227,435 |
| Swimming Pool | 3 | 19,444 | 68,024 |
| Tennis Courts | 24 | 2,430 | 4,483 |
| Trails Miles (all types) | 18 | 3,241 | 7,098 |
| Volleyball Courts | 7 | 8,333 | 55,858 |

Source: NC SCORP 2005.

7.3 Existing Recreational Resources at the Project

The Project provides the opportunity for people to enjoy numerous and diverse forms of recreation. The Tillery and Blewett Falls developments differ in their physical characteristics, with Lake Tillery being a larger and deeper lake and Blewett Falls Lake being a much smaller and shallower lake. Combined, these two lakes provide a truly diverse and rich recreation opportunity.

Public access to the Project is provided at 13 access points consisting of both developed and informal access areas. Table E7-5 presents a listing of the public access points for each of the lakes and the reach of river between Lake Tillery and Blewett Falls Lake. Figures E7-1 and E7-2 shows the location of each of these access points. Survey and spot count data from the public access areas of the Project are included in the discussion below and all (i.e., private sites and sites not managed by Progress Energy) survey and spot count locations are included in the tables.

Table E7-5 Yadkin-Pee Dee River Project access areas.

| Site | Site Location | Status | Reservoir |
|------|-----------------------------------|---------|---------------|
| 1 | Blewett Tailwater Access Area | Public | Blewett Falls |
| 2 | Pee Dee Access Area | Public | Blewett Falls |
| 3 | Grassy Islands Access Area | Public | Blewett Falls |
| 4 | Blewett Falls Canoe Portage | Public | Blewett Falls |
| 5 | U.S. Highway 74 Site ¹ | Public | Blewett Falls |
| 6 | Informal Tailwater Access Area | Public | Blewett Falls |
| 7 | Informal SR 1744 Site | Public | Blewett Falls |
| 8 | Highway 109 | Public | Pee Dee River |
| 9 | Norwood Access Area | Public | Tillery |
| 10 | Stony Mountain Access | Public | Tillery |
| 11 | Swift Island Access | Public | Tillery |
| 12 | Lilly's Bridge Access | Public | Tillery |
| 13 | Informal SR 1740 & SR 1745 | Public | Tillery |
| 14 | Morrow Mountain State Park | Public | Tillery |
| 15 | Tillery Canoe Portage | Public | Tillery |
| 16 | Twin Harbor | Private | Tillery |
| 17 | Holiday Shores | Private | Tillery |
| 18 | Woodrun | Private | Tillery |
| 19 | Carolina Forest | Private | Tillery |
| 20 | Informal Tailwater Access Area | Public | Tillery |

¹ U.S. Highway 74 site is located approximately 2.5 miles downstream of Blewett Falls Dam.

7.3.1 Tillery Development

There are a variety of opportunities for recreation on Lake Tillery. Formal recreation facilities exist in the form of marinas, public boat ramps, designated bank fishing facilities, private recreation facilities, and a nearby state park. Informal opportunities exist at unmarked sites throughout the Project for wildlife observation and shoreline fishing. Progress Energy leases all of its public access areas and recreation sites to the NCWRC. Figure E7-1 shows the recreational facilities located along Lake Tillery and downstream of Tillery Dam.

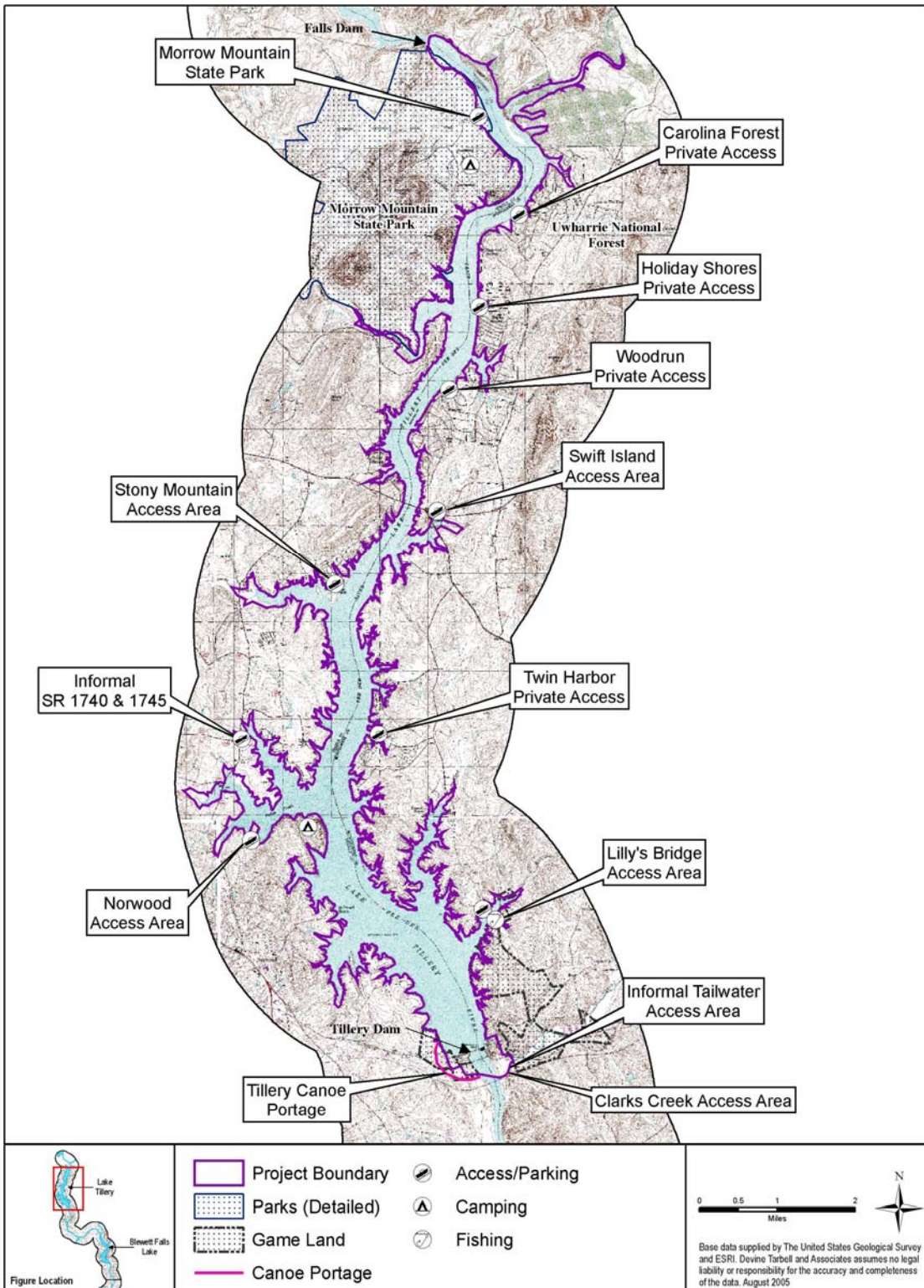


Figure E7-1 Lake Tillery access points.

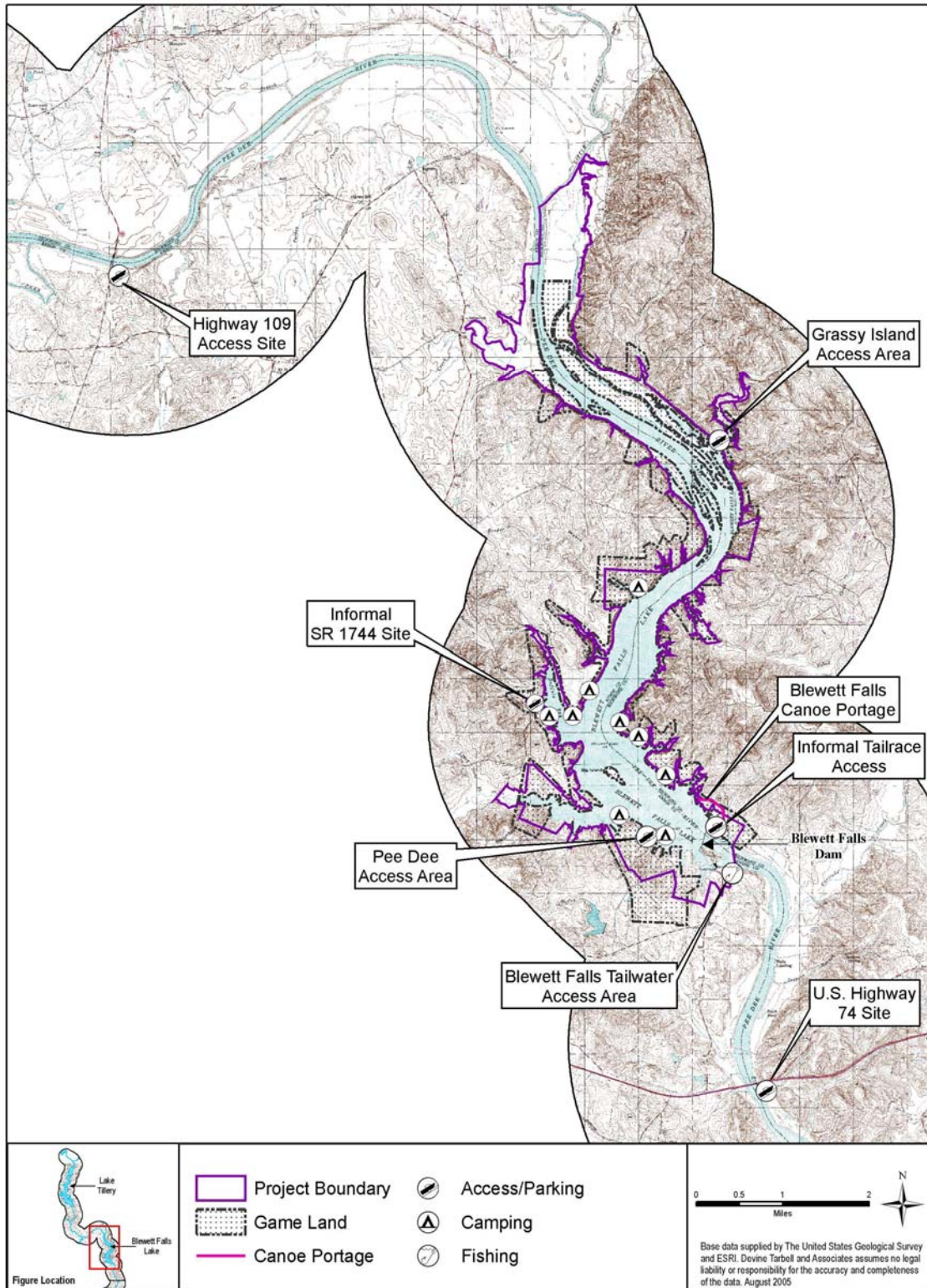


Figure E7-2 Blewett Falls access points.

- **Marinas** - Four private marinas are located on Lake Tillery.
- **Public Boat Ramps** - Lake Tillery has five areas where the public can access the lake. Progress Energy, working with the State of North Carolina, has developed the Lilly's Bridge boating access area, which includes two boat ramps, approximately one mile upstream of the Tillery Dam on the eastern shore. The Swift Island and Stony Mountain boating access areas offer large parking lots and paved boat ramps. The Norwood boating access area, approximately 1.5 miles upstream of the dam on the western shore, offers two paved ramps and a parking area. There is also one informal access on the west shoreline with a primitive one-lane boat ramp.



Swift Island public access boat launch site.

- **Public Fishing Area (PFA)** - The Lilly's Bridge handicapped-accessible fishing pier is located directly across from the Lilly's Bridge Access Area. The area is maintained by the NCWRC.
- **Private Recreation Facilities** - There are over 1,500 homes and seasonal cottages around Lake Tillery. Several private recreation facilities are located at major subdivisions on the lake. These private facilities are located at Woodrun, Holiday Shores, Sugar Loaf Shores, Carolina Forest, and Twin Harbor. Developers of these facilities and, subsequently, the homeowner associations, operate and maintain recreation facilities including boat ramps, dock facilities, swimming/beach areas, and boat storage.



Twin Harbor - private recreation facility.

- **Informal Recreation Areas** - Informal unmarked recreation opportunities are scattered around the lake and frequently occur on Progress Energy land. The major areas consist of those properties leased to NCWRC in the Gamelands Program. The predominant activity at these sites is bank fishing (CP&L 2001).

A description of each of the public access areas at Lake Tillery is presented below.

- **Norwood Access Area** - The Norwood Access Area is located just outside of the town of Norwood, North Carolina on the western shore of Lake Tillery. This site consists of two large parking areas, boat ramp, and dock. There is a 26,000-sq-ft gravel parking area provided adjacent to Lake Shore Drive and a 17,000-sq-ft area adjacent to the boat ramp that has 18 marked parking spaces indicated by concrete curbing. The gravel boat ramp at this site is approximately 34 ft wide. There is also a grassed area used for parking. There is a large, wooden dock adjacent to the boat ramp.
- **Stony Mountain Access Area** - Stony Mountain Access Area is on the western shore of Lake Tillery, directly adjacent to Cook's Marina. There is a 41,500-sq-ft gravel parking area. The main drive into the access area is approximately 300 ft long and provides ample parking along its sides.

There is a single concrete boat ramp (two lanes) approximately 34 ft wide with a wooden dock separating the two lanes of the ramp. While there are no formal amenities at this site, its proximity to Cook's Marina provides restrooms and a marina store.

- **Swift Island Access** - Swift Island, located on the east shore of the lake, is the largest of the public access sites to Lake Tillery. The main parking area measures approximately 390 ft by

370 ft. There are also two concrete handicap parking spaces that are sufficient for two vehicles with trailers. There are four concrete boat lanes at this site. There is a 28-ft-wide double ramp flanked by wooden docks on either side. On the outside of the wooden docks are two single lane concrete boat ramps each approximately 14 ft wide.

- **Lilly's Bridge Access Area** - Lilly's Bridge Access Area consists of two access sites on either side of State Road 1110 (SR). The parking area to the west of SR 1110 consists of a 41,800-sq-ft gravel parking lot. There are two concrete handicap parking spaces sufficient for two vehicles with trailers. There is a double-lane boat ramp separated by a wooden dock and wooden docks on either side of the ramps. The boat ramp lanes are each approximately 14 ft wide. There is also a large grassy lot (approximately 20,000 sq ft) adjacent to the main gravel lot which may be used for parking during times of peak use.

The parking area to the east of SR 1110 includes a handicapped-accessible concrete walkway and wooden fishing platform. There are also two concrete handicap vehicle parking areas measuring 24 ft by 20 ft at this site. The parking area itself measures approximately 115 ft by 50 ft.

- **Informal Access at Tillery Tailrace** - This site is located immediately downstream of Tillery Dam on the east side of the river. It provides river access via a narrow dirt/gravel pathway leading down the embankment from a small gravel parking area. The parking area (on the main road's shoulder) measures approximately 6,000 sq ft with 17 spaces marked by railroad ties. The spaces are primarily for cars or trucks only, a trailer would have to be parked parallel to the road. There is also an informal area (approximately 9,000 sq ft) near the boat ramp (dirt/gravel) used for parking as well. However, maneuverability may limit the number of trailers that can fit. The access road to the dam itself continues through this site to the dam via a gated access.
- **Informal - SR 1740 & SR 1745 (Cedar Creek Bay)** - This is a very small and informal site just off of SR 1740 (Indian Mound Road) outside of Norwood, North Carolina. This site consists of two dirt and grass parking areas on the eastern side of Indian Mountain Road, and one on the western side. The first parking area, just south of the intersection of SR 1745, is approximately 4,000 sq ft. The second parking area is approximately 3,000 sq ft. The parking area on the other side of Indian Mountain Road is approximately 4,000 sq ft. There are no formal recreation amenities and no motorized boat access. There is a small dirt clearing leading to the water, at the first parking area, that could be used for launching a small canoe or other paddleboat. All parking areas are restricted as to the number of trailers that can fit because of limited maneuverability due to their locations just off of the shoulder of Indian Mound Road.
- **Morrow Mountain State Park** - There are two public access sites to Lake Tillery at Morrow Mountain State Park. The Lowder's Ferry Site provides a single, 24-ft-wide boat ramp with an adjacent asphalt parking lot measuring 170 ft by 50 ft. There is a 12-ft L-shaped pier extending from the concrete boat ramp at this site. There is a handicap walkway to the additional parking lot that includes access for fishing. There are several trash receptacles onsite. There are no additional amenities at this site.

The additional parking area at Morrow Mountain State Park is also paved and measures approximately 34,500 sq ft. There are 60 marked spaces (painted lines) for cars and 23 for vehicle and trailer parking in the same lot. There is a handicap walkway to the Lowder's Ferry Site. The boat ramp at this site is concrete and is approximately 36 ft wide with an adjacent turn-around area measuring approximately 4,000 sq ft. There is an L-shaped handicapped accessible fishing platform measuring approximately 120 ft by 11 ft and four picnic tables on site. A rental concession provides rentals for canoes and kayaks.

Private Access Locations

Twin Harbor - Twin Harbor, the southernmost private access area on the eastern shore of Lake Tillery, is a gated campground and RV facility for residents only. The facilities at this site include a double-wide concrete boat ramp with one ramp measuring 15 ft wide and the other measuring 11 ft wide divided by a wooden loading dock. There is a beach with a covered picnic table area and two gravel parking areas. The first, closest to the boat ramps, measures 120 ft by 70 ft and the second, closest to the beach, measures 120 ft by 80 ft. There is also a basketball court near the second parking area. There are no restroom facilities.

- **Holiday Shores** - There are several recreation amenities provided at Holiday Shores, a non-gated residential community on the eastern shore of Lake Tillery. An asphalt boat launch measuring approximately 26 ft wide is dissected by a 40-ft-long pier in the middle. There are four additional piers/boat tie-up docks to the right of the boat launch. There is also a deck and a covered picnic table area. A small gravel area adjacent to the boat piers measures approximately 60 ft by 65 ft and a bare grass area measures 45 ft by 65 ft. A clubhouse onsite provides restroom facilities and other amenities.
- **Woodrun** - Woodrun is a gated residential community with private boat access for residents. There is a concrete ramp approximately 24 ft wide flanked on either side by two 53-ft-long wooden boat-loading docks. The gravel parking lot onsite measures approximately 85 ft by 135 ft on average.

There is a trash dumpster, maintenance shed, and boat storage facility adjacent to the parking area. On the other side of the boat ramp, there is a footbridge, 115 ft long, leading to several boat slips and a path that enters the woods along the shore. There is also a picnic area with tables.

- **Carolina Forest** - Carolina Forest is also a gated residential community with private boat access and boat slips for residents of the community. The main parking area is posted as "Vehicle Parking Only" and measures 300 ft by 45 ft on average. This parking area is most likely used for access to the clubhouse that is adjacent to the boat launch area. There is one handicap parking spot next to the clubhouse.

There is a small 60-ft-by-110-ft gravel parking area closer to the boat launch ramp. The concrete boat ramp measures approximately 18 ft wide. To the right of the boat ramp are slips for approximately 30 boats and a fishing/boat pier. Just in front of the boat ramp is a pull-ahead area measuring approximately 40 ft long by 25 ft wide. There is a clubhouse adjacent to the access area with amenities, including restrooms, provided therein.

7.3.2 Blewett Falls Development

There are a variety of opportunities for recreation at the Blewett Falls Development located as shown on Figure E7-2 and described below.

- **Public Boat Access** - A total of three developed public access areas are located at Blewett Falls Lake. Progress Energy has leased these three access areas (Grassy Islands Access Area, an informal access off SR 1744, and the Pee Dee Public Access Area) to the NCWRC. The Grassy Islands area offers boating access via a paved ramp with a small parking area. The Pee Dee offers boating access, two paved ramps, and a large parking area. It is maintained by NCWRC. The informal access off SR 1744 consists of an unpaved boat ramp.
- **Developed Fishing Area** - Blewett Falls Development provides an accessible fishing pier for persons with disabilities on the downstream side of the powerhouse. This area was built in cooperation with the NCWRC. There are also tailwater bank fishing facilities located below the powerhouse area. A paved parking area and walkway allows for easy access to the site.
- **Informal Recreation Areas** - Informal camping occurs along sections of the undeveloped reservoir shoreline. Most of the camping is concentrated along the shoreline just upstream of the Pee Dee Public Access Area. Just upstream of the dam a public shoreline access site provides informal swimming, bank fishing, and picnicking.
- **Camping** - There is primitive camping allowed at nine shoreline locations, accessible only by boat. Progress Energy has worked with the NCWRC and community officials to develop a plan to allow for some overnight camping on Blewett Falls Lake. There are designated areas available that are accessible only by boat. Camping in areas accessible by vehicles is prohibited.

A detailed description of each access point located at Blewett Falls Lake or just upstream and downstream of the Project is presented below.

- **Blewett Tailwater Access Area** - The Blewett Tailwater Access Area is located at the Blewett powerhouse. The site consists of a large, paved parking area with 48 marked parking spaces, seven of which are handicap accessible. In addition, there is a paved and wooden walkway providing access to the powerhouse tailrace and western shore of the Pee Dee River downstream of the powerhouse.

This site provides pedestrian access to tailrace fishing sites. There are buoys approximately 100 ft downstream of the powerhouse tailrace that restrict boat access upstream. Signage specifies the site as a Wildlife Public Fishing Area and that sport fish restoration efforts are being undertaken by the NCWRC on the Pee Dee River. This area includes a popular handicapped-accessible fishing platform attached to and along the downstream side of the powerhouse.

- **Pee Dee Access Area** - The Pee Dee Access Area is a large boat access site with several boat launches and ample parking. Specifically, the Pee Dee Access Area consists of a 25,300-sq-ft gravel parking area made up of three separate areas, two of which are marked with wooden posts strung together with cable wire. There is a separate paved handicap accessible parking area and two boat ramps. The handicapped-accessible parking area is sufficient to provide parking for two trucks with trailers. Much of the perimeter of the site is specified as “no parking”.

The upstream boat ramp is concrete and measures approximately 32 ft wide with two wooden docks. The downstream boat ramp is concrete and approximately 28 ft wide with no dock. There are no other amenities at this site.

Signage indicates this site is a Canoe Trail Access point for the Yadkin-Pee Dee River. In addition, sport fish restoration efforts are indicated, as are special black bass regulations. Signage also indicates that swimming, sunbathing, and fishing from boat docks at this site is strictly prohibited.

- **Grassy Islands Access Area** - Grassy Islands is a very basic access site with one boat ramp (27 ft wide) and approximately 12,000 sq ft of open space for parking.
- **Blewett Falls Canoe Portage** - This site is directly adjacent to Blewett Falls Dam on the east shoreline and serves as a canoe portage route for the reservoir. This site consists of a circular paved parking area approximately 5,500 sq ft in size. There is also limited informal parking along the dirt road that leads to the canoe portage trail.

There is a dirt trail that leads from the lake to the paved parking area. A chain link and barbwire fence prohibits access to the dam and lake with the exception of a small open gate on the canoe portage trail. There are no other formal recreation facilities at this site.

- **U.S. Highway 74 (Downstream of Dam)** - This site located just downstream of U.S. Highway 74 is 2.5 miles downstream of Blewett Falls Dam. A dirt road off of the highway leads downhill to the shores of the Pee Dee River. The parking area is a gravel lot approximately 38,400 sq ft in size. There is a single-lane, concrete boat ramp with one dock. Although the boat ramp is 37 ft wide and actually consists of two lanes, there is signage blocking the left lane, creating a single boat ramp.

Signage indicates this site is a Canoe Trail Access point for the Yadkin-Pee Dee River. In addition, sportfish restoration efforts undertaken by the NCWRC are posted. Signage also indicates that swimming, sunbathing, and fishing from the boat dock at this site is strictly prohibited.

- **Informal Tailwater Access Area** - The site located downstream of the Blewett Falls Dam on the eastern shore is informal with a rough, dirt road leading to an informal parking area on the banks of the river. There are two access ramps, one being very narrow and serving primarily as carry-in access, while the other, adjacent to the main parking area, is wide and includes a concrete section (12 ft wide) as well as a dirt section (24 ft wide). There are also foot trails leading directly to the water.

Parking is available at three gravel and dirt areas. There is a level 88-ft-by-111-ft gravel parking area adjacent to the river, a 48-ft-by-162-ft gravel parking area leading from the water to the dirt access road, and a 20-ft-by-85-ft grass and dirt parking area just off of the dirt access road.

Signage indicates this site is a “Canoe Trail Access” point for the Yadkin-Pee Dee River. In addition, sport fishing restoration efforts undertaken by the NCWRC are posted. Signage also indicates that camping, picnicking, and swimming is strictly prohibited at this access site.

- **Informal Access SR 1744 Site** - This informal site consists of a rough, dirt road leading to this site which primarily consists of an unpaved boat ramp, trash receptacles, and fire rings. The recreation site measures approximately 30,000 sq ft; however, the prevalence of trees and other vegetation precludes parking for most of the area. The majority of parking appears to occur along either side of SR 1744 adjacent to the access road to this site. The presence of fire rings would indicate nighttime use or overnight camping activities.
- **Highway 109** - This site, located upstream of the Blewett Falls Development, is relatively informal with an unpaved parking area. It includes a one-lane concrete boat ramp, a wooden boat dock with metal grate for up to three boats. The area has two rectangular open, grassy parking areas that can accommodate up to 57 cars/trucks or 25 boat trailers. There are no visibly marked spaces or handicap parking.

7.3.3 National Wild and Scenic Rivers System

The National Wild and Scenic Rivers Act of 1968 (16 USC 1271) states that Wild or Scenic rivers must “possess outstandingly remarkable scenic, cultural, or other similar values.” Further, the Act requires that they “shall be preserved in a free-flowing condition, and that they and their immediate environments shall be protected for the benefit and enjoyment of present and future generations.” Five rivers in North Carolina have been designated into the national system: the New River (26.5 miles), the Horsepasture River (4.5 miles), the Lumber River (81 miles), all of the Chattooga River and Wilson Creek (23.3 miles) (NC SCORP 2005). The Pee Dee River is not designated as a Wild and Scenic River.

The Pee Dee River below Lake Tillery has been rated by the NPS as having an ORV designation for recreation. The river was designated due to its recreational opportunities that are, or have the potential to be, popular enough to attract visitors from throughout or beyond the region or are unique or rare within the region (NPS 2001).

7.3.4 National, State, and Regional Trails System

In 1973, the North Carolina General Assembly ratified the North Carolina Trails System. (G.S. 113A, Article 6). The act states:

...in order to provide for the ever increasing outdoor recreation needs of an expanded population and in order to promote public access to, travel within, and enjoyment and appreciation of the outdoor, natural remote areas of the state, trails should be established in natural, scenic areas of the state, and in and near urban areas.

...the purpose of this article is to provide the means for attaining these objectives by instituting a state system of scenic and recreation trails, coordinated with and complemented by existing and future local trail segments or systems, and by prescribing the methods by which, and standards according to which, components may be added to the State Trails System.

The State Trails System is composed of the following types of trails:

- **State Recreation Trails** - Trails that provide for a variety of outdoor recreation uses in or near the urban areas of North Carolina. They may include trails for hiker travel, horseback riding, non-motorized bicycles, non-motorized watercraft, and two-wheel and four-wheel drive motorized vehicles (off-road vehicles).
- **State Scenic Trails** - Trails that are longer in distance and located to provide maximum potential for the appreciation of natural areas and for the appreciation and enjoyment of significant scenic, historic, ecological, geologic or cultural areas through which such trails may pass.
- **Connecting/Side Trails** - Trails that provide additional points of public access to State Recreation or State Scenic Trails or provide connections between these trails.

There are system trails adjacent to the Project at the Morrow Mountain State Park as well as nearby at the Uwharrie National Forest and the Pee Dee National Wildlife Refuge.

7.3.5 Wilderness Act

The Wilderness Act of 1964 (16 U.S. Code 1131) established a National Wilderness Preservation System. There are currently 12 designated wilderness areas in North Carolina, consisting of 111,342 acres. Eleven of these are administered by the USFS. They are: Ellicott Rock, Joyce Kilmer-Slickrock, and Southern Nantahala, located in the Nantahala National Forest; Linville Gorge, Middle Prong, and Shining Rock, located in the Pisgah National Forest; Birkhead Mountains, located in the Uwharrie National Forest; and Catfish Lake South, Pocosin, Pond Pine and Sheep Ridge, located in the Croatan National Forest. The USFWS administers the remaining wilderness area, Swanquarter. (NC SCORP 2005)

There are no designated wilderness areas within the Project Boundary. The Birkhead Mountains are located within the Uwharrie National Forest. The Birkhead Mountains Wilderness was established by the 1984 North Carolina Wilderness Act. The Wilderness includes 5,160 acres at the northern end of the Uwharrie Mountains, and is not affected by the Project. (Uwharrie National Forest North Carolina [UNCA] 2005)

7.4 Recreation Use Levels in the Project Area

Progress Energy conducted a recreation use assessment in 2004 and 2005 in accordance with a study plan developed in the Land Use and Recreation RWG. The purpose of the recreation use assessment was to document current use of recreation resources at the Project as well as to provide relevant information to assess likely future use at the Project. A copy of the study plan is located in Appendix A of this License Application. The specific areas of study included recreation use, carrying capacity and facility condition, public and private access, canoe portage adequacy, tailrace fishing success, and impacts from recreational use.

Recreational data was collected over a one-year period, from April 2004 to March 2005. Recreation use at the Project was documented through a combination of survey methods that addressed both visitor and resident use of Lake Tillery and Blewett Falls Lake. These included spot counts at public and private access points, mailed surveys to waterfront residents of the lakes, survey questionnaires at recreation facilities, and observations by Progress Energy of use immediately downstream of Project facilities. Progress Energy also conducted an inventory of public recreational facilities located at the Project and an assessment of the existing condition of each facility.

This section presents an overview of the results of the surveys and information gathering efforts. Detailed descriptions and assessments of the data collected are provided in Appendix E7-1.

Recreation Use

Lake Tillery and Blewett Falls Lake differ in a number of ways related to character and setting. Lake Tillery is a larger and more developed lake, with approximately 54 percent of the shoreline considered as having residential or commercial development. Blewett Falls Lake is considerably smaller and shallower than Lake Tillery with very little development. There are only three waterfront leases at the lake, and no commercial development. Both lakes have public access on both east and west shorelines.

According to the results of the visitor survey, the majority of those people visiting the lakes had visited the lakes previously with Lake Tillery receiving over two times the number of visitors as Blewett Falls. Visitor use estimates based on survey results are summarized in Tables E7-6 and E7-7. The overwhelming majority of visitors (97 percent) to the lakes were from North Carolina, with a small percentage from South Carolina and from other states (Figures E7-3 and E7-4). Visitors were primarily repeat visitors and day trippers with an average group size of three persons for both lakes. In 2004 to 2005, visitor's expenses were spent primarily in the areas of gas, food, and lodging. The highest visitation months at both lakes were April, May, June, and July.

At Lake Tillery, as would be expected, residents reported spending the highest number of days at the lake during the high season months of May through August. For the year, a majority of respondents (n=769; 38 percent) spent 22 to 31 days per month at Lake Tillery, followed by 28 percent spending 1 to 7 days (n=570) per month, and 14 percent of respondents overall spending 8 to 14 days per month at the lake.

Table E7-6 Lake Tillery estimated visitor use 2004 to 2005.

| Month | Norwood Access Area | Stony Mountain Access | Swift Island Access | Lilly's Bridge Access | Informal SR 1740 & 1745 | Morrow Mountain State Park | Tillery Canoe Portage | Twin Harbor* | Holiday Shores* | Woodrun* | Carolina Forest* | Informal Tailwater Access Area |
|--------------|---------------------|-----------------------|---------------------|-----------------------|-------------------------|----------------------------|-----------------------|--------------|-----------------|--------------|------------------|--------------------------------|
| Jan-05 | 130 | 227 | 156 | 149 | 11 | 227 | 0 | 0 | 21 | 84 | 42 | 42 |
| Feb-05 | 162 | 29 | 297 | 166 | 14 | 92 | 13 | 8 | 0 | 29 | 21 | 89 |
| Mar-05 | 334 | 145 | 652 | 242 | 28 | 358 | 5 | 48 | 75 | 37 | 84 | 129 |
| Apr-04 | 638 | 1,237 | 2,419 | 311 | 145 | 1,309 | 100 | 507 | 178 | 293 | 298 | 209 |
| May-04 | 616 | 390 | 3,120 | 441 | 51 | 1,242 | 236 | 658 | 165 | 297 | 558 | 286 |
| Jun-04 | 509 | 912 | 2,241 | 651 | 62 | 1,191 | 115 | 792 | 188 | 439 | 407 | 279 |
| Jul-04 | 802 | 718 | 2,634 | 642 | 182 | 1,259 | 52 | 1,219 | 224 | 379 | 562 | 226 |
| Aug-04 | 419 | 1,017 | 1,097 | 288 | 32 | 979 | 54 | 343 | 91 | 292 | 255 | 199 |
| Sep-04 | 337 | 209 | 713 | 225 | 43 | 555 | 61 | 193 | 31 | 113 | 81 | 132 |
| Oct-04 | 416 | 170 | 1,485 | 388 | 55 | 925 | 44 | 139 | 37 | 109 | 127 | 182 |
| Nov-04 | 234 | 115 | 654 | 327 | 34 | 1,121 | 28 | 63 | 38 | 21 | 66 | 267 |
| Dec-04 | 137 | 43 | 635 | 165 | 0 | 127 | 20 | 59 | 8 | 11 | 21 | 136 |
| Total | 4,734 | 5,212 | 16,103 | 3,995 | 657 | 9,385 | 728 | 4,029 | 1,056 | 2,104 | 2,522 | 2,176 |

*Private sites utilized by residents.

Table E7-7 Blewett Falls Lake estimated visitor use 2004 to 2005.

| Month | Blewett Falls Tailwater Access Area | Pee Dee Access Area | Grassy Island Access Area | Blewett Falls Canoe Portage | U.S. Highway 74 Site | Informal Tailrace Access | Informal SR 1744 Site | Highway 109 |
|--------------|-------------------------------------|---------------------|---------------------------|-----------------------------|----------------------|--------------------------|-----------------------|-------------|
| Jan-05 | 34 | 49 | 57 | 10 | 53 | 11 | 0 | 17 |
| Feb-05 | 49 | 51 | 20 | 8 | 25 | 11 | 29 | 0 |
| Mar-05 | 148 | 253 | 85 | 19 | 67 | 142 | 21 | 21 |
| Apr-04 | 390 | 1,847 | 292 | 218 | 144 | 323 | 610 | 65 |
| May-04 | 467 | 1,993 | 266 | 197 | 158 | 353 | 664 | 58 |
| Jun-04 | 475 | 1,034 | 96 | 164 | 82 | 162 | 262 | 88 |
| Jul-04 | 359 | 1,639 | 178 | 100 | 59 | 113 | 525 | 141 |
| Aug-04 | 329 | 993 | 106 | 109 | 90 | 98 | 96 | 32 |
| Sep-04 | 174 | 290 | 42 | 108 | 40 | 116 | 50 | 29 |
| Oct-04 | 245 | 339 | 69 | 30 | 63 | 111 | 50 | 14 |
| Nov-04 | 123 | 134 | 133 | 45 | 148 | 12 | 16 | 5 |
| Dec-04 | 48 | 113 | 67 | 15 | 51 | 37 | 0 | 39 |
| Total | 2,840 | 8,733 | 1,410 | 1,024 | 979 | 1,490 | 2,324 | 509 |

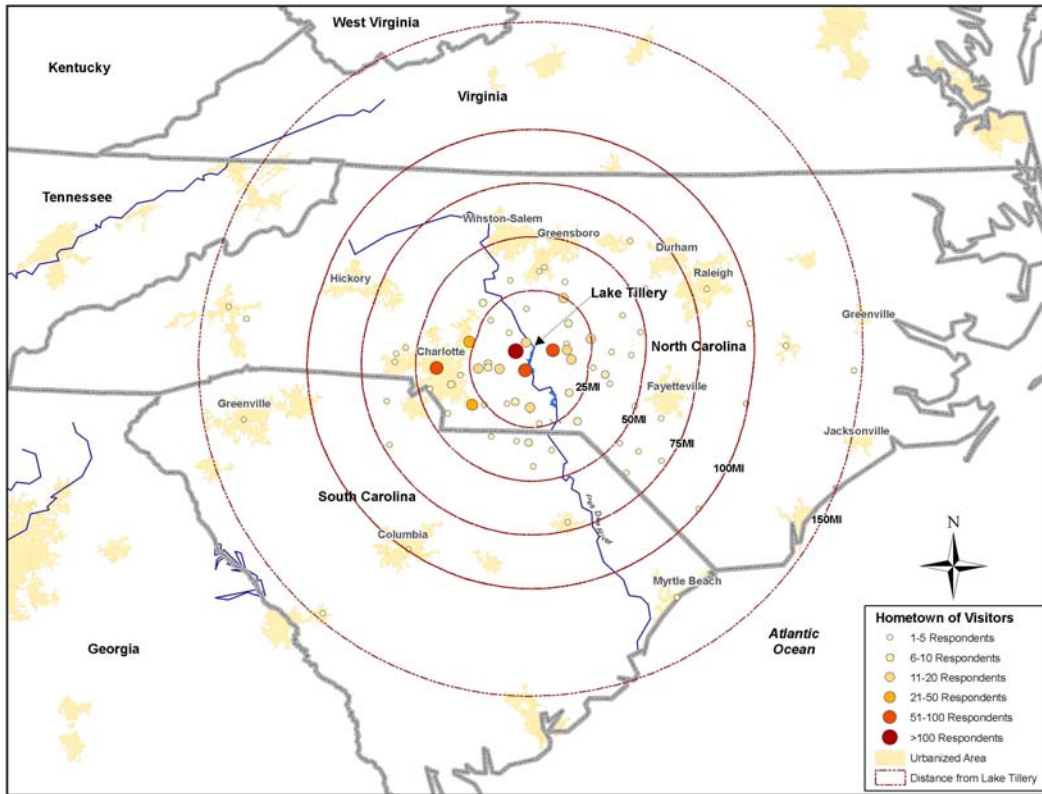


Figure E7-3 Concentration of Lake Tillery visitors by home towns.

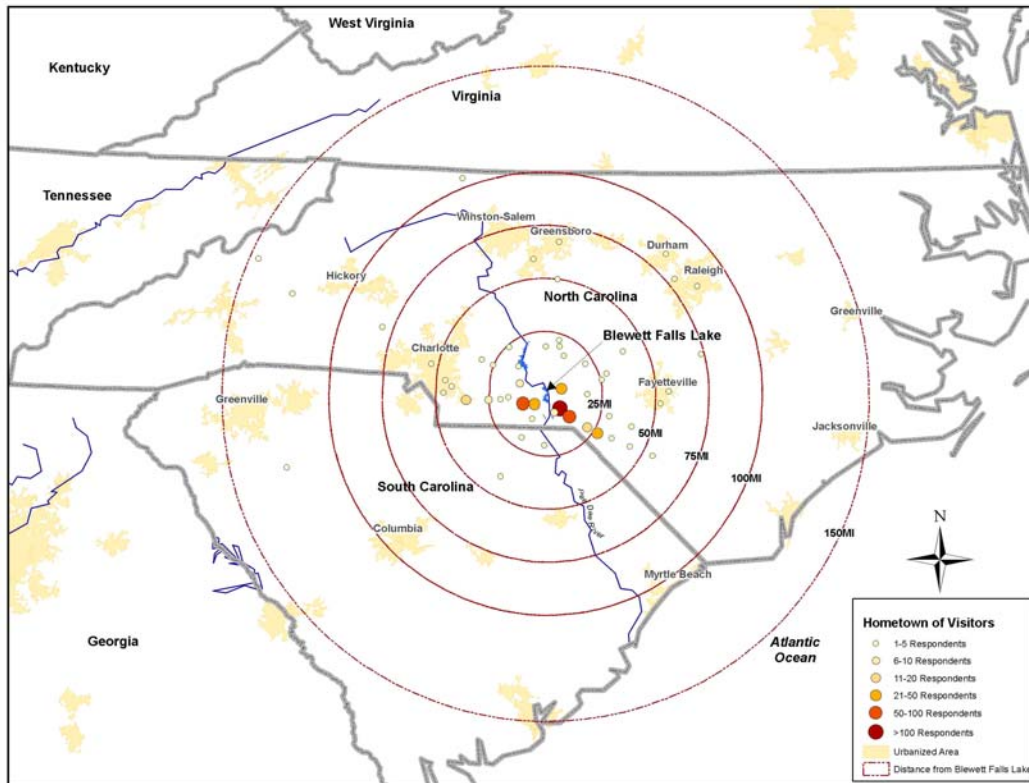


Figure E7-4 Concentration of Blewett Falls Lake visitors by home towns.

Due to the small number of responses by residents at Blewett Falls Lake (n=20), it was difficult to ascertain the length of time spent at the lake throughout the year. There was a slight lean, however, towards residents spending most of their time at the lake during the high season months, as was the case with the residents of Lake Tillery.

Recreation Activities

Three activities were prominent for visitors at both lakes as can be seen on Tables E7-8 and E7-9: boat fishing, bank fishing and motor boating. With respect to night time activities, in general, about half of visitors to Lake Tillery and Blewett Falls Lake participated in some form of night time activity.

Table E7-8 Recreational activities reported by visitors at Lake Tillery.¹

| Survey Location | Activity | | | | | | | | | | | | | | |
|---------------------------------|---------------|--------------|--------------|------------|----------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------------|------------|------------------|
| | Motor boating | Boat fishing | Bank fishing | Canoeing | River canoeing | Hiking | Swimming | Jet skiing | Water skiing | Camping | Picnicking | Sun bathing | Sailing | Hunting | Wildlife viewing |
| Norwood Access Area | 45 | 95 | 18 | 0 | 1 | 3 | 28 | 21 | 23 | 6 | 11 | 9 | 2 | 7 | 4 |
| Stony Mtn. Access | 22 | 41 | 49 | 0 | 1 | 2 | 17 | 6 | 13 | 15 | 7 | 11 | 1 | 5 | 1 |
| Swift Island Access | 128 | 205 | 40 | 3 | 1 | 4 | 101 | 46 | 78 | 28 | 27 | 50 | 0 | 14 | 8 |
| Lilly's Bridge Access | 77 | 139 | 65 | 2 | 0 | 0 | 66 | 36 | 39 | 14 | 24 | 28 | 2 | 2 | 7 |
| Informal SR 1740 & SR 1745 | 4 | 9 | 39 | 1 | 0 | 2 | 6 | 0 | 1 | 6 | 5 | 2 | 0 | 3 | 4 |
| Morrow Mountain State Park | 37 | 89 | 157 | 61 | 15 | 125 | 68 | 10 | 9 | 127 | 117 | 44 | 0 | 5 | 105 |
| Tillery Canoe Portage | 5 | 8 | 378 | 0 | 0 | 0 | 11 | 1 | 1 | 10 | 9 | 5 | 0 | 2 | 1 |
| Woodrun | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Informal Tailwater Access Area | 11 | 32 | 84 | 2 | 2 | 0 | 8 | 3 | 5 | 8 | 6 | 5 | 0 | 5 | 7 |
| Total N | 329 | 619 | 490 | 69 | 20 | 136 | 305 | 123 | 169 | 214 | 206 | 154 | 5 | 43 | 137 |
| % of Population (N=1209) | 27.2 | 51.2 | 40.5 | 5.7 | 1.7 | 11.2 | 25.2 | 10.2 | 14.0 | 17.7 | 17.0 | 12.7 | 0.4 | 3.6 | 11.3 |

¹ April 2004 to March 2005.

Table E7-9 Recreational activities reported by visitors at Blewett Falls Lake.¹

| Survey Location | Activity | | | | | | | | | | | | | | |
|--|---------------|--------------|--------------|------------|----------------|------------|-------------|------------|--------------|-------------|-------------|-------------|------------|-------------|------------------|
| | Motor boating | Boat fishing | Bank fishing | Canoeing | River canoeing | Hiking | Swimming | Jet skiing | Water skiing | Camping | Picnicking | Sun bathing | Sailing | Hunting | Wildlife viewing |
| Blewett Tailwater Access Area | 21 | 57 | 123 | 2 | 2 | 2 | 15 | 5 | 6 | 20 | 11 | 8 | 0 | 16 | 7 |
| Pee Dee Access Area | 72 | 144 | 31 | 0 | 0 | 1 | 42 | 22 | 41 | 54 | 20 | 11 | 0 | 11 | 7 |
| Grassy Islands Access Area | 21 | 54 | 24 | 3 | 5 | 5 | 13 | 1 | 5 | 24 | 6 | 7 | 0 | 18 | 9 |
| Blewett Falls Canoe Portage | 14 | 25 | 49 | 0 | 0 | 6 | 25 | 9 | 5 | 16 | 21 | 8 | 0 | 3 | 12 |
| U.S. Highway 74 Site | 8 | 32 | 26 | 2 | 5 | 5 | 6 | 4 | 4 | 7 | 5 | 2 | 0 | 8 | 6 |
| Informal Tailrace Access | 16 | 56 | 74 | 1 | 3 | 5 | 17 | 5 | 5 | 15 | 8 | 8 | 0 | 6 | 6 |
| Informal SR 1744 Site | 31 | 45 | 56 | 3 | 2 | 7 | 37 | 13 | 13 | 40 | 33 | 19 | 0 | 10 | 15 |
| Highway 109 | 4 | 12 | 11 | 0 | 1 | 0 | 1 | 1 | 1 | 4 | 0 | 1 | 0 | 3 | 2 |
| Total N | 187 | 425 | 394 | 11 | 18 | 31 | 156 | 60 | 80 | 180 | 104 | 64 | 0 | 75 | 64 |
| % of Population Sampled (N=711) | 26.3 | 59.8 | 55.4 | 1.5 | 2.5 | 4.4 | 21.9 | 8.4 | 11.3 | 25.3 | 14.6 | 9.0 | 0.0 | 10.5 | 9.0 |

¹ April 2004 to March 2005.

The most frequently mentioned activities participated in by residents of Lake Tillery were: 1) motor boating; 2) wildlife viewing; 3) swimming; 4) bank fishing, sunbathing; 5) jet skiing; 6) boat fishing; 7) waterskiing; and 8) picnicking. Overall, the most frequent activity of Lake Tillery residents was wildlife viewing, with respondents reporting an annual overall average of eight days per month engaged in this activity (Table E7-10). Motor boating was the next most frequent activity with respondents reporting an annual average of five days of motor boating per month.

Table E7-10 Lake Tillery resident recreation participation by month.

| Survey Period | Motor boating | Boat Fishing | Bank Fishing | Lake Canoeing | River Canoeing | Hiking | Swimming | Jet Skiing | Water Skiing | Camping | Picnicking | Sunbathing | Sailing | Hunting | Wildlife viewing | Other activities |
|----------------|---------------|--------------|--------------|---------------|----------------|------------|-------------|-------------|--------------|------------|-------------|-------------|------------|------------|------------------|------------------|
| January | 35 | 27 | 30 | 5 | 4 | 22 | 6 | 5 | 6 | 4 | 6 | 23 | 0 | 10 | 63 | 25 |
| February | 37 | 21 | 27 | 8 | 6 | 26 | 4 | 7 | 2 | 2 | 7 | 20 | 1 | 4 | 66 | 21 |
| March | 57 | 31 | 58 | 9 | 2 | 12 | 6 | 9 | 5 | 3 | 13 | 31 | 0 | 1 | 56 | 17 |
| May | 163 | 69 | 95 | 15 | 2 | 11 | 126 | 90 | 59 | 2 | 35 | 116 | 1 | 2 | 94 | 16 |
| June | 148 | 70 | 100 | 22 | 4 | 17 | 127 | 96 | 63 | 5 | 42 | 102 | 6 | 4 | 79 | 15 |
| July | 168 | 73 | 97 | 19 | 4 | 16 | 153 | 104 | 81 | 3 | 39 | 121 | 10 | 3 | 97 | 15 |
| August | 154 | 59 | 82 | 24 | 5 | 17 | 126 | 85 | 68 | 3 | 27 | 97 | 3 | 0 | 80 | 6 |
| September | 171 | 59 | 86 | 26 | 7 | 19 | 125 | 92 | 66 | 3 | 36 | 97 | 7 | 9 | 85 | 14 |
| October | 115 | 50 | 59 | 13 | 1 | 15 | 47 | 58 | 29 | 3 | 24 | 67 | 3 | 3 | 69 | 12 |
| November | 75 | 36 | 51 | 13 | 5 | 16 | 7 | 14 | 8 | 1 | 12 | 20 | 2 | 9 | 68 | 14 |
| December | 56 | 41 | 42 | 17 | 5 | 23 | 10 | 13 | 8 | 1 | 17 | 28 | 4 | 14 | 87 | 19 |
| Total | 1,179 | 536 | 727 | 171 | 45 | 194 | 737 | 573 | 395 | 30 | 258 | 722 | 37 | 59 | 844 | 174 |
| Percent | 54.2 | 24.6 | 33.4 | 7.9 | 2.1 | 8.9 | 33.9 | 26.3 | 18.2 | 1.4 | 11.9 | 33.2 | 1.7 | 2.7 | 38.8 | 7.9 |

The most frequently mentioned activities participated in by residents at Blewett Falls Lake were wildlife viewing, bank fishing, picnicking, boat fishing, hiking, motor boating, lake canoeing, and river canoeing. Overall, Blewett Falls Lake residents spent a majority of their time wildlife viewing as well, with respondents reporting an overall average of six days per month engaged in this activity (Table E7-11). Respondents spent an average of five days per month doing “other” activities, which included “living on the Lake and enjoying the Lake everyday.” Bank fishing, picnicking, motor boating, and hiking were identified as the next most frequent activities with respondents reporting an average of two days per month participating in these activities.

Table E7-11 Blewett Falls Lake resident recreation participation by month.

| Survey period | Motor boating | Boat Fishing | Bank Fishing | Lake Canoeing | River Canoeing | Hiking | Swimming | Jet Skiing | Water Skiing | Camping | Picnicking | Sunbathing | Wildlife Viewing | Other Activities |
|----------------|---------------|--------------|--------------|---------------|----------------|-------------|------------|------------|--------------|-------------|-------------|-------------|------------------|------------------|
| January | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| February | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 |
| March | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| May | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 2 | 1 | 2 | 0 |
| June | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| July | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| August | 1 | 1 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 |
| September | 1 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 7 | 10 | 11 | 7 | 6 | 9 | 2 | 2 | 0 | 4 | 11 | 3 | 17 | 4 |
| Percent | 33.3 | 47.6 | 52.4 | 33.3 | 28.6 | 42.9 | 9.5 | 9.5 | 0.0 | 19.0 | 52.4 | 14.3 | 81.0 | 19.0 |

Conditions Interfering with Recreation Experiences

Overall, the majority of surveyed visitors to Lake Tillery (67 percent) did not experience conditions that interfered with their recreation experience. Unlike Lake Tillery, the majority of respondents at Blewett Falls Lake (60 percent) experienced some conditions that interfered with their recreation experience.

Respondents were asked to express their level of concern about potential issues including crowding, limited access, litter, and water levels.

■ **Crowding**

Crowding was not an issue for most people at either of the lakes. The majority of the visitors surveyed did not have a concern with crowded conditions at Lake Tillery, and of those that did express a level of concern, 62 percent expressed a low level of concern, 26 percent expressed a medium level of concern, and 12 percent expressed a high level of concern for crowded conditions.

When assessing level of concern for crowded conditions by access area at Lake Tillery, of those respondents with some level of concern (20 percent; n=242), approximately half of the respondents from Norwood Access (n=12) and half of the respondents from Swift Island Access (n=31) had a

medium to high level of concern for crowded conditions. However, based on the total number of respondents, there is little concern for crowding at these sites.

Also at Blewett Falls, the majority did not express concern about crowded conditions; and of those respondents that did address the question, 69 percent had a low level of concern for crowded conditions, followed by 23 percent responding with a medium level of concern and 8 percent having a high level of concern for Blewett Falls Lake.

When assessing level of concern for crowded conditions by access location for Blewett Falls Lake, of those respondents with some level of concern (27 percent; n=188), approximately 40 percent of respondents from the Informal SR 1744 Site (n=13) and one third of the respondents from Informal Tailrace Access (n=11) and Grassy Islands Access Areas (n=7) had a medium to high level of concern for crowded conditions. However, based on the total number of respondents, there seems to be little concern for crowding at these sites, with nearly 70 percent overall expressing a low level of concern.

■ **Limited Access**

There was also little concern from visitors and residents alike about access to both lakes. For those that expressed some level of concern regarding limited access, the level of concern was higher at Blewett Falls Lake than at Lake Tillery. Over half of the respondents expressed a medium to high level of concern over access at Blewett Falls Canoe Portage (67 percent), Informal SR 1744 Site (65 percent), Informal Tailrace Access (60 percent), and Blewett Tailwater Access Area (53 percent). Additionally, half of the respondents expressed medium to high concern at Grassy Islands Access Area, with 33 percent expressing medium to high concern at Pee Dee Access Area.

■ **Trash / Litter Disposal**

For Lake Tillery, the majority of respondents did not express a level of concern for improper disposal of litter or trash (80 percent). Of those that did express a level of concern, 40 percent had a low level of concern, followed by 35 percent having a high level of concern regarding improper disposal of trash. Visitor responses addressing some level of concern for improper disposal of trash and litter did vary by access location. Of those that addressed some level of concern regarding improper disposal of litter or trash (20 percent; n=289), the majority had medium to high level of concern. In general, the primary areas reported as areas of concern include the Norwood Access Area, Stony Mountain Access Area, Swift Island Access, Tillery Access and Tillery Canoe Portage Areas, and the Informal Tailwater Access Area.

For Blewett Falls Lake, the majority of respondents did not express concern for improper disposal of litter or trash (65 percent). However, with respect to specific access areas, of those that did respond to the level of concern regarding improper disposal of litter or trash (35 percent; n=250), the majority (63 percent) had a medium to high level of concern.

■ **Water Levels**

Eight-two percent of survey respondents from Lake Tillery did not express a level of concern for lake water levels. Of those that did, respondents were split between low and medium to high levels

of concern. The highest levels of concern for water levels came from respondents surveyed at Norwood, Swift Island, and the Informal Tailwater Access Area.

Visitors expressed more of a concern about lake levels at Blewett Falls Lake than at Lake Tillery. The typical daily operations associated with the Blewett Falls Development (see Exhibit B) can result in a change in water levels of up to 3 ft. About half of respondents from Blewett Falls Lake locations did not express a level of concern for lake water levels. However, of those that did, respondents were split between low to medium and high levels of concern. Under the current operations, there can be some difficulty associated with boat launching at the Grassy Islands access point under low-flow and low lake conditions, especially when combined with flashboard maintenance requiring the surface water of the lake to be lowered. Several respondents noted that they would like to be able to have additional information from Progress Energy on changing water levels.

Conflicts / Concerns

Recreationists at both lakes were asked to “identify any user conflicts [they had] today with other recreational users.” In addition to conflicts with recreation users, respondents mentioned areas of concern with other conditions related to facilities. The primary areas of conflict at Tillery were focused on motor boaters (behavior, noise, and numbers), jet skiers (age of users, irresponsible behavior, and noise), and noise from unruly campers. Other areas included the environment and recreation management issues (time of park closures, provision of amenities such as bait, port-a-johns, trash cans). In general, visitors to Blewett Falls Lake identified primary user conflicts as unruly behavior of other recreationists, conflicts with motorized boaters, and conflicts with jet skis. In addition to conflicts, respondents raised other issues affecting their recreational experience. For a summary of the types of comments, see Tables 24 and 25 of Appendix E7-2.

7.5 Recreation Facilities

Lake Tillery Facilities Condition Assessment

There are seven access points to Lake Tillery for the public at the Project. These include Norwood, Stony Mountain, Swift Island, Lily’s Bridge, Informal 1740 & 1745, Tillery Canoe Portage, and Morrow Mountain State park. This is also an informal access area just downstream of the dam (Informal Tailwater Access Area). Visitors were asked to comment on their opinions on the acceptability or adequacy of the condition of each facility (Table E7-12). Generally, the majority of visitors (greater than 90 percent) feel that the condition of boat ramps, parking lots, marinas, and signs are acceptable to very good. Presently, there are no toilet facilities at any of the public access areas, with the exception of Morrow Mountain State Park. As a result, several respondents (17 to 50 percent) from various access areas felt the toilet facilities were inadequate. Eighty-eight percent of respondents felt that fishing piers were acceptable to very good. Norwood, Stony Mountain, Informal SR 1740 & 1745, had some respondents who felt that the condition of the fishing piers was not adequate (27 to 43 percent). Signage was generally acceptable to very good, with three access areas (Informal SR 1740 & 1745, Tillery Canoe Portage) with responses of greater than 10 percent of the population responding that signage was not adequate.

Table E7-12 Lake Tillery visitor response to facility conditions.

| Lake Tillery Survey Locations | | Condition of boat ramps/docks | Condition of parking lot | Condition of marinas | Condition of campgrounds | Condition of toilets | Condition of fishing piers | Condition of signage |
|--------------------------------|---------------|-------------------------------|--------------------------|----------------------|--------------------------|----------------------|----------------------------|----------------------|
| Norwood Access Area | % A-VG | 90.6 | 97 | 90.5 | 97 | 63 | 73 | 96 |
| | % NAD | 9.4 | 3 | 9.5 | 3 | 37 | 27 | 4 |
| Stony Mountain Access | % A-VG | 100 | 98.5 | 96 | 83 | 59 | 61 | 92 |
| | % NAD | 0 | 1.5 | 4 | 17 | 41 | 39 | 8 |
| Swift Island Access Area | % A-VG | 97 | 97 | 91 | 89 | 63 | 92 | 90 |
| | % NAD | 3 | 3 | 9 | 11 | 37 | 8 | 10 |
| Lily's Bridge Access | % A-VG | 99.5 | 100 | 100 | 100 | 50 | 90 | 93 |
| | % NAD | 0.5 | 0 | 0 | 0 | 50 | 10 | 7 |
| Informal SR 1740 & SR 1745 | % A-VG | 100 | 88 | 100 | 100 | 73 | 57 | 80 |
| | % NAD | 0 | 12 | 0 | 0 | 27 | 43 | 20 |
| Morrow Mountain State Park | % A-VG | 96 | 98 | 95 | 98 | 93 | 96 | 98 |
| | % NAD | 4 | 2 | 5 | 2 | 7 | 4 | 2 |
| Tillery Canoe Portage | % A-VG | 93 | 100 | 90 | 100 | 83 | 83 | 82 |
| | % NAD | 7 | 0 | 10 | 0 | 17 | 17 | 18 |
| Informal Tailwater Access Area | % A-VG | 80 | 93 | 91 | 96 | 74 | 91 | 93 |
| | % NAD | 20 | 7 | 9 | 4 | 26 | 9 | 7 |
| Total | % A-VG | 96 | 98 | 94 | 95 | 75 | 88 | 94 |
| | % NAD | 4 | 2 | 6 | 5 | 25 | 12 | 6 |

Note: Acceptable / Very Good=A-VG; Not Adequate=NAD.

Blewett Falls Facility Condition Assessment

There are five access sites for public use at Blewett Falls Lake. These are Blewett Falls, Pee Dee, Grassy Islands, Blewett Falls Canoe Portage, and Informal SR 1744 Access areas. There is also an

informal access area below the Blewett Falls Dam on the east shore of the river (Informal Tailrace Access). Generally, the majority of visitors to Blewett Falls Lake (89 percent or higher) felt that boat ramps and docks, parking lots, and signage were acceptable to very good. The exceptions appear to be respondents views on toilets and campgrounds (Table E7-13). Two access areas had greater than 10 percent of visitors responding that the condition of boat ramps/docks was not adequate, Blewett Falls Canoe Portage (17 percent) and the Informal Tailrace Access at 27 percent. The condition of parking lots were generally acceptable, with again, two access areas demonstrating greater than 10 percent of the respondents identifying parking lots as not adequate. Blewett Falls Canoe Portage (21 percent) and the Informal Tailrace Access (27 percent) had the largest number of respondents who considered parking lots not acceptable. Respondent’s view of the condition of camping areas differed depending on each access site. The greatest number of respondents considering campgrounds not adequate occurred at the Blewett Falls Canoe Portage (52 percent), the Grassy Islands Access (50 percent), and the Informal SR 1744 access area. With respect to toilet facilities it appears that 50 percent or greater of those surveyed at Blewett Access Area, Pee Dee Access Area, Grassy Island, Blewett Falls Canoe Portage, and the Informal SR 1744 site felt that facilities were not adequate. There were some respondents at most of the access areas that felt fishing piers were not adequate. Signage was generally acceptable to very good for over 90 percent or more of the population surveyed at Blewett, Pee Dee, and Grassy Island. Approximately 15 to 20 percent of respondents felt signage was not adequate at Blewett Falls Canoe Portage, the Informal Tailrace Access, and the Informal SR 1744 Site.

Table E7-13 Blewett Falls Lake visitor response to facility conditions.

| Blewett Falls Lake | | Condition of boat ramps/docks | Condition of parking lot | Condition of campgrounds | Condition of toilets | Condition of fishing piers | Condition of signage |
|-----------------------------|---------------|-------------------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------------|-------------------------|
| Blewett Access Area | % A-VG | 92 | 96 | 85 | 45 | 94 | 94 |
| | % NAD | 8 | 4 | 15 | 55 | 6 | 6 |
| Pee Dee Access Area | % A-VG | 90 | 100 | 71 | 47 | 64 | 91 |
| | % NAD | 10 | 0 | 29 | 53 | 36 | 9 |
| Grassy Island Access Area | % A-VG | 95 | 100 | 50 | 47 | 54 | 91 |
| | % NAD | 5 | 0 | 50 | 53 | 46 | 9 |
| Blewett Falls Canoe Portage | % A-VG | 83 | 79 | 48 | 50 | 55 | 86 |
| | % NAD | 17 | 21 | 52 | 50 | 45 | 14 |
| U.S. Highway 74 | % A-VG | 95 | 98 | 70 | 73 | 87 | 100 |
| | % NAD | 5 | 2 | 30 | 27 | 13 | 0 |
| Informal Tailrace Access | % A-VG | 73 | 85 | 67 | 57 | 83 | 83 |
| | % NAD | 27 | 15 | 33 | 43 | 17 | 17 |
| Informal SR 1744 Site | % A-VG | 90 | 86 | 52 | 32 | 62 | 83 |
| | % NAD | 10 | 14 | 48 | 68 | 38 | 17 |
| Highway 109 | % A-VG | 100 | 100 | 75 | 83 | 100 | 100 |
| | % NAD | 0 | 0 | 25 | 17 | 0 | 0 |
| Total | % A-VG | 89 | 92 | 64 | 49 | 80 | 90 |
| | % NAD | 11 | 8 | 36 | 51 | 20 | 10 |

Note: Acceptable / Very Good=A-VG; Not Adequate=NAD.

7.6 Recreation Carrying Capacity

Carrying capacity is an “umbrella” concept used to address overuse or visitor-impact issues; it generally refers to the maximum use level that can occur in an area without degrading biophysical resources or recreation experiences. As with other resource management issues, estimating the carrying capacity for a particular resource area depends on management objectives and more specific standards that define impact acceptability, both requiring evaluative judgments (Shelby and Heberlein 1986).

With respect to the Recreation Study Plan, stakeholders identified two types of capacities to review in recreation settings at Lake Tillery and Blewett Falls Lake: (1) physical carrying capacity; and (2) social carrying capacity.

Physical carrying capacity refers to the space needed to engage in a particular recreation activity. Assessing physical capacities conceivably makes sense if there are spatial constraints. This capacity sets an upper bound by explaining how many can actually “fit” in an area.

There are different methods to determine a theoretical physical capacity at a lake. The method identified in the study plan was developed by the Bureau of Outdoor Recreation (BOR). Essentially, this method involves looking at the total surface area of the lake and applying a ratio based on user type. For Lake Tillery and Blewett Falls Lake, the estimate of nine acres per boat (unlimited power) was used as the index for maximum boats on the lake at one time. The result for Lake Tillery is 633 boats (based on 5,697 acres); Blewett Falls Lake estimates were calculated for full pond (2,866 acres) and 3 ft below full pond (2,306 acres) for an estimated 318 and 259 boats, respectively.

Social carrying capacity refers to use levels that impair or alter human experiences in recreation settings. Standards are required to define how much interaction, competition, conflict, or signs of use are acceptable for a given type of recreation experience. Impact indicators examined relative to Lake Tillery and Blewett Falls Lake include perceived crowding at access points and on the lake surface.

The importance of understanding social carrying capacity (i.e., people’s perceptions of crowding at the lakes and facilities) is also discussed within the context of recreation use. In addition, a review of recent boating accidents on Lake Tillery was conducted.

In addition, to assist in understanding potential carrying capacity issues relative to use at the lakes, facility capacity was also examined.

Facility capacity refers to the number of people or groups that a developed site or facility is designed to handle. Facility capacity is generally associated with smaller-scale discrete site planning rather than the study of larger areas as in this study. Facility capacities, however, can interact with other capacity issues by attracting and concentrating use. In this context, this study examined parking facility capacities at access areas. Detailed information is provided in Appendix E7-1 and summarized in the discussions below.

7.6.1 Lake Tillery

Recreation Use Estimates

To understand the density of recreation use on the lake surface, the number of watercraft during a single day was estimated for Lake Tillery during April 2004 to March 2005. Recreation use on the lake surface was estimated using the maximum number of watercraft counted per day, which included an estimate for both visitors and residents combined. During peak season, the highest lake surface recreation use was on July 4 with an estimated single-day high of 845 watercraft; the lowest estimated use was estimated as a week day in September, with 484 watercraft (see Table 140, Appendix E7-1). Recreation use on the lake during shoulder season months (i.e., January to April and October to December) was between an estimated 102 (week day) to 227 (weekend) watercraft. The use levels are based on an estimated range of number of watercraft, with the potential for variance within a given day. Not surprisingly, the survey data depicts heavier use by visitors on weekends and holidays.

The level of use was not considered an issue with respect to respondent's perceived evaluation of crowding (see Section 7.6.3, Social Carrying Capacity).

The parking facility capacity was rarely reached for the majority of access areas. It appears that the periods of greatest usage were reached during April, June, and on the July 4 holiday. The facility carrying capacity for parking areas at the Norwood Access Area reached 100 percent facility capacity during one weekend day in April, two weekend days in June, and on the July 4 holiday. Stony Mountain Access Area parking reached 100 percent capacity during one April weekend day, and the Informal Access Area parking reached 100 percent capacity during one October weekday (see Table 136, Appendix E7-1). Therefore, the facility capacity for the parking facilities is rarely reached or exceeded 1 percent of the year for Norwood Access Area, and less than one percent for all other major access areas.

7.6.2 Blewett Falls

Recreation Use Estimates

Recreation use on the Blewett Falls Lake was estimated for week days, weekend days, and holidays. During peak season, the highest lake surface recreation use was on a weekend day in April, with an estimated single-day high of 80 watercraft; and, the lowest estimated use was estimated as a week day in February, with three watercraft (see Table 142, Appendix E7-1). Recreation use on the lake during shoulder season months (i.e., January to April and October to December) was between an estimated three (week day) to 80 (weekend) watercraft. During peak season, the estimated range of watercraft was between eight (week day) and 70 (week day). These estimates were based on spot counts of vehicles with boat trailers three times per day over the course of one year.

The level of use was not considered an issue with respect to respondent's perceived evaluation of crowding (see Section 7.6.3, Social Carrying Capacity).

The parking facility capacity levels at the Blewett Falls access areas were seldom reached or exceeded. Generally, the majority of the access areas experienced increased visitation during April fishing weekends, Memorial Day weekend in May, July weekdays, and the 4th of July holiday.

Specifically, the Grassy Islands Access Area parking exceeded capacity during two April weekend days, the Memorial Day weekend, and one July weekday. The Blewett Falls Canoe Portage Access also exceeded parking facility capacity during one weekday in April and on Memorial Day holiday. The Informal SR 1744 Access Area exceeded facility capacity during one April weekday and approached parking capacity during one weekend day in May; and parking facilities approached reaching capacity during the April and June weekends, and throughout July. The Pee Dee Access Area exceeded capacity on two April fishing weekends; during two weekend days in May; one weekend day in June; one weekend day in August; and twice in July (the 4th of July holiday and one weekend day). With these exceptions, access areas at Blewett Falls Lake rarely neared their current parking facility capacity levels (see Table 137 located in Appendix E7-1).

7.6.3 Social Carrying Capacity

To understand indicator variables related to important social conditions, visitors and residents were asked to express their level of concern for crowded conditions (low, medium, or high); and visitors were also asked their perception of ‘how crowded’ the lake was and ‘how crowded’ was the access area to the lake. The results of the survey, discussed below, demonstrate that crowding is not an issue at either Lake Tillery or Blewett Falls Lake for visitors or residents.

Review of the survey results from both Lake Tillery and Blewett Falls Lake indicates that crowding was generally not perceived as an issue at either of the lakes or facilities by visitors. In addition, a review of the number of boating accidents in 2004 (two non-fatal for Lake Tillery and no reported accidents for Blewett Falls Lake) also supports the conclusion of a lack of crowding. Since 2001, there has been an overall decrease in accidents at Lake Tillery. This, combined with the lack of crowding perceived by visitors and residents, with the exception of five to six days a year, indicates that the facilities at the lakes are not utilized near to capacity.

On the other hand, there is some indication that visitors and residents alike are growing concerned about disruptive use of the lake by some user groups. These concerns include: (1) boaters not following safe boating practices, (2) jet skiers and boaters coming too close to shore causing disruptions for bank fisherman, (3) unruly behavior at some access sites during evening hours, and (4) security issues at parking areas during daytime and evening hours.

Crowding

Crowding was not perceived as an issue amongst visitors and residents alike. The majority of respondents surveyed did not perceive Lake Tillery as “very crowded”. Most people (57 percent) felt that the lake was “not crowded”, 37 percent indicated that the level of crowding was “acceptable”, while 7 percent indicated that they thought the lake was “very crowded”. The majority of respondents did not perceive access points as crowded as well. Of these respondents, 60 percent indicated the access points were “not crowded” at all, while 35 percent perceived the level of crowding as “acceptable”, with 5 percent indicating that access points at Lake Tillery were “very crowded”. Residents also did not rate crowding as a high concern. Forty-five percent of respondents did not express concern related to conditions that interfered with their recreation experience. Thirty-two percent of respondents expressed a low level of concern for crowding on the lake, while 17 percent expressed a medium level of concern, and 6 percent expressed a high level of concern.

The majority of respondents surveyed did not perceive Blewett Falls Lake as being “very crowded”. Most people felt that the lake was either “not crowded” or at an “acceptable” level. Ninety percent of respondents addressed the question of visitor perceptions of crowding at Blewett Falls Lake and of these respondents, 65 percent indicated that they thought the lake was “not crowded”, 31 percent indicated that the level of crowding was “acceptable”, while 4 percent indicated that they thought the lake was “very crowded”. Blewett Falls Lake resident respondents generally had no or low level of concern for crowded conditions on the lake. The majority of respondents (93 percent) answered the question regarding crowding at access points to Blewett Falls Lake. Of these respondents, 65 percent indicated the access points were “not crowded” at all, while 31 percent perceived the level of crowding as “acceptable”, with 4 percent indicating that access at Blewett Falls Lake were “very crowded”.

The results of both the visitor survey and the spot counts lead to the conclusion that both lakes currently do not have social carrying capacity problems. The visitor survey results related to crowding and other potential impacts of overuse support the conclusion that social carrying capacity at Lake Tillery and Blewett Falls Lake is at relatively low levels. This conclusion is based on the fact that perceived crowding is the most commonly used indicator of social capacity problems and relatively few people at either Lake Tillery or Blewett Falls Lake expressed much concern with levels of crowding on the lake or with crowded conditions generally.

While social carrying capacity does not seem to be an issue, based on the surveys of perceived crowding and the number of boating accidents on the lakes, the surveys do identify other concerns. It appears that the most serious concerns involve parking area security and management, conflicts caused by jet skiers and unruly boating behaviors, and trash/litter disposal. These concerns have little to do with boater use levels and more to do with behaviors of recreationists.

7.7 Navigation

At the request of North Carolina and South Carolina state agencies, Progress Energy performed a navigation feasibility analysis of the Pee Dee River as part of the overall recreational studies for this application. The issue to be addressed was whether proposed minimum flows would be adequate to permit recreational boating at identified critical cross sections of Pee Dee River reaches. North Carolina and South Carolina requested an assessment be made of whether South Carolina's navigational criteria would be satisfied with regard to one-way or two-way boat navigability¹.

A total of nine critical transects were identified for further evaluation during field visits in 2004 with SCDNR and NCDENR personnel. Next, an analysis was completed as part of the IFIM Flow Study to determine whether South Carolina's guidelines were being met at different flow levels in the nine critical river segments.

In the entire segment of the Yadkin and Pee Dee rivers evaluated by the navigation model, a total of four of the nine critical transects are predicted to limit navigation at the transect to one-way boat travel. In South Carolina, only one of the nine crucial sections might prove difficult to navigate under two-way criteria using a 14-ft jon boat as defined by the navigation model. This area is located in the Pee Dee River just upstream of the U.S. Highway 1/S.C. Highway 9 Bridge crossing.

Subsequent to reviewing the results of the Instream Flow Study, agency personnel indicated that there were no potential restrictions to boating navigability found within the Pee Dee River at the transects evaluated that would not allow the Project to operate as proposed by Progress Energy for the new license. It is important to recognize that the navigation model evaluated conditions at each transect. Therefore, while navigation of the river may be limited at a transect, it is not limited in the river upstream and downstream of that same transect.

¹ The State of North Carolina has not promulgated any regulations that define navigational criteria for boating activity. During consultation for this relicensing, representatives of North Carolina elected to use South Carolina criteria as a proxy to evaluate whether the project-affected recreational boating opportunities in North Carolina.

7.8 Needs Assessment Summary

The Recreation Needs Assessment provides an overall evaluation of recreation needs at the Project. This assessment is based on the integration of findings from the Inventory and Assessment of Recreation Facilities and the Recreation Visitor and Resident Surveys. The needs assessment involved a four-step process in which relevant information on recreation trends was evaluated, Project-area recreation opportunities were described, relevant Project area recreation issues and management plans were identified, and potential actions to address Project-related effects on recreation resources were identified. These steps are listed below.

- Step 1 - Summary of regional recreation trends and relevant recreation plans.
- Step 2 - Summary of Project-related recreation opportunities at recreation resource areas.
- Step 3 - Evaluation of the major recreation issues for each recreation resource area.
- Step 4 - Identification of potential measures to address Project-related issues.

The entire Needs Analysis is provided in Appendix E7-2 and is summarized below.

Based on Progress Energy's year-long recreation studies and research of recreation trends in the region, Progress Energy has identified a number of measures for both Lake Tillery and Blewett Falls Lake to improve the overall recreational use and experience of both residents and visitors:

1. Installation of sanitary facilities;
2. Lighting and increased security in parking areas;
3. Managed parking spaces to increase parking capacity;
4. Increased shoreline access and handicap access for fishing;
5. Hiking trails and trail information;
6. Wildlife viewing areas;
7. Educating boaters and jet skiers for enhanced awareness; and
8. Management of trash/litter.

The results of the recreation needs assessment identified certain improvements that primarily related to the behavior of specific groups of recreationists. Realistically, there is little that can be done by Progress Energy to modify or control the behavior. Detailed measures proposed by Progress Energy to improve the use and enjoyment of recreation resources at the Project are discussed in Section 7.12 below.

7.9 Comprehensive Plans

Under 18 CFR, Section 16.8, each license application must identify relevant state and federal comprehensive plans and explain how and why a project would or would not comply with the pertinent plans. FERC's list of comprehensive plans, dated March 2006, lists several management and land use plans for North Carolina (FERC 2006). The majority of these plans are not associated with, specific to, or in the same geographic region as the Yadkin-Pee Dee River Project. The following comprehensive plan was found to be relevant to the recreational resources within the Project area.

- *North Carolina Department of Environment and Natural Resources. 2003. Statewide Comprehensive Outdoor Recreation Plan, 2003-2008. Raleigh, North Carolina.*

Pursuant to the federal Land and Water Conservation Fund Act of 1965, states are required to address statewide recreation in order to receive federal funds. The SCORP provides an updated framework for addressing problems, needs, and opportunities related to public outdoor recreation.

SCORP outlines specific actions to be taken by North Carolina to improve outdoor recreational resources for the period of 2002 to 2008. These actions are included in the five major goals identified in SCORP and listed below.

- 1) Improving outdoor recreational resources and services.
- 2) Conserving natural resources.
- 3) Addressing inadequate funding.
- 4) Creating effective partnerships.
- 5) Evaluating the status of the state parks system.

Progress Energy has worked closely with the North Carolina state agencies during the rigorous consultation that has occurred as a function of the Enhanced Traditional Licensing process. Based upon the issues identified by North Carolina as well as their proposals for cooperative efforts to improve the recreational facilities for the Project during this process, it appears that (where applicable for this effort) North Carolina is adhering to the stated goals of the SCORP.

7.10 Consultation Regarding Recreation Resources

Progress Energy published its Initial Consultation Document (ICD) for relicensing the Yadkin-Pee Dee River Project in February 2003. At the Joint Meeting held in March 2003, Progress Energy presented an overview of the Project, reviewed information provided in the ICD, and provided an opportunity for stakeholders and the public to comment on the ICD and to identify concerns and issues related to Project operations and effects.

Progress Energy also used the Joint Meeting to invite resource agencies and interested parties to further participate in the relicensing process by being involved with one or more RWGs. The purpose of the RWGs was to provide an opportunity for all stakeholders to work cooperatively on the review and discussion of existing data, identification of resource issues, identification of needed studies and their goals, and review of study plans. RWGs were established in four resource areas: 1) water resources; 2) terrestrial resources; 3) recreation and land use; and 4) cultural resources.

The Recreation and Land Use RWG held its first meeting on May 8, 2003. A list of the meetings that occurred in the Recreation and Land Use RWG is presented below:

- Meeting No. 1..... May 8, 2003
- Meeting No. 2..... June 11, 2003
- Meeting No. 3..... August 13, 2003
- Meeting No. 4..... November 14, 2003

A copy of meeting minutes and resulting agreed-upon study plans are provided in Appendix A. Participants in the RWG included state, federal, and local authorities as well as members of the public. Issues pertinent to the Project were identified and defined within the RWG. A determination was made by the RWG if existing information was sufficient to address the issue or if there were a need for additional information.

The Recreation and Land Use RWG identified specific recreation issues and requested that they be studied as part of the relicensing effort. Progress Energy prepared a draft study plan, reviewed it within the RWG in 2003, amended the study plan, and finalized it in January 2004. A copy of this study plan has been included in Appendix A of this License Application. Progress Energy implemented the study plan in 2004 and 2005. It was also decided within the RWG that discussions of boating navigation in the river reaches downstream of the dams would be handled within the Instream Flow Subgroup.

Between July 2004 and March 2006, a total of 11 Prefiling Comprehensive Agreement Meetings were held by Progress Energy and interested Stakeholders to discuss issues identified for the project, including recreation. The purpose of the Comprehensive Agreement Meetings was to craft an agreement for the new license term that met the needs of all parties involved in the effort. Unfortunately, no agreement was reached prior to filing this License Application.

Additional consultation resulted after Progress Energy submitted to FERC and stakeholders on November 17, 2005 the Draft License Application (DLA) for the Project. Comments received on the DLA are included in Appendix A of this application.

7.11 Summary of PM&E Measures Proposed by Resource Agencies and Other Parties

The NCWRC addressed recreation PM&E measures in their February 11, 2006 comment letter on the DLA. Their request for a handicapped-accessible public fishing area on the Stanley County side of Lake Tillery and for a boat ramp for use by law enforcement personnel on Lake Tillery have been included in Progress Energy's proposal. NCWRC's request for a survey to determine what elevation and boating access becomes unusable has been completed for Lake Tillery. Progress Energy is not proposing to complete this survey for Blewett Falls Lake. The USFWS, in their February 13, 2006 correspondence to Progress Energy, proposed enhancements and more access provided for tailwater access areas, and for facilities that are in compliance with Americans with Disabilities Act. Details of Progress Energy's response to these requests are included in Appendix A of this application.

7.12 Summary PM&E Measures Proposed by Progress Energy

Progress Energy has proposed a number of recreational enhancement measures for the Tillery and Blewett Falls developments based on results of its recreational studies, a review of Project safety considerations, and input from relicensing stakeholders. Overcrowding on the lakes and at public access areas were not perceived as an issue of concern by recreational users at either of the Project lakes. Issues identified by recreational users were more related to behavior of recreationists and discrete facility conditions than to recreation use levels. The physical facilities issues of most concern involved trash/litter disposal, lack of sanitary facilities, parking area security and parking management, and increased information on lake levels.

Visitors expressed a higher degree of concern regarding water levels at Blewett Falls Lake than at Lake Tillery. There can be difficulty with boat launching at the Grassy Islands boating access area at Blewett Falls Lake under low-flow levels when this is combined with Project maintenance conditions requiring the lake to be lowered. Progress Energy did perform an informal evaluation at Lake Tillery of the effect of a 5-ft drawdown on the ability to launch boats at the public boat launch sites. Based on attempts by Progress Energy personnel to launch a boat at each of the five separate public boat launch facilities on Lake Tillery, the impact of a lowered lake level appears to be minimal. The only site where Progress Energy personnel were not able to launch their boat was the Swift Island site. Progress Energy proposes to limit the fluctuation on Lake Tillery to not more than 1.5 ft on weekends and 3.0 ft on weekdays from April 15 to December 15. Based on the proposed fluctuation limits, Progress Energy does not believe that public boating access will be restricted at Lake Tillery.

There is some indication by users of growing concerns over disruptive behaviors of some recreationists on the lake. These concerns were primarily associated with some boaters not following safe boating practices and jet skiers and motor boaters coming too close to shore. Progress Energy discussed this issue with relicensing stakeholders. The legal enforcement of boating activity on Project lakes is under the authority of the NCWRC, Division of Enforcement. In North Carolina, there is no ability to enforce no wake zones or prohibit jet ski use of a lake. However, Progress Energy is proposing to co-fund a NCWRC enforcement facility/boat house on Lake Tillery that will serve as a central point for safe boating enforcement activities on the lake.

Additional needs identified by recreational users of Lake Tillery and Blewett Falls Lake included hiking trails and trail information, and wildlife viewing areas. Progress Energy evaluated their ability to provide these measures, and determined that the extent of lands controlled by Progress Energy within the Project Boundary did not provide Progress with the ability to develop a suitable network of hiking trails for use by the general public.

Progress Energy believes that the existing and proposed recreational facilities for the Project have the ability to serve as wildlife viewing areas. For example, expansive views of Lake Tillery are available at the canoe portage takeout as well as from the proposed Stony Mountain access point. At Blewett Falls Lake, expansive views are available at the Pee Dee access point on the western shoreline and at the canoe portage on the eastern side of the lake. The restricted development and resultant shoreline protection around Blewett Falls Lake will also maintain wildlife viewing opportunities throughout the license term. Progress Energy is also proposing to establish within five years of a new license a new access public access point on the eastern shoreline of Blewett Falls Lake. This access point will also enhance the opportunity for public wildlife viewing at the lake. In

addition to these wildlife viewing opportunities, Progress Energy proposes to provide wildlife viewing information as part of their proposal to upgrade the public information signage at the public access areas for the Project.

The proposed recreation measures identified below are based on the results of the recreation studies and consultation with stakeholders. These enhancements will provide the public with additional access and recreational opportunities at the Project during the next license term while improving overall Project safety. The specific enhancement measures are described for each development below. Detailed site plans for recreational enhancements, the proposed implementation dates, and the specific responsibilities of the involved parties will be filed with FERC after issuance of the new license. Progress Energy proposes to file its detailed plan and schedule for implementation within 180 days (six months) after license issuance by FERC. Progress Energy proposes to work with the NCWRC, North Carolina Division of Parks and Recreation, and local county officials during the design and implementation of these recreational enhancements.

7.12.1 Tillery Development

7.12.1.1 Lake Tillery Public Boating Access Areas

Progress Energy proposes to make improvements at four public boating access areas located on Lake Tillery - Lilly's Bridge, Swift Island, Norwood, and Stony Mountain (Figure E7-1). Generally, improvements to these areas include the addition of public vault-type sanitary facilities, trash receptacles, improved structured parking areas, additional public information signage, and updating the Project public information kiosks. Also to be provided is a new handicapped-accessible fish pier at the Stony Mountain access area. No improvements are being made at the Morrow Mountain State Park boating access area as that access is under the control of the North Carolina Department of Parks and Recreation (Figure E7-1). The Morrow Mountain boating facility already has sanitary facilities, good parking facilities, and public information signage. However, Progress Energy will work with the Morrow Mountain State Park personnel to update the Project public information kiosk. Specific improvements that will be made at each boating access area are described below.

■ **Lilly's Bridge Access Area**

Progress Energy will install new men's and women's public vault-type sanitary facilities, install new trash receptacles, update the public information signage including a new Project public information kiosk, and improve parking facilities for vehicles and boat trailers. The parking improvements will include necessary grading and gravel and providing clearly designated parking areas with additional posts and cables, concrete curbs, or other specified materials to enhance the efficient utilization of space for parking. Additional signs will be provided to help direct the public into the parking and boat launch/retrieve areas.

■ **Swift Island Access Area**

Progress Energy will provide men's and women's public vault-type sanitary facilities, install new trash receptacles, update the public information signage including a new Project information kiosk, and improve parking facilities for vehicles and boat trailers. The parking improvements will include necessary grading and gravel and providing clearly designated parking areas with additional posts and cables, concrete curbs, or other specified materials to enhance utilization of space for parking.

Additional signs will be provided to help direct the public into the parking and boat launch/retrieve areas.

Progress Energy will also install a picnic shelter with tables for public use at the Swift Island access area. Additional signage will provide information about the facility for public use. The picnic shelter and sanitary facilities will be ADA accessible. The parking facilities will have designated vehicle parking for the public using the picnic shelter, including appropriate ADA-designated parking adjacent to the shelter.

■ **Stony Mountain Access Area**

Progress Energy will provide men's and women's public vault-type sanitary facilities, install new trash receptacles, update the public information signage including a new Project public information kiosk, and improve parking facilities for vehicles and boat trailers. The parking improvements will include necessary grading and gravel and structuring the designated parking areas with additional posts and cables, concrete curbs, or other specified materials to enhance utilization of space for parking. Additional signs will be provided to help direct the public into the parking and boat launch/retrieve areas.

Progress Energy also proposes to install a handicapped-accessible public fishing pier on the Project lands located on the peninsula adjacent to and south of the existing boating access area (Figure E7-5). The pier will be built according to design specifications that meet requirements specified under the ADA. The fishing pier will be floating and adjustable to varying lake levels with operation of the Tillery Plant. In addition to the pier, there will be a formal, designated trail that leads to the fishing pier which will be constructed with the appropriate materials and grade suitable for ADA accessibility to the fishing pier. Progress Energy proposes to partner with the NCWRC in the specific design, siting, and construction of the public fishing pier and access trail on the Project lands. Progress Energy will provide up to \$25,000 to build the fishing pier and access trail and make improvements to the parking area. In turn, the NCWRC will provide the expertise in siting, design, and overall construction of the fishing pier and access trail. NCWRC will be responsible for the long-term maintenance of this facility. Progress Energy will also install a new Project public information kiosk near the public fishing pier and additional signage that directs the public to the trail access and pier location. The parking facilities will have designated vehicle parking for the public using the fishing pier, including the appropriate ADA-designated parking adjacent to the access trail.

■ **Norwood Public Access Area**

Progress Energy will provide men's and women's public vault-type sanitary facilities, install new trash receptacles, update the public information signage including a new Project information kiosk, and improve parking facilities for vehicles and boat trailers. The parking improvements will include any necessary grading and gravel and structuring the designated parking areas with additional post and cables, concrete curbs, or other materials to enhance utilization of space for parking. Additional signs will be provided to help direct the public into the parking and boat launch/retrieve areas.



Figure E7-5 Aerial photograph showing Progress Energy lands where the ADA fishing pier and NCWRC law enforcement boat house facility will be located adjacent to and south of the Stony Mountain Boating Access Area.

Note: The exact location of these facilities will be determined after consultation with the NCWRC. Site plans with the specific locations of each facility will be filed with FERC after this consultation. Refer to Figure E7-1 for location of this area on Lake Tillery.

Progress Energy will also install a picnic shelter with tables for public use at the Norwood access area. The picnic shelter and sanitary facilities will be ADA accessible. The parking facilities will have designated vehicle parking for the public using the picnic shelter, including the appropriate ADA designated parking adjacent to the shelter. Additional signage will provide information about the facility for public use.

7.12.1.2 Tillery Plant Tailwaters Public Boating Access Area

Progress Energy proposes to close the existing informal public boating access area located in the tailrace immediately below the Tillery Plant due to safety concerns. Progress Energy, in consultation and partnership with the NCWRC, will develop and construct a new public boating access area located at the mouth of Clarks Creek, approximately one-half mile below the

powerhouse and one-quarter mile from the current access area. This proposed access area will provide improved launching and retrieving of boats and greater bank fishing. Figure E7-6 shows a photograph of the proposed location which will be adjacent to N.C. Highway 731 Bridge. Public access to the Clarks Creek boating access area will be from the current power plant access road (i.e., Tillery Dam Road) located off State Road 1103 and N.C. Highway 731. The boating access area will have a gravel parking lot with designated ADA parking spaces. Progress Energy will provide the land for the proposed Clarks Creek boating access area and funding for construction of the access area. NCWRC will be responsible for the long-term maintenance of this access area.



Figure E7-6 Photograph of the proposed Clarks Creek boating access area downstream of the Tillery Hydroelectric Plant. Actual siting of the boating access area, including the launch/retrieval ramp, will be developed through consultation with the NCWRC. Refer to Figure E7-1 for location of this area on the Pee Dee River below the Tillery Plant.

Progress Energy will provide trash receptacles at the proposed Clarks Creek boating access area. Additionally, Progress Energy will install the appropriate signage directing the public to the boating access area and also install a new Project public information kiosk at the access site.

7.12.1.3 Additional Recreational Enhancements at the Tillery Development

■ **NCWRC Enforcement Boat House and Access**

Progress Energy proposes to work with the NCWRC in co-funding with matching dollars the construction of a boat house and access ramp for use by enforcement personnel on Lake Tillery. This facility will permit the NCWRC to respond more effectively to boating emergencies on the lake and serve as a central point for safe boating enforcement activities on the lake. The proposed location is on the main lake side of the Project lands on the peninsula located adjacent to and south

of the Stony Mountain boating access area (Figures E7-1 and E7-5). There is an existing trailer located at this site that the NCWRC currently uses for boating enforcement activities. Progress Energy will work with the NCWRC on the siting and construction of this facility. NCWRC will be responsible for the long-term maintenance of this facility.

■ **Informal Access Area at SR 1740 and 1745 (Steel Bridge Area)**

Progress Energy will consult with the NCWRC on effective means to discourage public use of the informal public access area at SR 1740 and 1745, locally known as the Steel Bridge Area (see Figure E7-1). This area is used for public bank fishing and an informal area to launch boats. The methods to discourage use of the area may include, but are not limited to, cable and posting to prevent parking and/or launching of boats; signage that prohibits fishing and boating activities; and enforcement by either the NCWRC or local county enforcement. The development of the public fishing pier at the nearby Stony Mountain boating access area will provide additional public fishing opportunities to compensate for the loss of fishing at the Steel Bridge area.

7.12.2 Blewett Falls Development

7.12.2.1 *Blewett Falls Public Boating Access Areas*

Progress Energy proposes a number of improvements to the two existing public boating access areas on Blewett Falls Lake - the Pee Dee and Mountain Creek (Grassy Islands) access areas (Figure E7-2). Specific measures to be implemented at each boating access area are described below.

■ **Pee Dee Access Area**

Progress Energy will provide men's and women's vault-type public sanitary facilities, install trash receptacles, update the public information signage including a new Project information kiosk, and improve parking facilities for vehicles and boat trailers. The parking improvements will include necessary grading and gravel and clearly designate parking areas with additional post and cables, concrete curbs, or other specified materials to enhance utilization of space for parking. Additional signs will be provided to help direct the public into the parking and boat launch/retrieve areas.

Progress Energy will also install a picnic shelter with tables for public use at the Pee Dee access area. Additional signage will provide information about the facility for public use. The picnic shelter and sanitary facilities will be ADA accessible. The parking facilities will have designated vehicle parking for the public using the picnic shelter, including the appropriate ADA designated parking adjacent to the shelter.

Progress Energy will also extend the boat launch ramps to permit effective boating accessibility over the range of lake fluctuation levels proposed for the new license term. These improvements may include extending the existing ramps or limited dredging at the end of the launch ramps.

■ **Grassy Islands Access Area (Mountain Creek Access Area)**

Progress Energy will provide trash receptacles, update the public information signage including a new Project information kiosk, and improve parking facilities for vehicles and boat trailers. The

parking improvements will include necessary grading and gravel and structuring the designated parking areas with additional post and cables, concrete curbs or other specified materials to enhance utilization of space for parking. Additional signs will be provided to help direct the public into the parking and boat launch/retrieve areas.

Progress Energy will also work with the NCWRC to improve the boat ramps to permit effective boating accessibility over the range of lake levels proposed for the new license term. These improvements may include extending the existing ramps or limited dredging at the end of the ramps.

7.12.2.2 Other Recreational Enhancements at the Blewett Falls Development

■ **Richmond County Public Boating Access**

Progress Energy proposes to construct a new public boating access area on the Richmond County (east) side of Blewett Falls Lake within five years of issuance of the new license. The new boating access area will be located in the lower lake area opposite the existing Pee Dee access area located on the Anson County (west) side of the lake (Figure E7-2). Progress Energy will work with local county officials and interested landowners to site the new public boating access area. Access across a number of private parcels will have to be obtained. Progress Energy will also consult with the NCWRC and Richmond County on design and construction of the boating access area. NCWRC would maintain the site.

The new boating access area will be provided with a picnic shelter with tables for public use, men's and women's vault-type sanitary facilities and trash receptacles, structured parking, and a Project public information kiosk. The new boating access area will have ADA-designated parking area adjacent to the launch ramps.

■ **Blewett Falls Canoe Portage Facility**

Progress Energy proposes to upgrade the canoe portage facility located on the east shoreline of Blewett Falls Dam (Figure E7-2). Progress Energy will consult with the North Carolina Division of Parks and Recreation about upgrading this portage facility to applicable state recreational standards. Any identified upgrades to the portage site will be made by Progress Energy.

■ **USGS Rockingham Gage Stream Flow Data for Blewett Falls Tailwaters**

Progress Energy will provide an electronic link on its external Company internet web site that will allow the public to access real-time Pee Dee River stream flow data at the USGS Rockingham gage station (USGS Gage No. 02129000).

These measures, in combination, will substantially enhance the current use and enjoyment of the Project's recreation resources.

7.13 References

- Appalachian State University. 1999. North Carolina's Central Park: Assessing Tourism and Outdoor Recreation in the Uwharrie Lakes Region. Appalachian State University, September 1999.
- Carolina Power & Light. 2001. CP&L – A Progress Energy Company. Shoreline Management Plan for the Tillery Hydroelectric Project (FERC No. 2206). Submitted by Carolina Power & Light – A Progress Energy Company, December 30, 2001. Prepared by The Louis Berger Group, Inc.
- Gorp. 2002. Destinations: Pee Dee National Wildlife Refuge. [Online] URL: http://www.gorp.com/gorp/resources/us_nwr/nc_peede.htm. (Accessed May 24, 2002.)
- National Park Services. 2001. National Park Service Nationwide Rivers Inventory. [Online] URL: <http://www.nrc.nps.gov/programs/rtca/nri/STATES/nc.html>. (Accessed June 17, 2002.)
- North Carolina Division of Parks and Recreation. 2005. North Carolina Statewide Comprehensive Outdoor Recreation Plan. North Carolina Outdoor Recreation Plan 2003-2008. [Online] URL: <http://ils.unc.edu/parkproject/resource/scorp.html>. (Accessed May 2005.)
- Progress Energy. 2003. Initial Consultation Document. Yadkin-Pee Dee River Project FERC No. 2006. Submitted by Progress Energy, Raleigh, North Carolina, February 2003.
- . 2005. Draft Application for License. Prepared for Progress Energy. November 2005.
- Uwharrie National Forest North Carolina. 2005. The Birkhead Mountains Wilderness. [Online] URL: www.cs.unca.edu/nfsnc/recreation/uwharrie/birkhead_mountain_wilderness.htm. (Accessed October 4, 2005.)
- U.S. Department of the Interior. 1983. Mammals, Amphibians and Reptiles of the Pee Dee National Wildlife Refuge. RF-42550-5. May 1983.

APPENDICES

APPENDIX E7-1
RECREATION USE LEVELS IN THE PROJECT AREA

**APPENDIX E7-1
RECREATION USE LEVELS IN THE PROJECT AREA**

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APPENDIX E7-1
RECREATION USE LEVELS IN THE PROJECT AREA
AND
RECREATION CARRYING CAPACITY

1.1 Recreation Use Levels

1.1.1 Lake Tillery and Blewett Falls Lake Recreational Use Assessment

The purpose of the recreation use assessment was to document current use of recreation resources at the Project as well as to estimate future use at the Project. This study was developed to address those issues identified in the Land Use and Recreation Resource Working Group; specifically Issue No. - 4 Recreation Use Study.

The specific areas that the study focused on include, carrying capacity and facility condition, public and private access, canoe portage adequacy, tailrace fishing success, and impacts from recreational use. Impacts to recreation due to Project operations were also included as part of this assessment. Survey and spot count data from the access areas that apply to the Progress Energy Project specifically are discussed in the text and all (i.e., private sites and those not managed by Progress Energy) survey and spot count data are included in the tables.

Current use of the Project was documented through a combination of survey methods that addressed visitors and residents of Tillery and Blewett Falls lakes. These included spot counts, questionnaires at recreation facilities, and mailed questionnaires to residents of the lakes.

Spot Counts

Spot counts were conducted at the public and private access recreation areas listed below:

- **Lake Tillery**
 - Norwood Access Area - TW
 - Stony Mountain Access
 - Swift Island Access
 - Lilly's Bridge Access
 - Tillery Access (Informal SR 1740 & SR 1745)
 - Morrow Mountain State Park
 - Tillery Canoe Portage
 - Informal Access Area-Tailrace
 - Twin Harbor (Private)
 - Holiday Shores (Private)
 - Woodrun (Private)
 - Carolina Forest (Private)
- **Blewett Falls Lake**
 - Blewett Tailwater Access Area
 - Pee Dee Access Area
 - Grassy Islands Access Area
 - Blewett Falls Canoe Portage

- U.S. Highway 74 Site
- Informal Access-TW
- Informal SR 1744 Site
- Highway 109

The spot counts were conducted for a 12-month period, beginning in April 2004 and concluding in March 2005. Sampling days were randomly selected by a stratified random sampling method and included the following:

- a. Three weekend days and three weekdays a month during April, May, June, July, August, September, and October (including Memorial Day, 4th of July, and Labor Day).
- b. Two weekend days and two weekdays a month during November, December, January, February, and March.

Each site was visited three times per day (morning, afternoon, and evening) on the same sample date. The sample day was defined from sunup to sundown. The order of the sites visited was randomly determined for each sample date. At each location, information was recorded to document the number of vehicles, boat trailers, anglers, swimmers, and other recreational users.

Canoe Portage Survey

In addition to conducting spot counts at the canoe portages located at Tillery and Blewett Falls Dams, a survey box with a survey questionnaire for canoeists was installed at a visible location near the take-out point. Progress Energy retrieved the information from the collection boxes and tabulated usage.

Visitor Use Survey

Progress Energy conducted an on-site Visitor Use Survey at Tillery and Blewett Falls Lakes, which provided information on user characteristics, recreational activities, concerns, and overall recreational experiences. The survey was conducted at the public recreation areas from users present at the time of the visit for each spot count.

Resident and Private Facility Use Survey

A recreation use survey was mailed to waterfront residents on Lake Tillery and Blewett Falls Lake. A subset of the waterfront residents were randomly selected each month at Lake Tillery and residents at Blewett Falls Lake. The survey provided information on user characteristics, recreational activities, concerns, and overall recreational experiences.

Tailrace Fishing Survey

A survey of fishermen utilizing the public tailrace fishing areas located just downstream of Tillery and Blewett Falls dams was conducted. A survey box containing survey questionnaires was installed at a visible location near the tailrace fishing areas. Progress Energy employees retrieved the information from the collection boxes and tabulated use of the fishing areas and documented recreational fishing success.

Facility Inventory and Condition Assessment

Progress Energy conducted an inventory of public recreational facilities located on the Project. In addition to the inventory, an assessment of existing conditions at each facility was also conducted. Information describing the condition of each facility was recorded.

1.1.2 Visitor Use Survey Results

Visitor use estimates for Lake Tillery and Blewett Falls Lake were calculated based on the results from the Visitor Use Spot Count Survey which began in April of 2004 and ended in March of 2005. Sites included both public and private access areas, and were surveyed during weekdays, weekends, and holidays.

1.1.2.1 Estimated Visitor Use at Lake Tillery and Blewett Falls Lake

To estimate the total number of visitors at each lake, the following steps and assumptions were utilized:

- 1) First, based on direct spot count observations from April 2004 – March 2005, the minimum and maximum number of vehicles for a particular weekday, weekend day, and holiday day were calculated (per site, per month);
- 2) Next, based on the minimum and maximum per day vehicle counts, the average number of vehicles by type of day (i.e., weekend day, weekday and holiday) was calculated per month;
- 3) The average group size per access area was calculated based on survey forms completed by participants; (Note: For private access sites, the average total group size estimate was used. On-site surveys were not conducted for residents; residents were drawn at random to complete resident surveys monthly).
- 4) The maximum number of vehicles per type of day was used as a multiplier for the average group size taken per access area by type of day;
- 5) These calculations resulted in an estimated number of visitors by access point and by type of day (i.e., weekend, weekday, or holiday); and, the estimated number of visitors per site by type of day was then multiplied by the number of weekdays, weekend days and holidays per month, for total monthly and annual estimates by lake.

Lake Tillery

Table 1 (all Appendix E7-1 tables are located at the end of Appendix E7-1) depicts estimated use counts for Lake Tillery. The highest visitation months are estimated as July (8,899 visitors), May (8,060 visitors), June (7,786 visitors), and April (7,644 visitors). On average, August (5,066 visitors) and October (4,077 visitors) were slightly lower than peak months, with overall estimated visitation decreasing by more than half during the rest of the year: November (2,968 visitors); September (2,693 visitors); March (2,137 visitors); December (1,362 visitors); January (1,089 visitors); and February (920 visitors).

Figure 1 depicts the estimated total vehicle weekday versus weekend spot count per month, showing the minimum, maximum, and average number of vehicles per access site for Lake Tillery. Vehicle counts formed the basis for estimating the number of visitors per access site over 12 months.

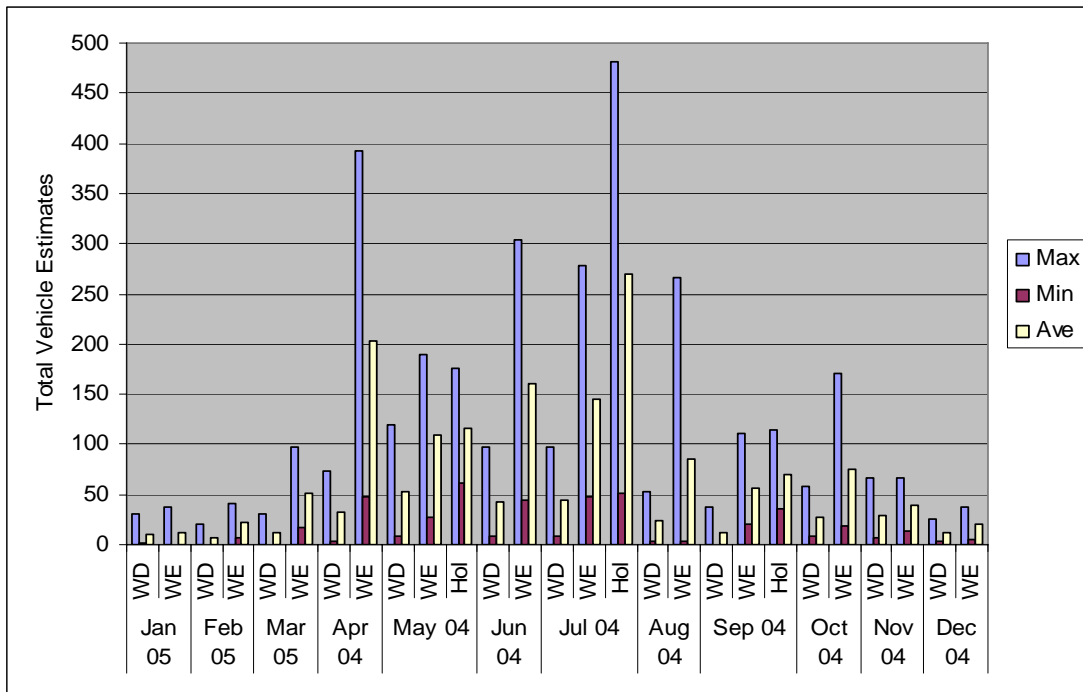


Figure 1 Lake Tillery - monthly visitor use estimate.

Blewett Falls Lake

Table 2 depicts estimated use counts for Blewett Falls Lake. The highest visitation months are estimated as May (4,156 visitors), April (3,889 visitors), July (3,114 visitors), and June (2,363 visitors). On average, August (1,853 visitors) was slightly lower than peak months, with overall estimated visitation decreasing by more than half during the rest of the year: October (921 visitors); September (849 visitors); March (756 visitors); November (616 visitors); December (370 visitors); January (231 visitors); and February (193 visitors).

Figure 2 depicts the estimated total vehicle weekday versus weekend spot count per month, showing the minimum, maximum, and average number of vehicles per access site for Blewett Falls Lake. Vehicle counts formed the basis for estimating the number of visitors per access site over 12 months.

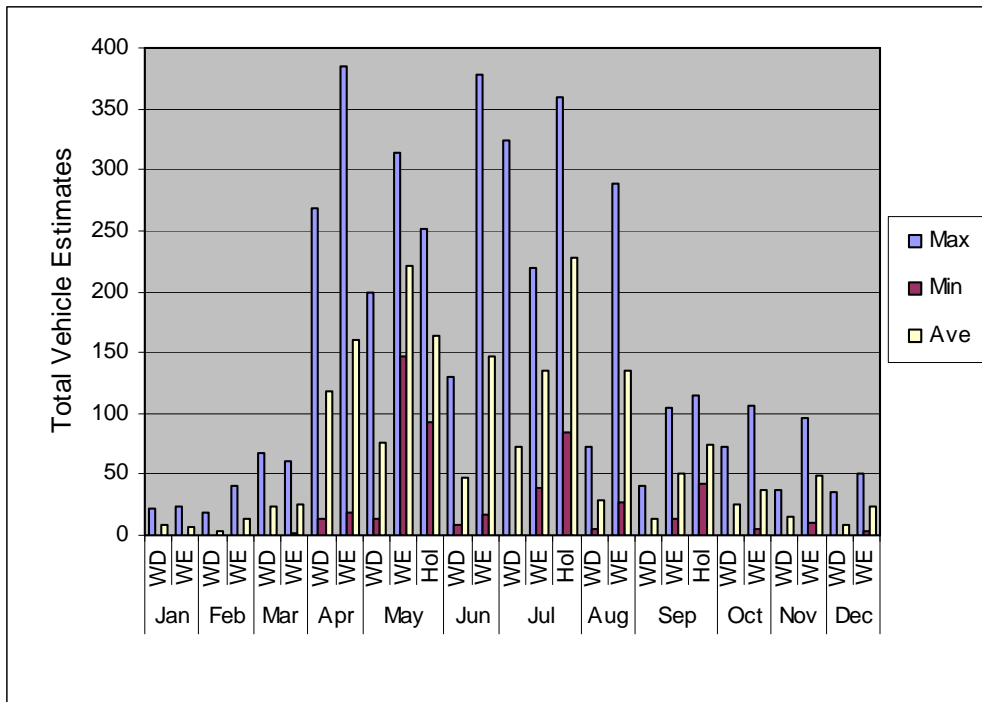


Figure 2 Blewett Falls - monthly visitor use estimate.

1.1.2.2 Socio-demographics

Lake Tillery

The visitor use survey addressed socio-demographic questions including: gender, place of residence, and age (see Table 3). The sample was dominated by male participants, consisting of 970 (84 percent) males, 179 (16 percent) females. Of those access locations identified by respondents, males also dominated each access location by more than 78 percent or higher (Table 4). The mean age of respondents was 43, with a wide distribution ranging from 12 to 84 years of age. Approximately 70 percent of the sample was 50 years of age or younger. (Note: The age related data are presented in categories to more efficiently represent the characteristics of the respondents). The majority (97 percent) of respondents were from North Carolina, with a small percentage (2 percent) from South Carolina, and less than 2 percent from out of state (Figure 3).

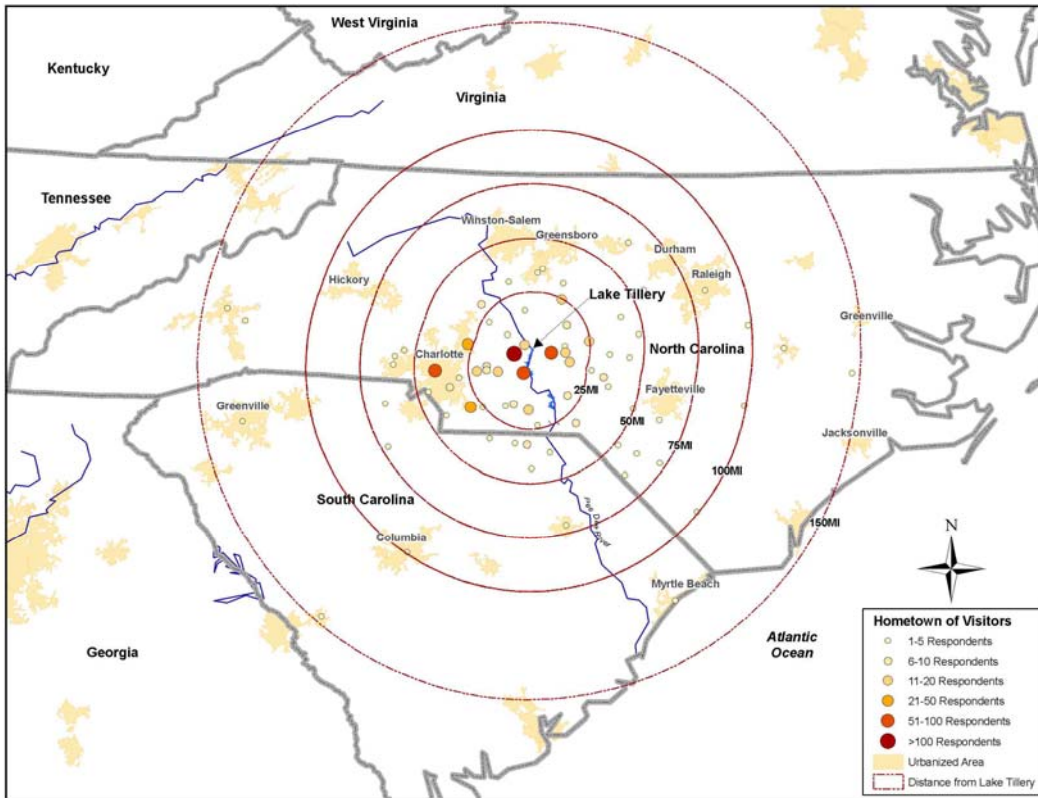


Figure 3 Lake Tillery - distribution of visitors’ home towns.

Blewett Falls Lake

Responses from socio-demographic questions for Blewett Falls Lake are outlined in Table 5. Similar to Lake Tillery, the sample from Blewett Falls Lake was dominated by male participants, consisting of 568 (85 percent) males and 99 (15 percent) females. Of those access locations identified by respondents, males dominated each access location by 74 percent or higher (Table 6). The mean age of respondents was 44, with a distribution of 14 to 91 years of age. Approximately 66 percent of the sample was 50 years of age or younger. As with Lake Tillery, the majority (97 percent) of respondents at Blewett Falls Lake were from North Carolina, with 2 percent from South Carolina, and less than 2 percent from out of state (Figure 4).

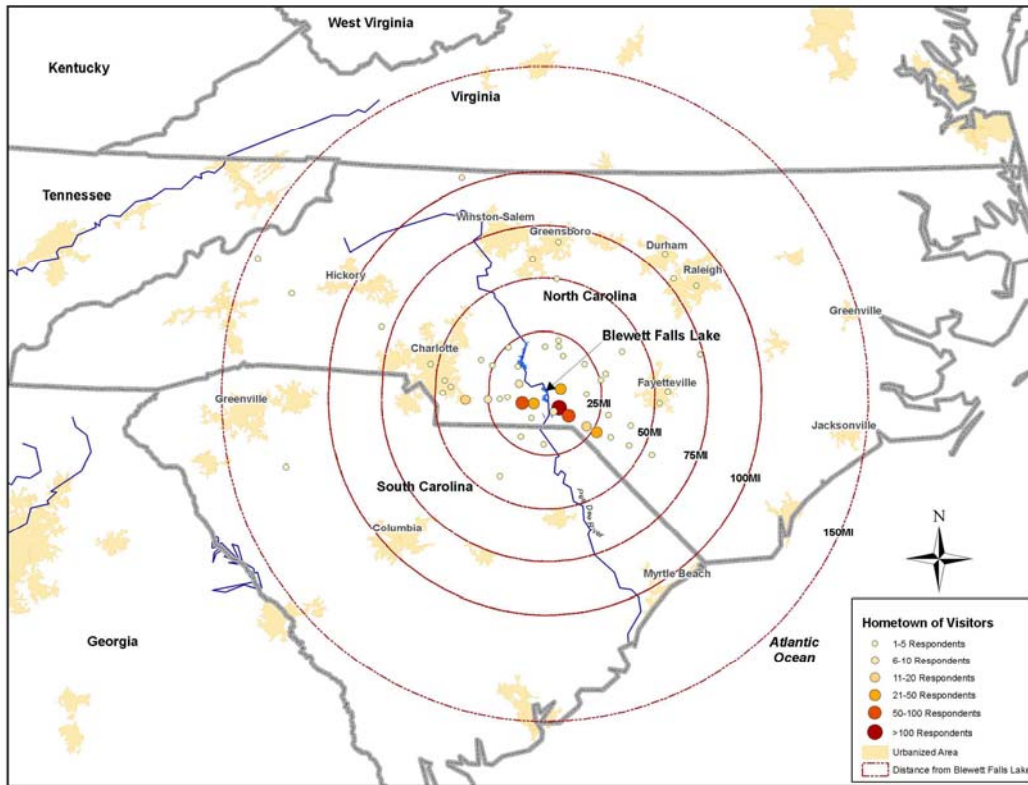


Figure 4 Blewett Falls Lake - distribution of visitors' home towns.

1.1.2.3 Group Characteristics

Respondents were asked how many people were in the group, including the number of adults and the number of children. In general, visitors to both lakes travel in relatively small groups, with few children.

Lake Tillery

The average group size of respondents (n=1179) at Lake Tillery was 3 persons per group (Table 7). Groups had a wide distribution from 1-110, the latter reported one time at the Stony Mountain Access area. Of the groups represented at Lake Tillery, the average number of children per group was less than 1 (Table 8). The number of children reported per group was distributed between a minimum of 0 and maximum of 30.

Blewett Falls Lake

The average group size of respondents (n=688) at Blewett Falls Lake was also three persons per group (Table 9). Groups had a size distribution from 1 to 41, the latter reported one time at the Informal SR 1744 Site. Of the groups represented at Blewett Falls Lake, the average number of children per group was less than one (Table 10). The number of children reported per group was distributed between a minimum of 0 and maximum of 12.

1.1.2.4 Visitation Frequency

To understand visitor behavior, respondents were asked questions concerning their visitation patterns to the lakes. Respondents were asked to estimate how many times per year they visited the lake, how many hours they spent at the lake on the day they were surveyed, and whether or not they stayed overnight. For both lakes, respondents are returning visitors.

Lake Tillery

The majority of respondents visiting Lake Tillery have visited the lake previously (Table 11). Most respondents visited more than 6 times per year, with just over one-third visiting one to five times per year. Respondents (n=1201) were generally repeat visitors to the lake. Norwood Access respondents reported a high frequency of visitation, with a majority visiting over 11 times per year; the majority of Stony Mountain Access visitors reported over six times per year, similar to Swift Island Access, Lilly's Bridge, Tillery Access, Tillery Canoe Portage, and the Informal Access Area visitation. Stony Mountain Access, Swift Island Access, Lilly's Bridge Access, Tillery Canoe Portage, and the Informal Access Area visitors follow a similar consistent pattern of 15 to 20 percent of visitors reporting across the 1 to 5 to 21 to 50 visitation ranges (Table 12).

Slightly over half of the respondents identified spending between one and four hours at Lake Tillery (54 percent). Thirty-seven percent identified spending four to eight hours, and 9 percent identified spending more than eight hours at the Lake (Table 13). Fourteen percent of respondents spent one or more nights at Lake Tillery. Of those people spending at least one night, 38 percent of the respondents spent one night, 34 percent spent two nights, and 15 percent spent three nights (Table 14). The majority of respondents stating that they had stayed over night came from two access areas: Swift Island Access followed by Lilly's Bridge Access Area.

Blewett Falls Lake

The majority of respondents visiting Blewett Falls Lake had visited the lake previously (Table 15). Most of the respondents had visited more than 6 times per year, with only 16 percent visiting one to five times per year. As with Lake Tillery, respondents (n=698) at Blewett Falls Lake were generally repeat visitors to each access location. The majority of visitors reported visiting more than 10 times per year came from Blewett Tailwater Access Area (70 percent), Pee Dee Access Area (65 percent), Grassy Islands Access Area (79 percent), Informal Tailrace Access (79 percent), and the Informal SR 1744 Site (79 percent). Visitors from the Blewett Falls Canoe Portage reported visiting less frequently, with 43 percent visiting 1 to 10 times per year respectively (Table 16).

Half of the respondents identified spending between one and four hours at Blewett Falls Lake (50 percent). Thirty-nine percent identified spending four to eight hours, and 11 percent identified spending more than eight hours at the Lake (Table 17). Twenty-one percent of respondents spent one or more nights at Blewett Falls Lake. Of those people spending at least one night, 45 percent of the respondents spent one night, 26 percent spent two nights, 16 percent spent three nights and 13 percent spent four to seven nights (Table 18). The majority of respondents staying over at least one night were from the Informal SR 1744 Site, followed by Pee Dee Access Area, Blewett Tailwater Access Area and Grassy Islands Access Area.

1.1.2.5 Recreational Activities

To understand recreational activities visitors engaged in, respondents were asked to identify the activities they engaged in over the past 12-months, their primary reason for visiting the lake, and the activities they were engaged in on the day they were surveyed. Three activities were prominent at both lakes; boat fishing, bank fishing and motor boating. Respondents were also asked whether or not they participated in night time activities, and if so what activities they engaged in. In general, about half of visitors to Lake Tillery (49 percent) and Blewett Falls Lake (59 percent) participated in a night time activity.

Lake Tillery

■ **Recreation Activities Over Past 12 Months**

Visitors to Lake Tillery enjoy a range of activities from boat fishing to camping, wildlife viewing to hiking, and a range of other water related opportunities. Of those surveyed (n=1209), boat fishing was the most common recreational activity participated over the past 12 months at Lake Tillery (51 percent), (Table 19). Bank fishing was the second most common activity participated in over the past 12 months at Lake Tillery (40 percent). The third most common recreational activity at Lake Tillery was motor boating, with 27 percent of respondents participating over the past 12 months. A majority of those reporting motor boating were from the Swift Island (n=128) and Lilly's Bridge (n=77) Access Areas. Swimming was the fourth most common recreation activity participated in within the past 12 months at Lake Tillery. Twenty-five percent of respondents indicated they had been swimming, with the majority of respondents from Swift Island, and Lilly's Bridge Access Areas. Respondents reporting camping and picnicking were noted as the fifth most prevalent activity at Lake Tillery by 17 to 18 percent of all respondents. Other notable activities were water skiing (14 percent), sun bathing (13 percent), wildlife viewing and hiking (11 percent), and jet skiing (10 percent).

■ **Primary Reason/Activity for Visiting Lake Tillery**

Thirty-seven percent of respondents identified boat fishing as their primary recreation activity or reason for visiting Lake Tillery. Bank fishing was second (30 percent), followed by motor boating (15 percent) (Table 20). Boat fishing was reported most frequently by respondents at Swift Island and Lilly's Bridge Access Areas. For bank fishing, respondents from the Informal Access Areas reported the highest number of respondents. Respondents from Swift Island Access most frequently mentioned motor boating. The next most frequently mentioned primary activity was camping (6 percent), followed closely by hiking (5 percent), jet skiing (4 percent), picnicking (4 percent), and swimming (4 percent).

Hunting, sightseeing, river canoeing and sunbathing were identified as being the least common primary recreation activities or reasons for visiting Lake Tillery, each being identified by less than 1 percent of the respondents.

■ **Activities Participated in "Today"**

Respondents were consistent with previously reported primary activities and activities participated in the last 12 months, with boat fishing (34 percent) as the most frequently identified, followed by

bank fishing (31 percent), and motor boating (13 percent) (Table 21). Swift Island and Norwood Access Areas had the highest number of respondents reporting boat fishing activity. The largest number of respondents reporting bank fishing were from the Informal Access Area below the dam. The majority of respondents reporting motor boating and swimming came from Swift Island Access. Hunting was the least identified recreation activity, with only 0.1 percent of respondents identifying participating in hunting on the day they were interviewed.

Other activities that were identified by respondents as participating in or were going to be participating in at Lake Tillery were:

- Bass tournament;
- Bike riding;
- Attending Church;
- Dog swimming/training/walking;
- Duck hunting;
- Enjoying peace and quiet/Relaxation;
- Kayaking;
- Motorcycling;
- Pick up rocks for geology lesson;
- Sightseeing/Enjoying scenery;
- Tubing; and
- Fireworks.

■ **Night Time Activities**

About half (49 percent) of all respondents (n=1081) at Lake Tillery participated in night time activities. Night time activities are popular at all access areas surveyed, with 50 percent or higher of respondents reporting participating in night time activities at Norwood, Stony Mountain, Swift Island, and Tillery Access Areas. Respondents reported 42 to 47 percent participation in night time activities at Lilly's Bridge, Tillery Canoe Portage, and the Informal Access Areas (Table 22).

Additionally, the types of activities most popular by respondents at night were boat fishing, bank fishing and camping (Table 23). Boat fishing was mentioned by the majority of respondents from Norwood (78 percent), Stony Mountain (34 percent), Swift Island (56 percent), and Lilly's Bridge (50 percent); bank fishing was mentioned by the majority of respondents at Tillery Access (84 percent), Tillery Canoe Portage (68 percent), and the Informal Access Area (58 percent). Camping was the second most popular night time activity for respondents surveyed at Tillery Access and the Tillery Canoe Portage, and third for respondents located at the Stony Mountain Access Area.

Blewett Falls Lake

■ **Recreation Activities Participated in Over Past 12 Months**

Similar to Lake Tillery, visitors to Blewett Falls Lake enjoy a range of activities from boat fishing to camping, wildlife viewing to hiking, and a range of other water related opportunities. Of those surveyed (n=711), boat fishing was the most common recreational activity participated over the past 12 months at Blewett Falls Lake (60 percent) (Table 24). Bank fishing was the second most common activity participated in (55 percent). The third most common recreational activity at

Blewett Falls Lake was motor boating, with 26 percent of respondents participating over the past 12 months. A majority of those reporting motor boating were from the Pee Dee Access Area (n=72). Camping was the fourth most common recreation activity participated in within the past 12 months at Blewett Falls Lake. Twenty-five percent of respondents indicated they had been camping, by respondents mainly from the Pee Dee Access Area and Informal SR 1744 Site. Swimming was reported as the fifth most prevalent activity at Blewett Falls Lake by 22 percent of all respondents. Other notable activities were picnicking (15 percent), water skiing (11 percent), hunting (11 percent), sun bathing (9 percent), and wildlife viewing (9 percent).

■ **Primary Reason/Activity for Visiting Blewett Falls Lake**

The most frequent primary recreation activity/reason for visiting Blewett Falls Lake was bank fishing (41 percent), followed by boat fishing (40 percent) and motor boating (11 percent) (Table 26). Bank fishing was reported most frequently by respondents from Blewett Tailwater Access Area and the Informal Tailrace Access Site. Respondents from Pee Dee and Grassy Islands Access Areas reported the frequency for boat fishing, while respondents from the Pee Dee Access Area most frequently mentioned motor boating. Overall, the next most frequently mentioned primary activities were swimming (8 percent), followed closely by camping (7 percent), picnicking (5 percent), and wildlife viewing, jet skiing, and sunbathing (4 percent).

Hunting and water skiing were identified by 3 percent of respondents, and hiking by 1 percent of respondents. River canoeing and lake canoeing were identified as the least common primary recreation activities or reasons for visiting Blewett Falls Lake, by less than 1 percent of the respondents.

■ **Activities Participated in “Today”**

Again, similar to Lake Tillery, respondents at Blewett Falls Lake were consistent with previously reported primary activities and activities participated in the last 12 months. Bank fishing (37 percent) dominated as the most frequently identified activity, followed by boat fishing (35 percent), and motor boating (11 percent) (Table 27).

Blewett Access and the Informal Tailrace Access Areas had the highest number of respondents reporting bank fishing activity. The largest number of respondents reporting boat fishing and motor boating came from the Pee Dee Access Area. The majority of respondents reporting swimming came from Informal SR 1744 Access Area. Lake canoeing was the least identified recreation activity, with only 0.1 percent of respondents.

Other activities that were identified by respondents as being participated in or were going to be participated in at Blewett Falls Lake were:

- Motorcycling;
- Relaxing;
- Sightseeing; and
- Visiting family.

■ Night Time Activities

More than half (59 percent) of all respondents (n=615) at Blewett Falls Lake participated in night time activities. Night time activities were mentioned at all of the access areas surveyed, with at least 50 percent reporting participation. Respondents from the Informal SR 1744 and Grassy Islands Access Areas reported the greatest participation in night time activities, with 73 percent and 69 percent of respondents' participation respectively (Table 27).

Again, similar to Lake Tillery, the types of activities most popular by respondents at night at Blewett Falls Lake were boat fishing (54 percent), bank fishing (50 percent) and camping (35 percent) (Table 28). Boat fishing was the most frequently reported night time activity for visitors at the Pee Dee (53 percent), and Grassy Islands (40 percent) Access Areas. Boat Fishing was the second most reported activity by respondents at the Informal Tailrace Access (29 percent), Blewett Falls Canoe Portage (25 percent), and Blewett Tailwater Access Area(24 percent).

Bank fishing was the most popular night time activity reported by visitors at the Informal Tailrace Access (51 percent), Blewett Tailwater Access Area(50 percent) and Blewett Falls Canoe Portage (38 percent), and the second most popular activity reported by visitors from the Informal SR 1744 (30 percent) access area. Camping was reported as the most popular night time activity by visitors at the Informal SR 1744 Site (37 percent), and the second most popular activity reported by visitors at the Pee Dee (26 percent), Grassy Islands (26 percent) and Blewett Falls Canoe Portage access areas (25 percent).

1.1.2.6 Conditions Interfering with Recreation Experiences

To understand visitors' satisfaction with their recreation experience at the lakes, visitors were asked whether or not they experienced a specific condition at Tillery or Blewett Falls Lake that interfered with their recreation experience. Secondly, if they did indicate "yes", they were asked to indicate what condition (i.e., crowded conditions, limited access, improper disposal of litter or trash, lake water levels) interfered with their recreation experience and indicate whether their level of concern was low, medium, or high.

Lake Tillery

Overall, the majority of respondents on Lake Tillery (67 percent) did not experience conditions that interfered with their recreation experience (Table 29, Figure 5). Of those that did respond "yes" (33 percent), it appears that a majority of respondents from the Stony Mountain Access (59 percent) and Tillery Canoe Portage (53 percent) experienced conditions that did interfere with their recreation experience (Table 30). Other areas where some respondents felt specific conditions interfered with their recreation experience occurred at the Norwood Access (36 percent); Swift Island Access (35 percent); and Tillery Access (39 percent).

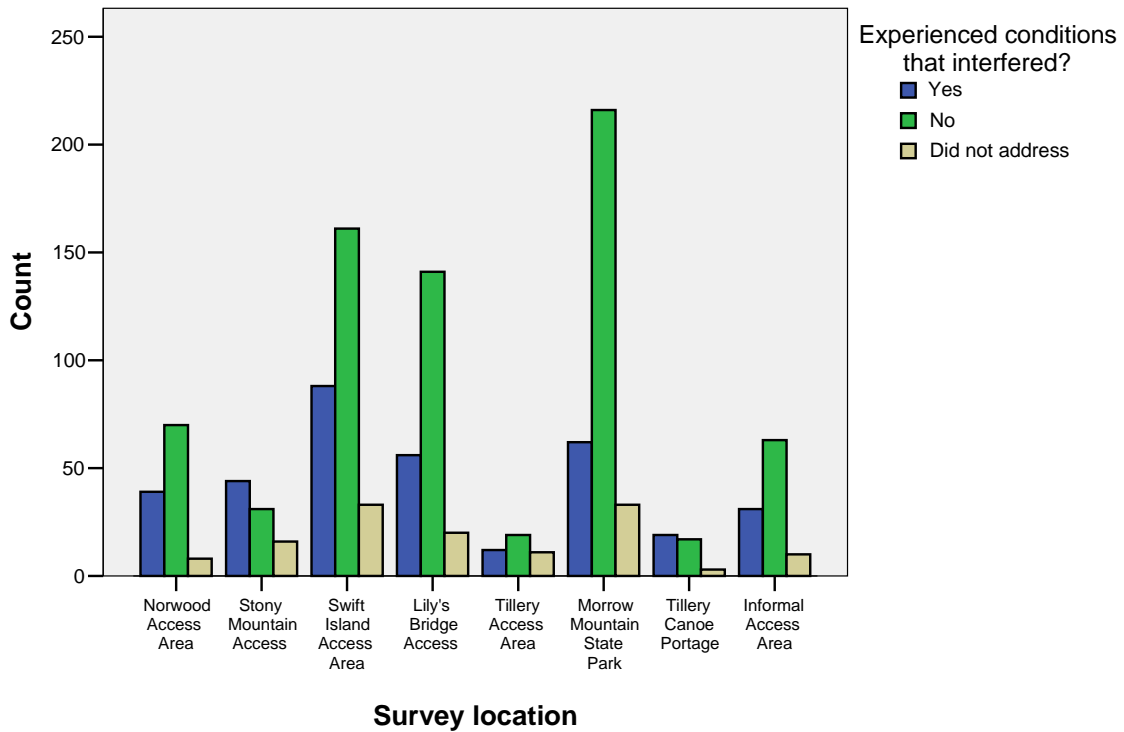


Figure 5 Lake Tillery - conditions interfering with recreation experience.

To further explore what conditions impacted visitors recreation experience at Lake Tillery, specific conditions were evaluated including crowding, limited access, improper disposal of litter/trash, and lake water levels.

■ **Concern for Crowded Conditions**

The majority of respondents did not have a concern with the crowded conditions at Lake Tillery (80 percent; n=967). Of those respondents that did express a level of concern (n=242), 62 percent expressed a low level of concern, 26 percent expressed a medium level of concern, and 12 percent expressed a high level of concern for crowded conditions (Table 31) (Figure 6).

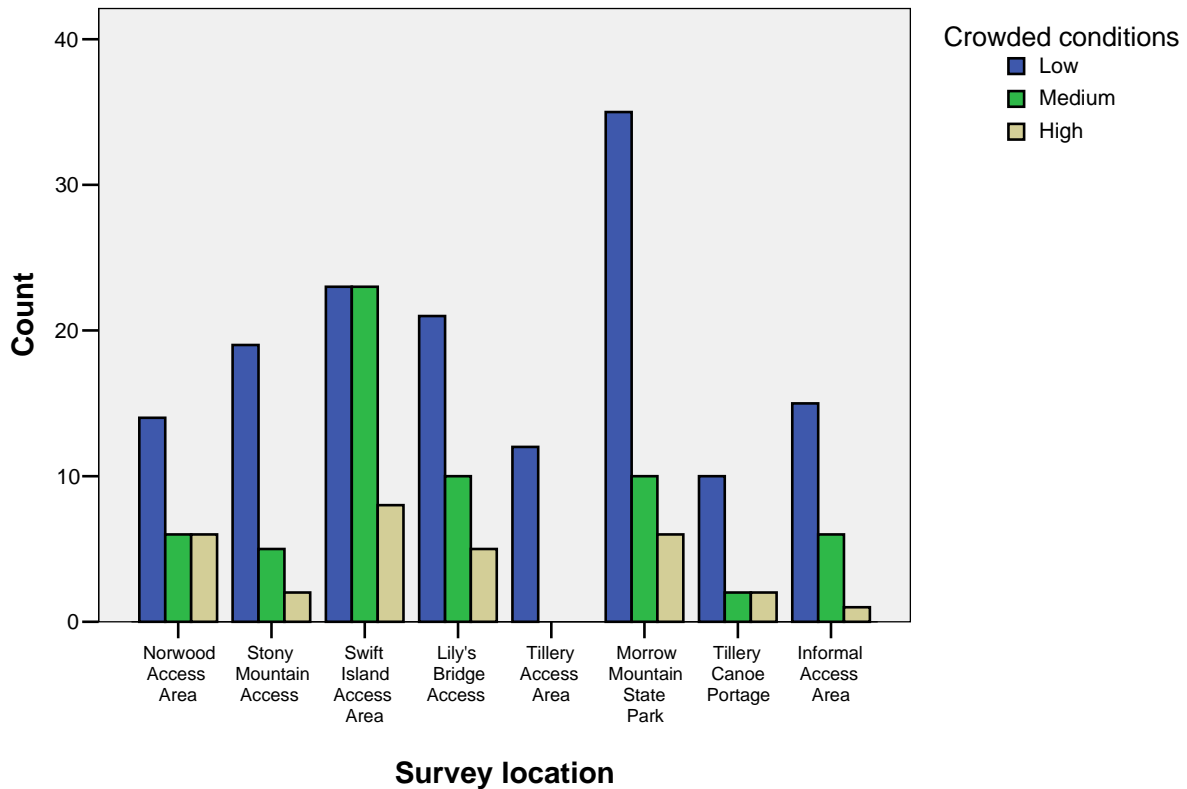


Figure 6 Crowded conditions at Lake Tillery.

When assessing level of concern for crowded conditions by location, of those respondents that did respond with some level of concern (20 percent; n=242), approximately half of the respondents from Norwood Access (n=12) and half of the respondents from Swift Island Access (n=31) had a medium to high level of concern for crowded conditions (Table 32). However, based on the total number of respondents, there is little concern for crowding at these sites.

Visitor Comments Regarding Crowding - “We love this lake and the reduced crowd it sees; that is why we travel here instead of fishing Lake Norwood. Weekend and holidays very crowded, pier starting to slope.”

■ **Concern for Limited Access**

With respect to level of concern over limited access to Lake Tillery, the majority of respondents did not express concern for limited access (82 percent; n=986). (Figure 7) Of those that did respond “yes”, a majority (74 percent) had low level of concern for limited access, 19 percent had medium level of concern, and 7 percent had high concern for limited access (Table 33).

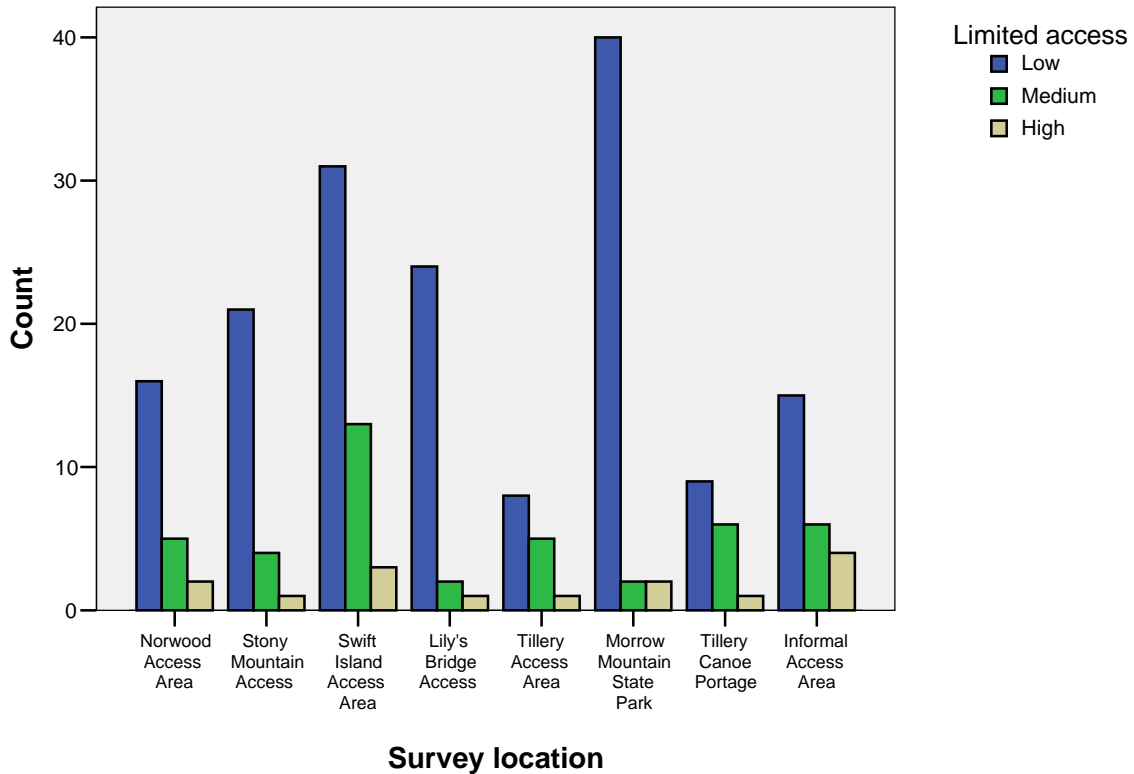


Figure 7 Limited access on Lake Tillery by location.

With respect to specific access areas on Lake Tillery, those that did not express a level of concern for access, the level of concern was low (74 percent) for the entire group of respondents at Lake Tillery. Approximately 30 percent to 40 percent of respondents expressed medium to high levels of concern with limited access at several survey locations, these were: Norwood Access, Swift Island Access (34 percent), Tillery Access (43 percent), Tillery Canoe Portage (42 percent), and the Informal Access Area (40 percent) (Table 34).

Visitor Comments on Limited Access – “Access is too soft and too little water; Improper parking of vehicles without trailers; Limited access for bank anglers; More access on east side of the lake; Not enough public access; Continue to have lake accessible to the public; More public access for bank fishing; Cut off boat access and jet ski access across road; No more restrictions on access; Handicap is not accessible most of the time; Young kids swimming and fishing at boat access a problem; Keep the park open later than 7 pm.; Need to maintain the road on a regular basis to keep gravel down; A sign should probably be placed at the entrance to Hydro Road; Clean up access so people can back up truck; More places to fish for handicapped; Access to the pump house should be made easier, users endanger themselves walking over rip rap. We need steps like Tuckstown Lake!; Asphalt is needed to cover the parking area and widen it; Mark designated parking spots at Swift Island to eliminate misuse of parking; Better parking from boaters; Parking lot wider; Ramp with more parking; Line parking lot at boat ramp; No parking down by water so people can put in boat; Need handicapped parking area.”

■ **Concern for Improper Disposal of Trash**

The majority of respondents did not express a level of concern for improper disposal of litter or trash (80 percent). Of those that did express a level of concern, 40 percent had a low level of concern,

followed by 35 percent having a high level of concern regarding improper disposal of trash (Table 35). The responses did vary by location and therefore are summarized to reflect location differences (Table 36).

With respect to specific access areas on Lake Tillery, of those that did respond to level of concern regarding improper disposal of litter or trash (20 percent; n=289), the majority had medium to high level of concern (Table 36). In general, the primary areas reported as areas of concern include the Norwood Access Area, Stony Mountain Access Area, Swift Island Access, Tillery Access and Tillery Canoe Portage Areas, and the Informal Access Area (Figure 8).

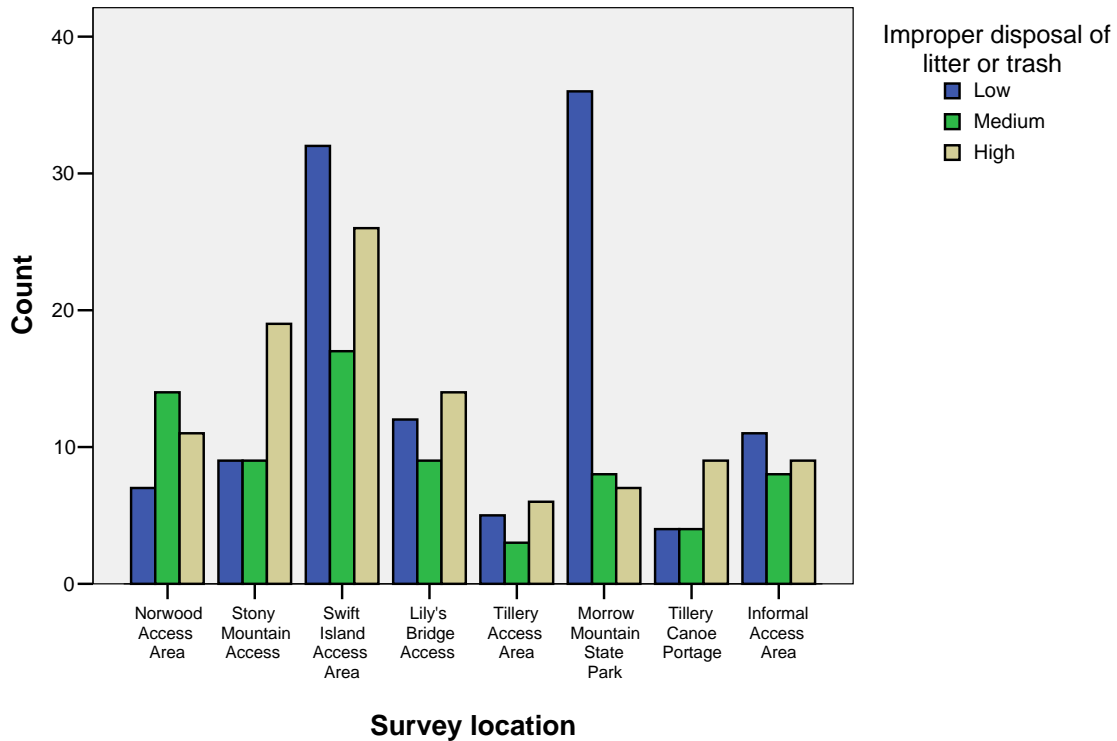


Figure 8 Level of concern for improper disposal of litter or Trash at Lake Tillery.

Visitor Comments Concerning Trash/Litter - “Too much trash left at boat ramp; add trash cans to access area; trash cans are needed to help keep launch clean; add trash cans for those that care about the lake and will use them; trash cans are needed to limit littering; trash people leave behind is very frustrating to look at!”

■ **Concern for Lake Water Levels**

Eight-two percent of respondents from Lake Tillery locations did not express a level of concern for lake water levels (Table 37). Of those that did, respondents were split between Low and Medium-High levels of concern. The highest levels of concern for water levels came from respondents surveyed at Norwood, Swift Island, and the Informal Access Area (Table 38, Figure 9).

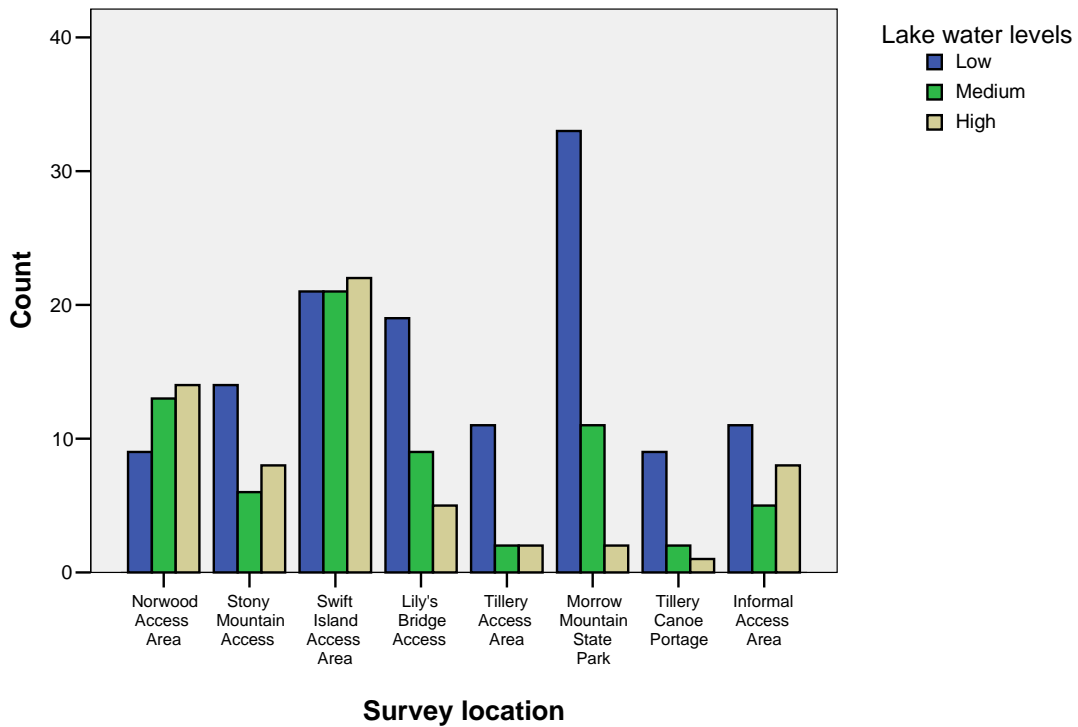


Figure 9 Level of concern for lake water levels at Lake Tillery.

Visitor Comments Regarding Lake Water Levels - “The lake level is better than years past for spawn; Couldn't get boat in water a couple of times because water too low, during environmental studies by Progress Energy; More accurate indication of water levels; Signs say water level will drop for 2 weeks but it has not; Dredge the area around Swift Island Dock because it is too shallow to use during periods of low water; Drop water levels only during weekdays; Plant operating condition - need to have better updates via telephone (hourly) - lake levels/river releases; Very good, stable lake levels; High water conditions interfered with recreation experience; Enjoy coming, very satisfied, would like to know when the water is discharging, so they can plan their trips for better fishing; Sound horn when water is released; Public needs a way to find out the pumping schedule so they can fish during generation; Keep lake at same level at all times; Need stable water level; Keep Lake levels up during spawning; Provide a schedule for water levels; Algae on the bottom of the lake is a concern; I have a concern for water levels for fish spawning April-May - don't pull water; Lake water levels during spawning seasons are a concern; Lake fluctuations-low levels. Don't like the water level too low!”

Blewett Falls Lake

Unlike Lake Tillery, respondents at Blewett Falls Lake (60 percent) did experience conditions that interfered with their recreation experience (Table 39, Figure 10). Relative to a specific site access area, a majority of respondents responded ‘yes’, including Grassy Islands (83 percent), Informal SR 1744 (72 percent), Informal Tailrace Access (66 percent), Pee Dee (60 percent), and Blewett Falls Canoe Portage (57 percent) (see Table 40). Forty-five percent of respondents at the Blewett Tailwater Access Area felt specific conditions interfered with their recreation experience.

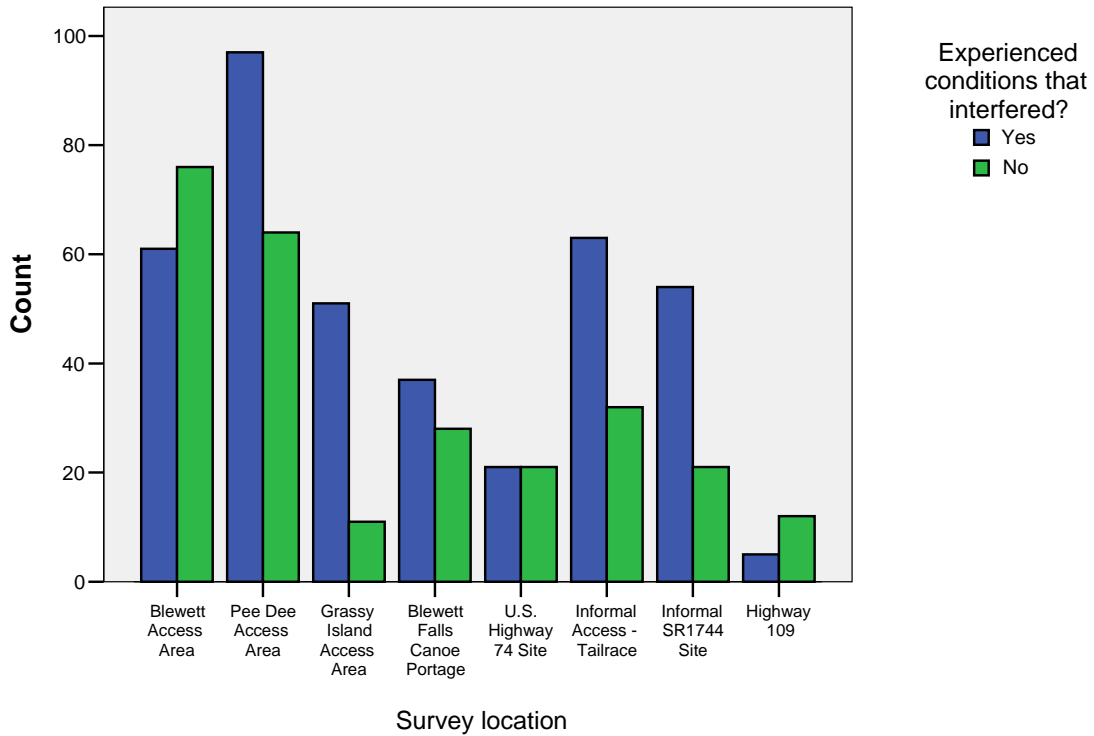


Figure 10 Conditions interfering with recreation experience at Blewett Falls Lake.

■ **Concern for Crowded Conditions**

The majority of respondents did not express a level of concern for crowded conditions (73 percent; n=521). Of those respondents that did express concern (n=190), 69 percent had a low level of concern for crowded conditions, followed by 23 percent responding with a medium level of concern and 8 percent having a high level of concern for Blewett Falls Lake (Table 41, Figure 11).

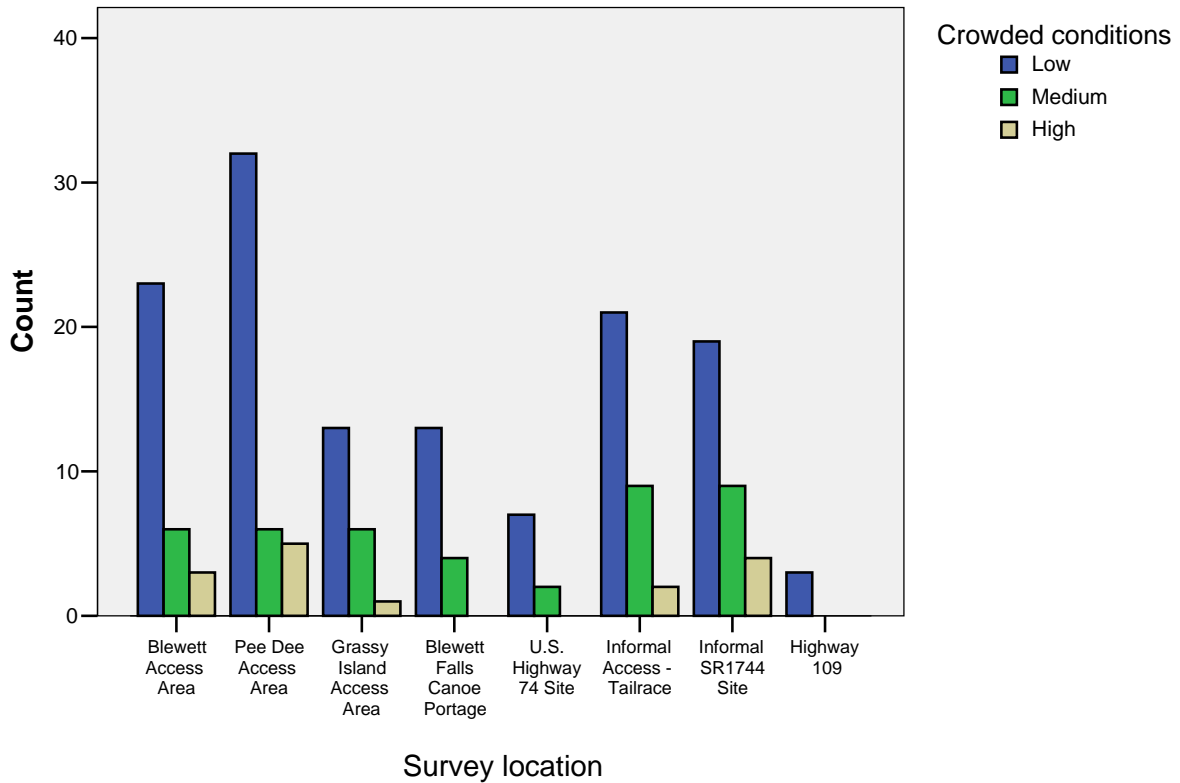


Figure 11 Level of concern for crowded conditions at Blewett Falls Lake.

When assessing level of concern for crowded conditions by access location, of those respondents that did respond with some level of concern (27 percent; n=190), approximately 40 percent of respondents from the Informal SR 1744 Site (n=13) and one third of the respondents from Informal Tailrace Access (n=11) and Grassy Islands Access Areas (n=7) had a medium to high level of concern for crowded conditions (Table 42). However, based on the total number of respondents, there seems to be little concern for crowding at these sites.

■ **Concern for Limited Access**

With respect to limited access to Blewett Falls Lake, the majority of respondents did not express a level of concern (71 percent; n=502). Of those that did respond “yes”, almost half (47 percent) had low level of concern for limited access, 29 percent had medium level of concern, and 24 percent had high concern for limited access (Table 43, Figure 12).

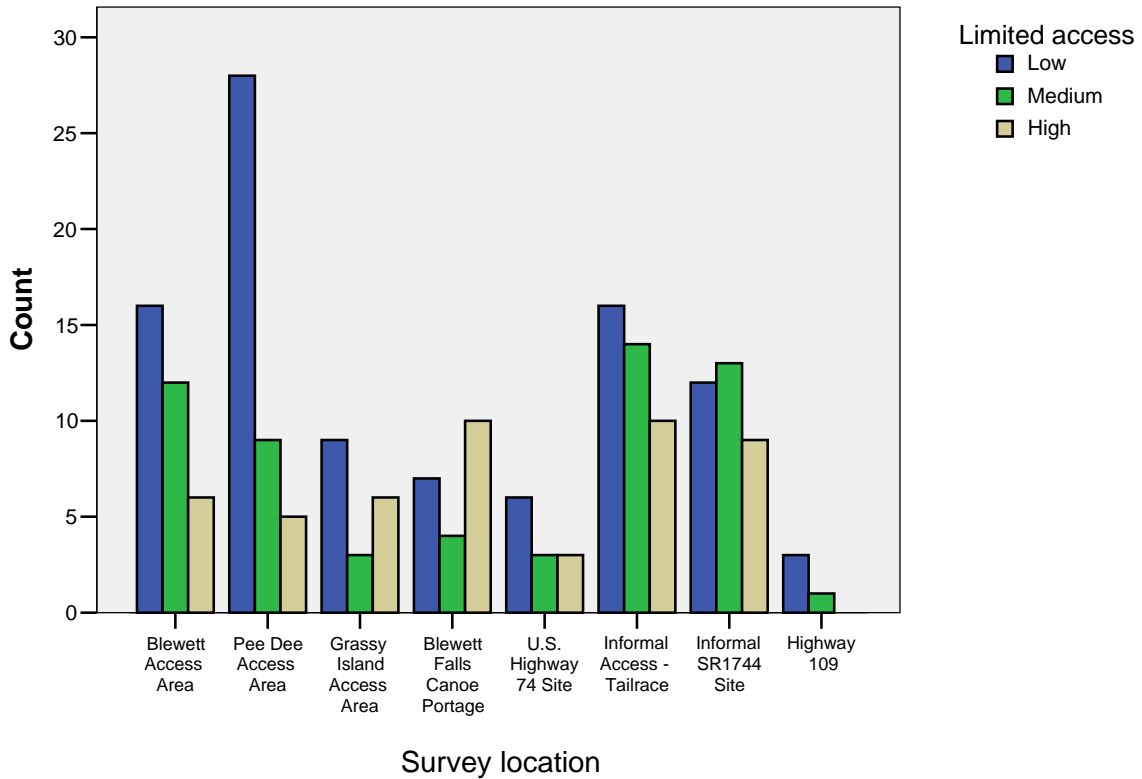


Figure 12 Level of concern for limited access on Blewett Falls Lake by location.

For those that did express a level of concern over concern for access, the level of concern was higher at Blewett Falls Lake than that at Lake Tillery for access areas. Over half of the respondents expressed a medium to high level of concern over access at Blewett Falls Canoe Portage (67 percent), Informal SR 1744 Site (65 percent), Informal Tailrace Access (60 percent), and Blewett Tailwater Access Area(53 percent). Half of the respondents expressed medium to high concern at Grassy Islands Access Area with 33 percent expressing medium to high concern at Pee Dee Access (Table 44).

Visitor Comments Concerning Limited Access – “Limited access - can't go where want to; Limited access - land between Blewett Falls Dam and 74 bridge privately owned now; Need better ramp at tailrace; Private ownership along river; People bring to many rods at times, interferes with access for other fisherman; Cars without trailers parking where trailer vehicles need to park; Boat launch near powerhouse taken away. Keep it open; If you (are) good fit the railing for (the) handicapped; Would like handicapped accessible fishing pier; More/better access; Stay open to the public; Need walkway for bank fishermen; Bank access should have gates open in summer and spring after hunting season - access roads are closed to all fishing unless you belong to hunt clubs; Open more access to the river section from 74 bridge to S.C. line and 109 bridge to the lake; Let people get closer to dam; Many of the old access roads are now closed to the public with gates; Have no problems with the lake and access to it; No access to river on Anson Co. side at river bridge; An additional well-maintained boating access on the Richmond County side is needed. Also, you need to open at least one more bank fishing access to reduce the pressure on what is here.”

■ **Concern for Improper Disposal of Litter or Trash**

The majority of respondents did not express a concern for improper disposal of litter or trash (65 percent). Of those that did respond, 23 percent had a low level of concern, 27 percent had a medium level of concern, followed by 50 percent having a high level of concern regarding improper disposal of trash (Table 45). The responses did vary by location and therefore are summarized to reflect location differences (see Table 46).

With respect to specific access areas, of those that did respond to the level of concern regarding improper disposal of litter or trash (35 percent; n=250), the majority had a medium to high level of concern (Table 46). Of the public access areas at Blewett Falls Lake, greater than 63 percent of respondents at Blewett Falls Lake had a medium to high level of concern for the improper disposal of litter or trash (Figure 13).

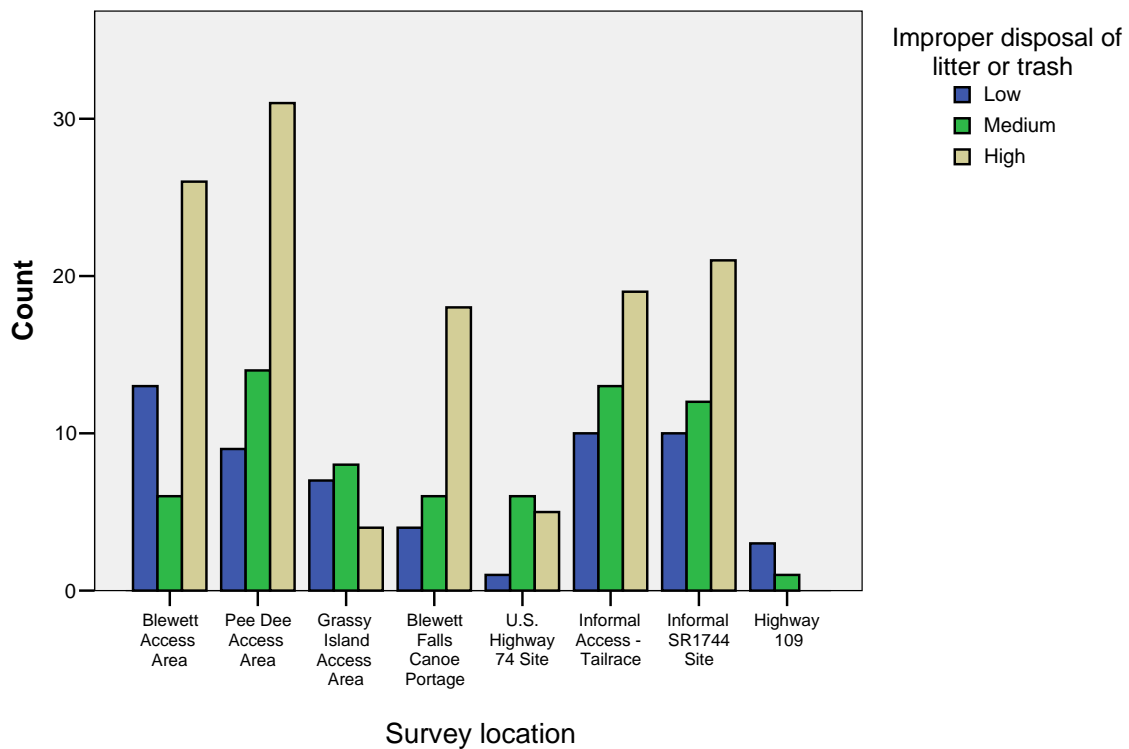


Figure 13 Level of concern for improper disposal of litter or trash at Blewett Falls Lake.

Visitor Comments Concerning Trash/Litter - “Add dumpster; Dumpsters should be provided; More supervision on persons who litter; Trash cans should be placed around the ramp; Need to regulate trash and those that litter; People should keep areas (campgrounds/access areas) litter-free (trash problem perception); I think there needs to be a little more facilities for trash disposal or someone who cleans the area; People won’t clean up trash; Dumpsters need to be provided at Informal; Keep it clean; Strict regulation needs to be placed on the users of this lake concerning trash and environmental use.”

■ **Concern for Lake Water Levels**

Fifty-four percent of respondents from Blewett Falls Lake locations did not express a level of concern for lake water levels (Table 47). Of those that did, respondents were split between Low-Medium and High levels of concern. The highest levels of concern for water levels came from respondents surveyed at Pee Dee, Grassy Island, Blewett Access, and the Informal Tailrace Access Areas (Table 48, Figure 14).

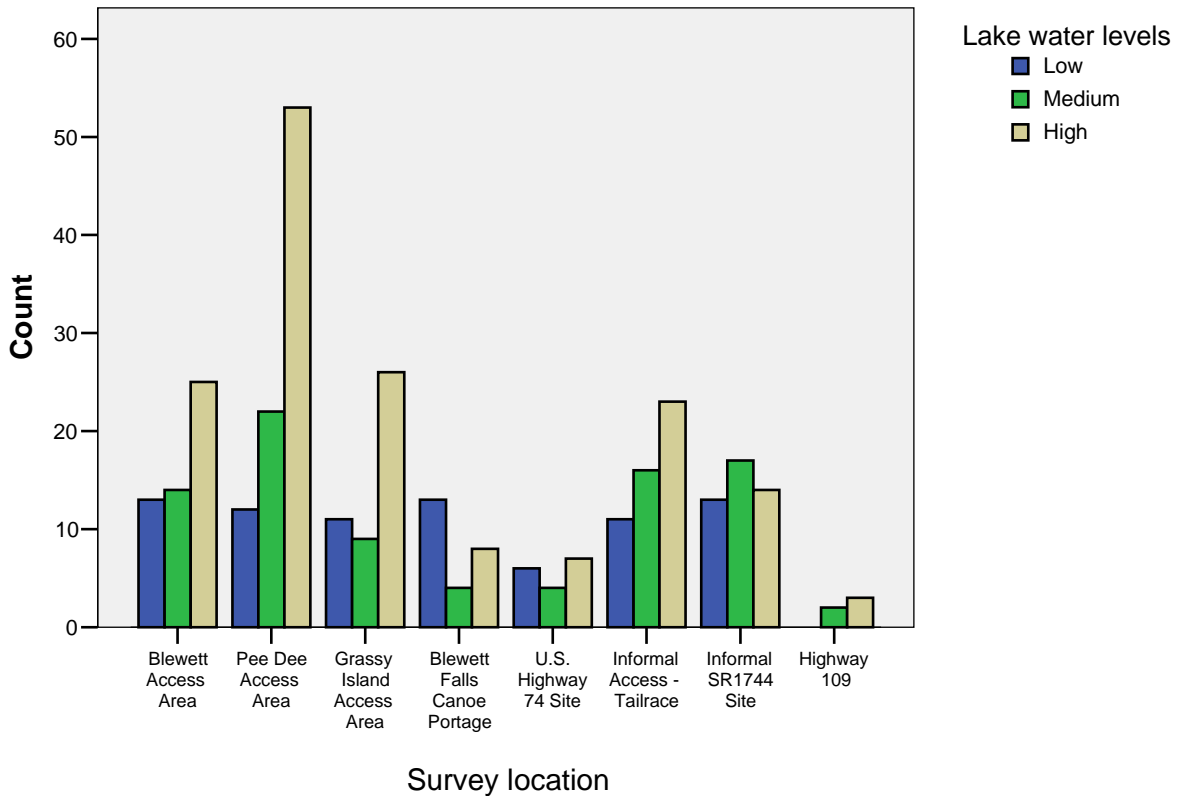


Figure 14 Level of concern for lake water levels at Blewett Falls Lake.

Visitor Comments Concerning Lake Water Levels - “Very unhappy with water levels; hard to put in anywhere at lake when water is down; Water stays low or medium; Water too low; People getting stranded getting to camp; more access points (one's that can get to under low water); River water levels stranding boaters; Need to run some water all the time; Would like stable lake levels on weekends; Great lake, needs higher water levels more often and better ramps during low water levels; Stop fluctuating water levels; Keep water levels the same; Water release schedule; Raise water levels; Raise water levels and keep them up; Keep water up; Reduce water level fluctuation; Control the dropping of water during crappie spawn season; Lake levels have been low recently-during crappie spawn; Make more accurate lake level recordings; Changing water levels drastic on Blewett Falls but not on Tillery, live closer to BF, why is there a difference in levels? Crappie beds left high and dry; The water levels at Grassy Islands Access create too many problems for fishermen who cannot use this access; Fluctuating lake levels affect boating fishing; Lake level fluctuations affect fishing and boating; Don't fluctuate lake; Keep enough water in Mountain Creek to get to the main channel of the lake; Jerking water levels up and down, messes up crappie fishing. Tillery stays stable while Blewett goes up and down - affects spawning fish; Fewer fish due to fluctuating water levels; less water level fluctuation so can get out of launch area to river; Water levels at this access fluctuate to extremes and often the water is too low for boaters to use; Leave enough water in

Mountain Creek for the access area; Experience low water frequently; Stop fluctuating the water so much; 45-50 percent of the time I want to use this access point the water is too low to put a boat in; Maintain water levels during spawning; Don't blow siren anymore for warning - need to give notice; In the spring the water flow in the river should be regulated to allow anadromous fish the correct flow they need for spawning; Need telephone number to know about generation levels and boating access - also something about river levels - not computer literate; Post a phone number for people to call to check if plant is generating; When the water level is down it is impossible to use this access and area of the river, the ramp doesn't meet the water; Regulations should be placed to ensure smaller water level changes; Water levels at Blewett and below dam fluctuate levels that harm eggs after spawn. Also makes for poor fishing with levels that differ from day to day."

1.1.2.7 Visitor Perceptions of Crowding

Lake Tillery

■ **Crowding at Lake Tillery**

Seventy-four percent of respondents addressed the question their perceptions of crowding at Lake Tillery (Table 49). Of these respondents, 57 percent indicated that they thought the Lake was “not crowded”, 37 percent indicated that the level of crowding was “acceptable”, while 7 percent indicated that they thought the Lake was “very crowded”. Table 50 outlines the perceived level of crowding by respondents access location (Figure 15).

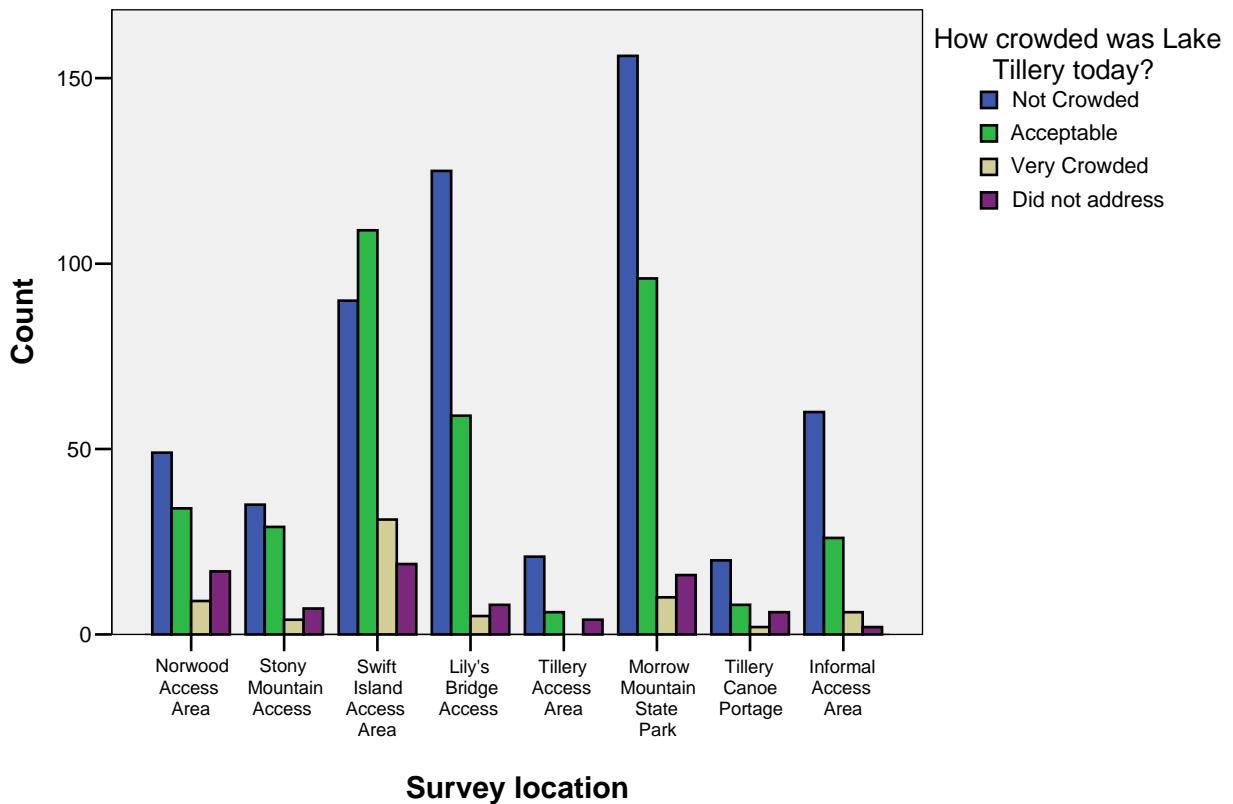


Figure 15 Crowding on Lake Tillery.

■ **Crowding at Access**

The majority of respondents (95 percent) did not perceive access points as crowded (Table 51). Of these respondents, 60 percent indicated the access points were “not crowded” at all, while 35 percent perceived the level of crowding as “acceptable”, with 5 percent indicating that access points at Lake Tillery were “very crowded”. Table 52 outlines respondents perceived level of concern of crowding per access area (Figure 16).

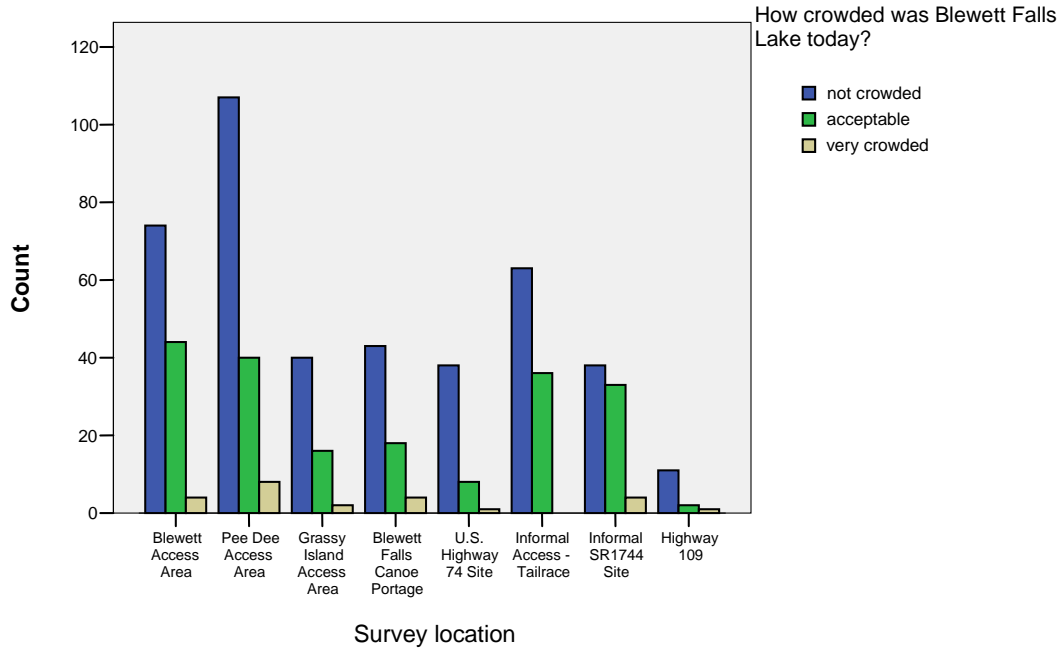


Figure 16 Lake Tillery crowding at access.

Blewett Falls Lake

■ **Crowding at Blewett Falls Lake**

The majority of respondents surveyed did not perceive the Blewett Falls Lake as “very crowded”. Ninety percent of respondents addressed the question of their perceptions of crowding at Blewett Falls Lake (Table 53). Of these respondents, 65 percent indicated that they thought the Lake was “not crowded”, 31 percent indicated that the level of crowding was “acceptable”, while 4 percent indicated that they thought the Lake was “very crowded”. Table 54 outlines respondent’s perceived level of concern for crowding at the lake by access area (Figure 17).

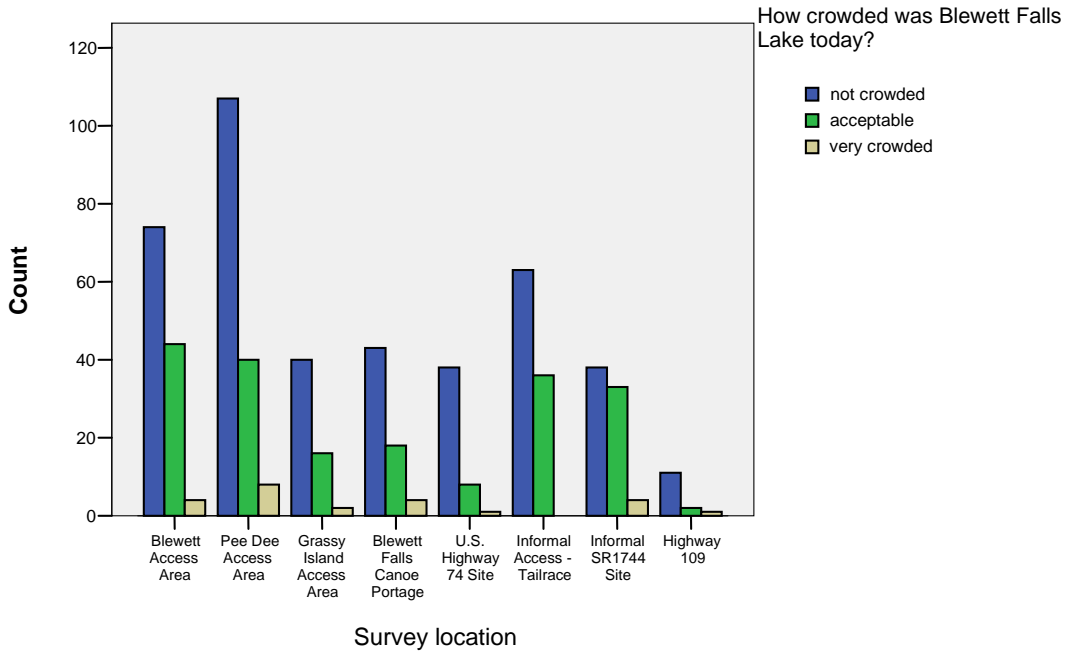


Figure 17 Visitor perceptions of crowding on Blewett Falls Lake.

■ **Crowding at Access**

The majority of respondents (93 percent) addressed the question regarding crowding at access points on Blewett Falls Lake (Table 55). Of these respondents, 65 percent indicated the access points were “not crowded at all”, while 31 percent perceived the level of crowding as “acceptable”, with 4 percent indicating that access at Blewett Falls Lake were “very crowded”. Table 56 outlines the level of concern for respondents’ level of crowding at access by survey location (Figure 18).

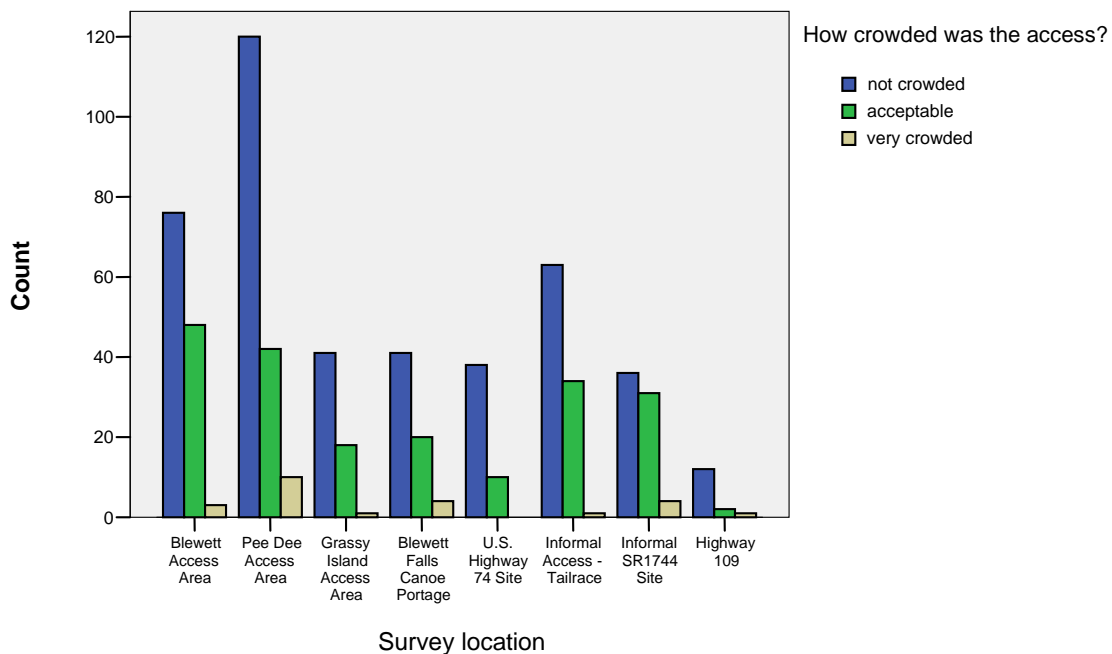


Figure 18 Perceptions of crowding at access locations at Blewett Falls Lake.

Visitor Comments on Crowding - “Very crowded on holidays and weekends.”

1.1.2.8 Facility Conditions

Visitors were asked to provide their opinion of the condition of facilities, including boat ramps and docks, the parking lot, marina, campgrounds, toilets, fishing piers and signage.

Lake Tillery

■ **Condition of Boat Ramps/Docks**

The majority of all respondents at each access area felt that the boat ramps/docks were in “very good” to “acceptable condition” (Table 57, Figure 19). Ten percent of respondents from the Norwood and Informal Access areas felt that the boat ramp/docks were “inadequate”, with all remaining responses “not adequate” reporting less than 10 percent.

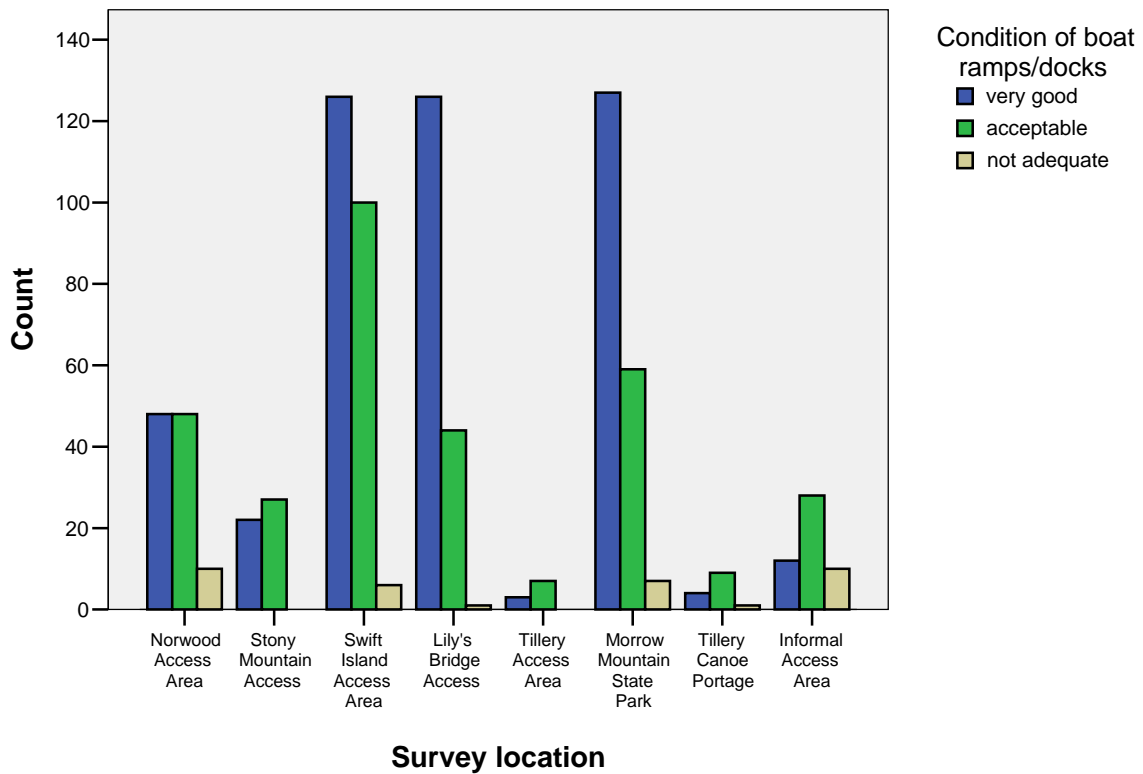


Figure 19 Lake Tillery - condition of boat ramps/docks.

Visitor Comments on Boat Ramps - “Ramps, parking lot and marina could use some updating; No wake buoys to close to ramp; Couple more ramps three wide; Widen boat ramps; One of the best boat ramps of all the places I fish; Repairs of ramps; Like state park boat ramp because they feel safer (truck, trailer); Fix boat ramp at hydro; Add a fishing pier; Add a fishing pier and trash cans for bank fisherman along the point at Stony Mountain; Docks need cleats for tying off, and a dock for tying boat away from main ramp should be added; Wish they wouldn't have taken the dock here at Lilly's Bridge out; Add fishing pier at 1740 and 1745; Pier could be straight out; Please fix the pier now that it has washed away.”

■ **Condition of Parking Lots**

In general, respondents visiting Lake Tillery felt that the parking lots were in “acceptable” to “very good” condition (Table 58, Figure 20). The Tillery access area was the only area where more than 10 percent of respondents felt the parking lot was “not acceptable”, the rest of respondents at various access points had less than 10 percent and generally felt that the parking areas were “acceptable” to “very good”.

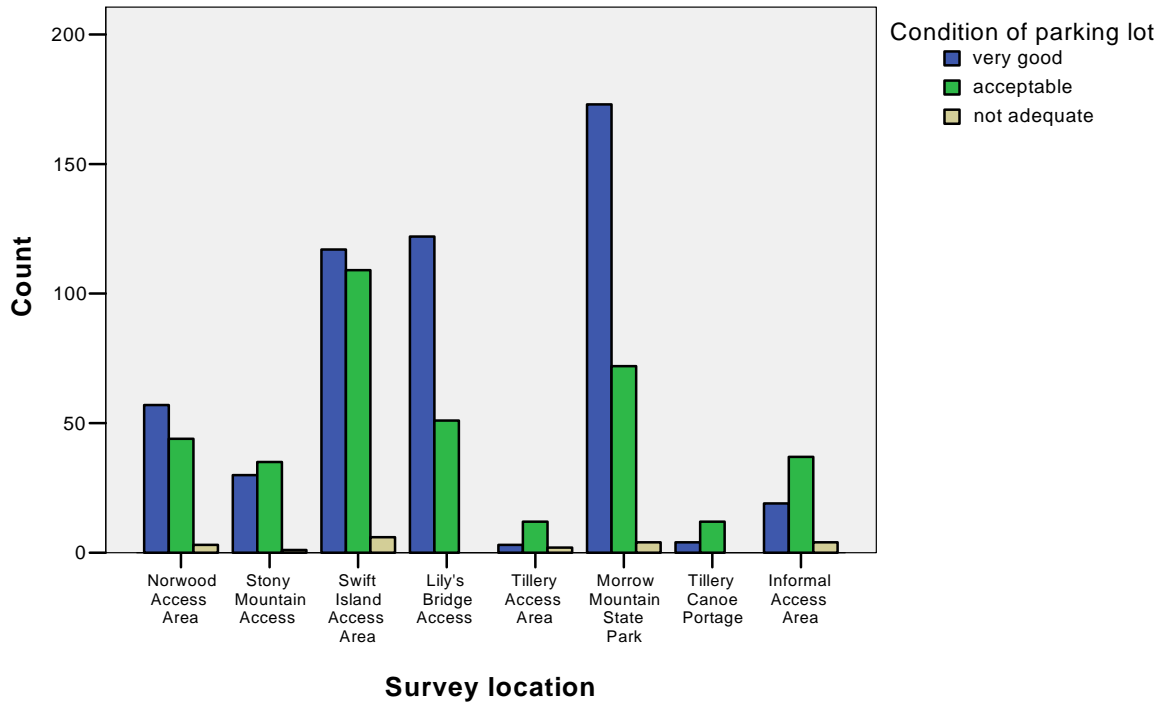


Figure 20 Lake Tillery - condition of parking lots.

■ **Condition of Marinas**

The majority of respondents from all access areas at Lake Tillery felt the Marinas were “adequate” to “very good” (90 percent or higher) (Table 59, Figure 21).

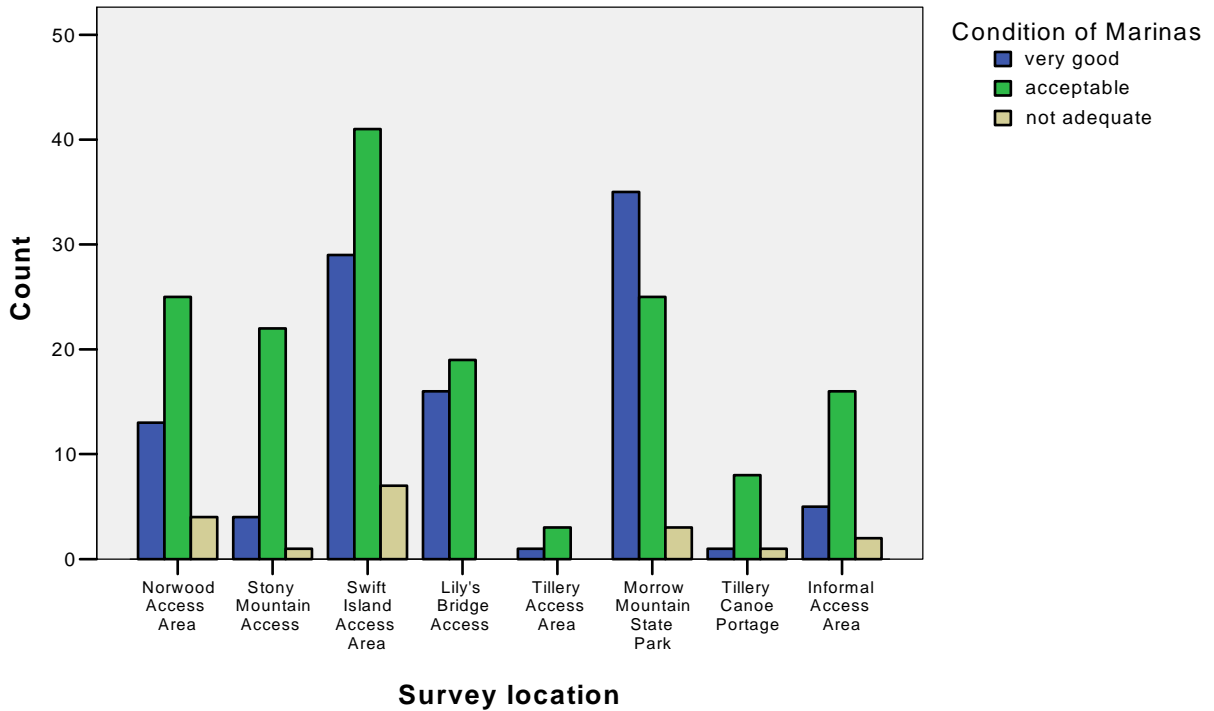


Figure 21 Lake Tillery - condition of marinas.

■ **Condition of Campgrounds**

The majority of respondents (90 percent or greater) from the Norwood, Lilly’s Bridge, Tillery, Tillery Canoe Portage, and Informal Access areas felt that the campgrounds at Lake Tillery were “adequate” to “very good”. Stony Mountain and the Swift Island Access were the exceptions, with 17 percent of Stony Mountain respondents and 11 percent of Swift Island respondents identifying campgrounds as “inadequate” (Table 61, Figure 22).

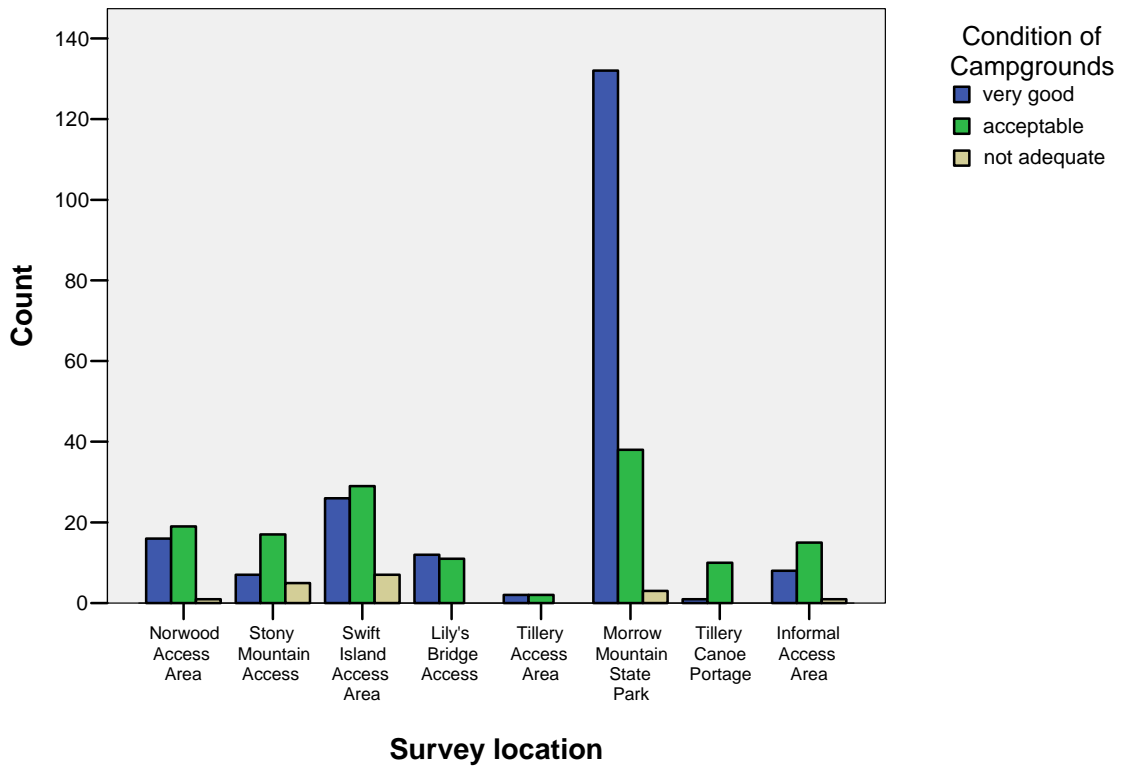


Figure 22 Lake Tillery - condition of campgrounds.

■ **Condition of Toilets**

The majority of respondents (50 percent) from the Lilly’s Bridge Access felt the toilet facilities were “not adequate”, with 46 percent identifying them as “acceptable”, and 5 percent as “very good”. The majority of respondents at the Stony Mountain Access felt the toilet facilities were “acceptable”, with 41 percent identifying the toilet facilities were “not adequate”. Over 35 percent of respondents at the Norwood and Swift Island Access areas felt that the toilet facilities were “not adequate,” with the majority stating they were “acceptable”. The majority of respondents at Tillery Access Area (73 percent) and Informal Access (62 percent) felt the toilets were “acceptable”, with just over 27 percent and 26 percent respectively stating that they were “not adequate”. And, the majority of respondents at the Tillery Canoe Portage (83 percent) felt the toilet facilities were “acceptable”, with a small percentage identifying them as “not adequate” (17 percent) (see Table 61, Figure 23).

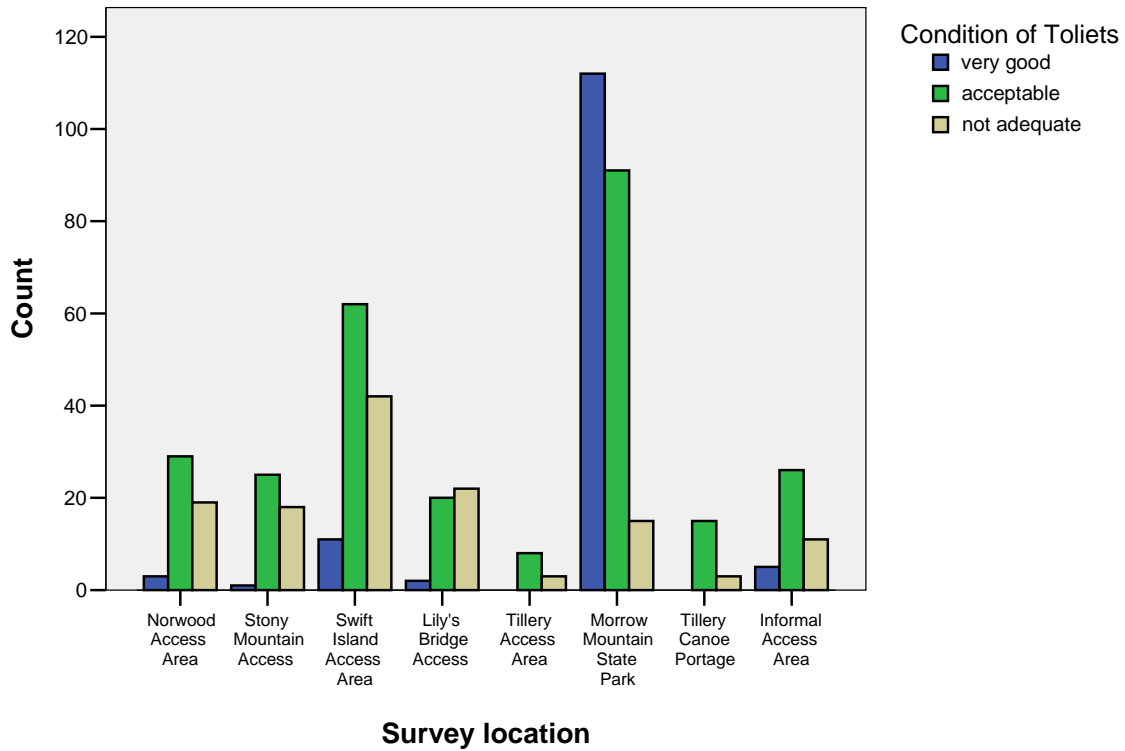


Figure 23 Lake Tillery - condition of toilet facilities

Visitor Comments on Condition of Toilet Facilities - “Need toilets at Powerhouse; Add bathrooms; Add Port-A-Johns and water fountain at Blewett Access for boaters and fishermen; Bathrooms and water fountain; Bathrooms; Most all lakes that I have been to have some form of a restroom and this facility should as well; Need to have a way to get clean water and restroom for man and women; Would like to see bathroom installed here; Help with toilet facilities.”

■ **Condition of Fishing Piers**

In general, the condition of fishing piers reported by respondents at the Swift Island Access, and Informal Access areas appear to be in “acceptable” to “very good” condition (Table 62, Figure 24). Approximately 40 percent at both the Stony Mountain Access (39 percent) and the Tillery Access areas (43 percent) felt that the fishing piers were “not adequate.” Nearly one-third of respondents at the Norwood Access (28 percent) felt the fishing piers were “not adequate”, as well as nearly 20 percent of those responding at the Tillery Canoe Portage. The remaining respondents from the Swift Island, Lilly’s Bridge, and Informal Access areas identified the fishing piers as “very good” or “acceptable”.

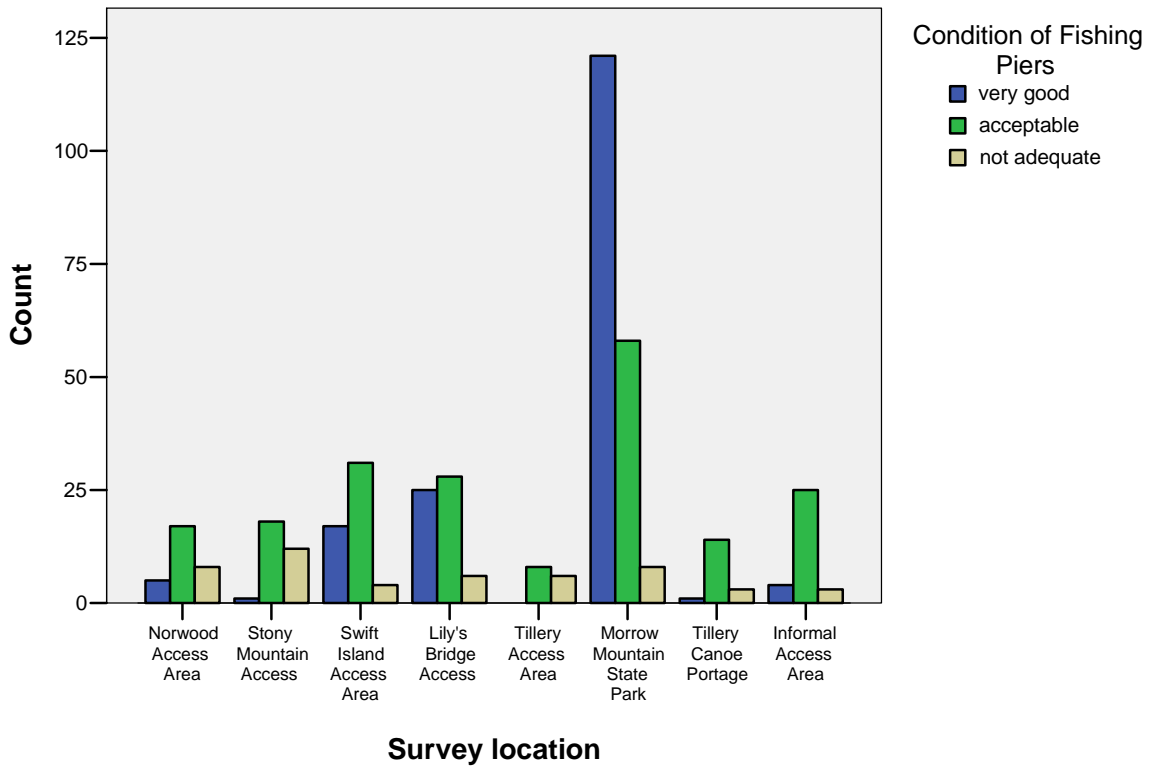


Figure 24 Lake Tillery - condition of fishing piers.

■ **Signage**

A majority of respondents (90 percent or greater) from Norwood, Stony Mountain, Lilly’s Bridge, and Informal Access areas felt there was “acceptable” to “very good” signage. A small number of respondents from Swift Island (10 percent), Tillery Canoe Portage (14 percent), and Tillery Access Area (21 percent) felt as though signage was “not adequate” (Table 63, Figure 25).

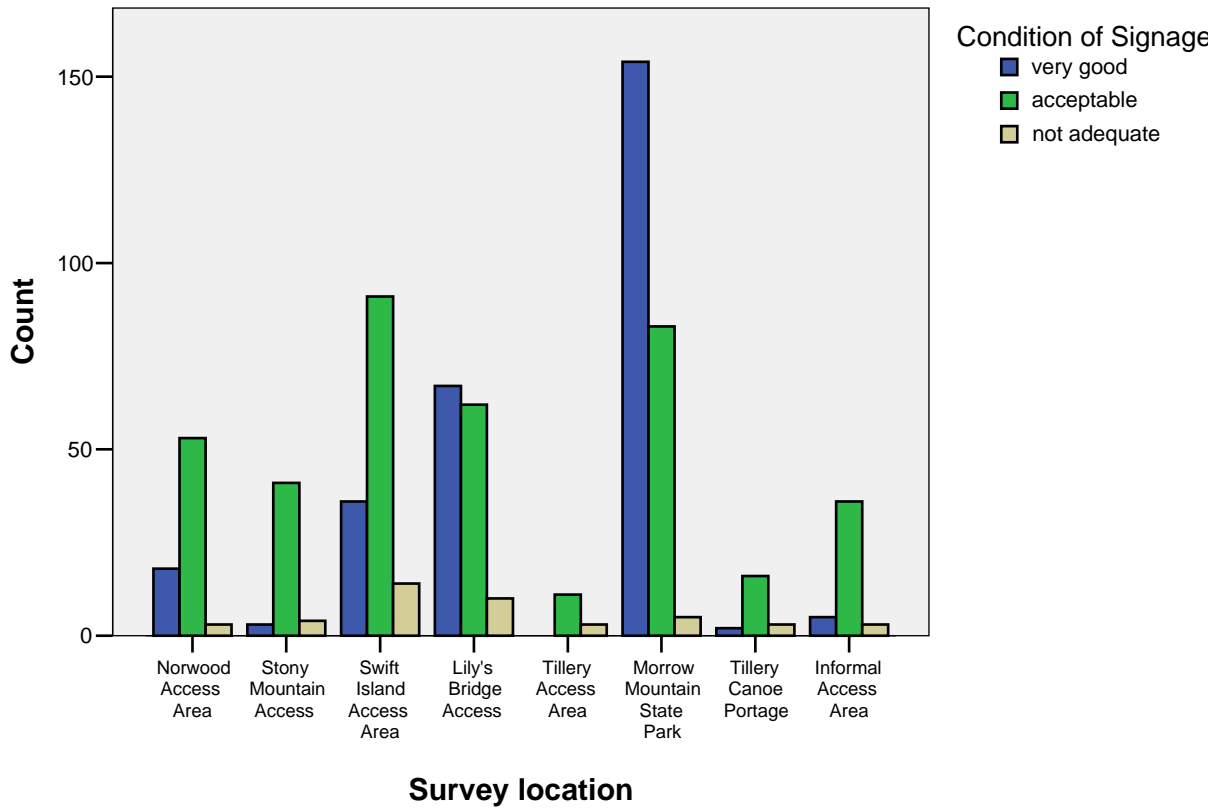


Figure 25 Lake Tillery - condition of signage.

Visitor Comments on Signage - “Need more signs preventing littering; Better signs about fishing; Bigger sign on main road; More danger sign buoys around points; Need signs for people not to block access ramp and park in parking lot; Yield sign is dangerous and confusing; Maps with trails are good; Some signs on hiking trail hard to read and hard to find; Could have used a good map of lake showing depths - could not find one; Educational signs to encourage respect and care of park.”

■ **Issues of Conflict and Concern**

Recreationists at Lake Tillery were asked to “identify any user conflicts [they had] today with other recreational users”. In addition to conflicts with recreation users, respondents mentioned areas of concern with other conditions related to facilities. The primary areas of conflict mentioned were focused on motor boaters (behavior, noise, and numbers), jet skiers (age of users, irresponsible behavior, and noise), and noise from unruly campers. Other areas included the environment and management issues (time of park closures, provision of amenities such as bait, port-a-johns, trash cans), and noise from unruly campers. (For a summary of the frequency of types of comments, see Table 64.)

Summary of Visitor Conflict Comments at Lake Tillery

| | |
|---|---|
| <i>General Visitor Behavior:</i> | Ramp etiquette; Summer is crowded. Rude impatient people. Crowded camp sites! Noise--loud campers! Lots of loud party goers and rude campers. Rude impatient people! Neighboring fisherman is stealing all fish. Police said no camping... |
| <i>Conflicts with Motorized Use-Boats:</i> | Boat skiers/jet skiers and crowding in narrow arms/coves; boaters are not respectful of bank users and not respectful of bank fishers; boaters throw wake too close to shore; boaters are coming too close to shore where we are trying to fish; boats and jet skis are a conflict; no regard for no-wake zones; power boat wakes are a problem; speeding motor boats are a conflict; A motorboat sunk our boat with a high wake; too many motor-boaters; Bass fisherman in tournaments with no boating etiquette! |
| <i>Conflicts with Motorized Use-Jetski:</i> | Jet skiers - boat navigation problems; they get into cove and around fisherman; interfere with navigation; ride boat waves and are nuisance to boaters; nuisance; they are a problem; bother fishing; they are in the backwater areas; close to bank; too close to others; too close to fisherman; right in front of the fishing pier; need better regulation, particularly with children in the water; no concern for others; interfere with fishing and boating; there are too many jet skiers; jet skiers are inexperienced; young riders on jet skis are a problem; too close and too fast; coves are too crowded by jet skis - no respect for people who live there!; Jet skis are a big problem; Jet skis & pleasure riders limited to main channels so they can enjoy the lake & not interfere with fishermen; Wildlife officer attitude against jet skier; Jet skis need strict regulation on age and experience; Jet skis need some form of user regulation and needs to be enforced; Jet skiers need a designated area to keep them away from backwater; Wave runners need regulation; Kids ride them and do not understand rules; Too many under-age drivers on jetski (<14); Landing just for jet skis; Lack of respect by some users, primarily jet skiers, getting too close to banks and going too fast; Noise is a concern - too many jet skis; Concern with jet skies; Regulating jet skies; No jet skiing allowed; Increase the age of users; Annoyed with jet ski use on lake; Jet skiers need regulation to limit noise; No jet skis; Children on jet skis; Acceptable during the week but not on weekends; Jet skies really bother me a lot!!! |

Additional Visitor Comments and Concerns:

| | |
|----------------|--|
| <i>General</i> | A place of pleasure and good wildlife; All facilities are in good condition and well maintained; Always nice; As a family we absolutely love Morrow Mountain State Park and the public opportunities it offers; As far as we can tell being here the first time, nice lake and well managed; Beautiful area; Favorite lake to use, that's why we come here; For my first I am really impressed by the facilities and their conditions; For the most part I would have to say the lake is managed well overall; Great place for the kids to enjoy nature; Great place to visit - we love the pier; Great spot to kayak; I really enjoy this lake and we come here to avoid Badin Lake on the weekends; I really love the lake and enjoy using it. I come here instead of Blewett Falls because the water level stays constant; Love the lake - "Excellent job keeping the lake and campground clean"; Morrow Mountain and Lake Tillery are beautiful; I really enjoy using the resource; Most beautiful I have been to; Much cleaner and nicer than Badin Lake, etc; Park employees are helpful and do a good job; Park staff is good including lifeguard, clean park, and family friendly; Progress does good job of informing recreation users of lake, beach and facilities; Really enjoyed the lake - it is a nice change of pace from Lake Norman; We come from Matthews because this lake is nicer and more enjoyable than other local lakes; We love the lake - it has always been in excellent condition. |
|----------------|--|

| | |
|---------------------------------|---|
| <i>Facilities-Amenities</i> | Restrooms are needed; We need a better boat ramp; more bank access to the lake; more trash cans; access to bait and supplies; Port-a-Johns; plan for camping with more seclusion; Picnic tables at access area; Great place but would be nice to have picnic and restroom facilities; Playground for kids, swimming area; Public picnic areas and access for people that don't live on the lake; Canoes should be available longer; Pool too expensive for a large family; Would like food and live entertainment; Add restaurants around lake; Bait shop at local access sites would be nice; Need restaurants; More stores for tackle around lake; Sell bait here; Open bait shop for convenience; Swift Water, need a store, bait, ice etc.; Lights in parking; Lights for security and cameras; Parking lot needs lights; Private additional lighting for night time usage; Additional lighting around access for night fishing; It would be nice if lights were added, we have friends that have trailers and trucks and fish at night; Need light for boat ramp; Need light at boat ramp; Put up lights for fishing at night and canoe portage. Also open the road to allow for vehicles further down hill. |
| <i>Fishing/ Fish Stock</i> | Progress Energy needs to put fish in the lake; Consider restocking large mouth bass due to people taking too many smaller fish; Lake is over fished - too many tournaments; Slot limit on bass to limit over catching, since the population around the lake has increased the fish have dropped off; Annual restocking of the lake; Fishing has really dropped in the past two years; Need more public fishing areas for bank anglers; Quit stocking stripers (striped bass) and stock crappie; Stock up on game fish. |
| <i>Law Enforcement/Security</i> | More law enforcement on lake especially for jet skiers; Too much drinking and shooting guns on weekend; More game wardens on lake - never see any; More regulation and patrol by wildlife and law enforcement; Jet skis need strict rules around users. |
| <i>Navigation</i> | Stumps in lake need to be marked better; We are new to the lake and noticed some hazardous debris; Navigation buoys for restricted coves; Some of the dangerous rocks and trees upstream aren't marked and can be potential problems for boaters. |
| <i>Maintenance</i> | Mow grass around bank; Grassy area needs to be cleaned up for navigation; Stumps on the way to main channel; Need to mark trees upstream; Mark rocks and obstructions better in the upper part of the lake; Clear some brush to make better bank access. |

Blewett Falls Lake

■ **Condition of Boat Ramps/Docks**

The majority of all respondents at each access area felt that the boat ramps/docks were in “very good” to “acceptable” condition (Table 65, Figure 26). Twenty-seven percent of respondents from the Informal Tailrace Access area, and 17 percent of respondents from the Blewett Falls Canoe Portage area felt that the boat ramps/docks were “inadequate”. Ten percent or less of the respondents from the remainder of the access areas felt that the condition of the boat ramps/docks was “inadequate.”

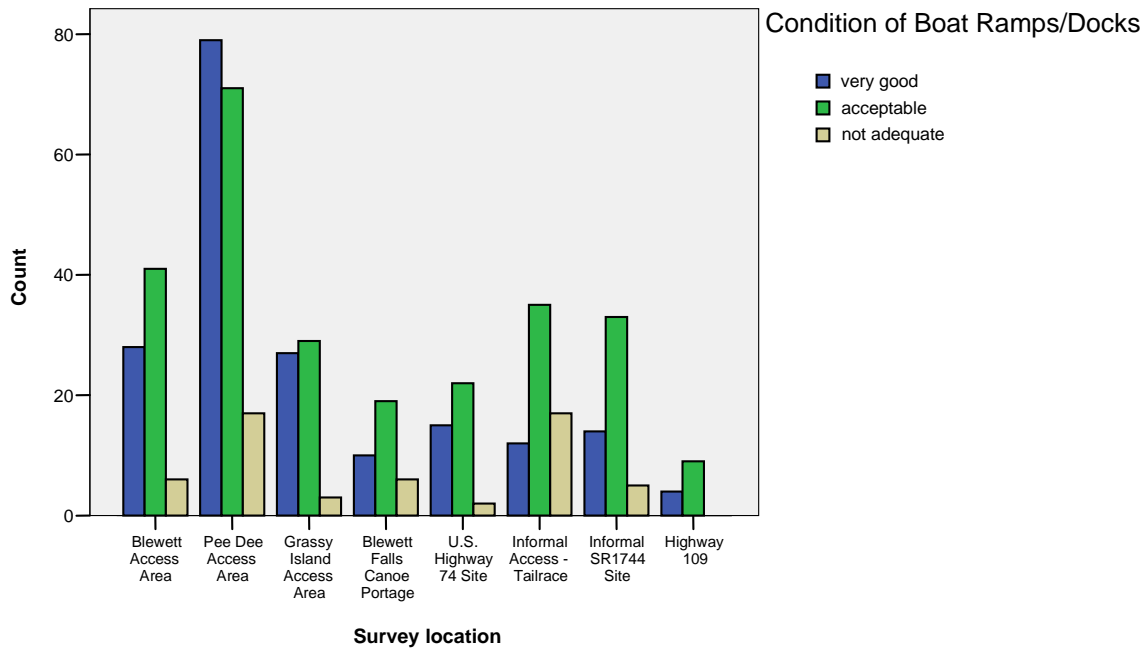


Figure 26 Blewett Falls Lake - condition of boat ramps/docks.

Visitor Comments Concerning Condition of Boat Ramps/Docks - “Extend the concrete of the boat ramp for low water periods at Pee Dee ramp; Add Richmond Co. boat landing; Boat ramp is too steep; Boat ramp drinkers - dangerous - particularly up at informal R1744 access; Need to grade boat ramp; Right hand ramp at Pee Dee Access drops off because of a hole in the ramp; Boat ramp here is steep and cars slip on all of the gravel; Ramp improvements.”

■ **Condition of Parking Lots**

Overall, 92 percent of respondents visiting Blewett Falls Lake felt that the parking lots were in “very good” to “acceptable” condition (Table 66, Figure 27). Twenty-one percent of respondents at Blewett Falls Canoe Portage access area, 15 percent at Informal Tailrace Access area, and 14 percent at Informal SR 1744 Site felt that the parking lots were “not acceptable.” Less than 10 percent of the rest of the respondents felt that the parking lots were “inadequate.”

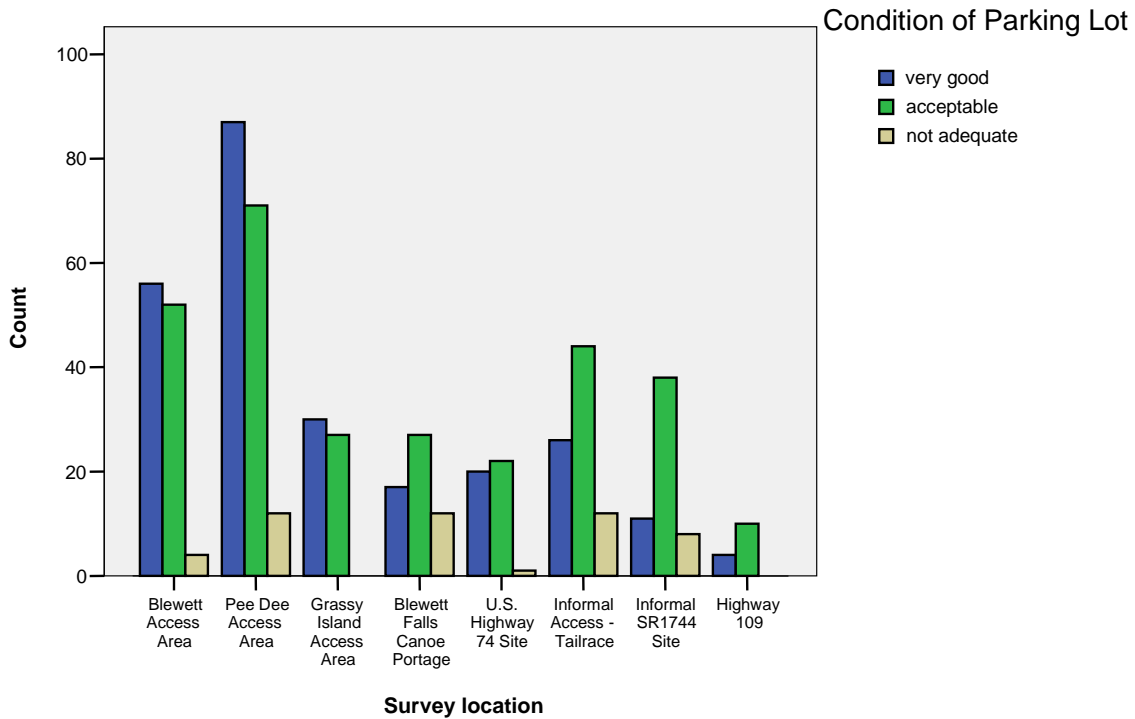


Figure 27 Blewett Falls Lake - condition of parking lot.

Visitor Comments Concerning Condition of Parking Lots - “Need to enforce parking areas and restrictions at Pee Dee Access; Better parking area with actual spots; Smoother parking area at tailrace ramp.”

■ **Condition of Campgrounds**

Overall, more than one-third of the respondents (36 percent) at Blewett Falls Lake felt that the campgrounds were “not adequate” (Table 67, Figure 28). With respect to specific access areas, half of the respondents at the Blewett Falls Canoe Portage (52 percent), the Grassy Islands Access Area (50 percent), and the Informal SR 1744 Site (48 percent) felt that the condition of the campgrounds was “not adequate.” Between 15 and 33 percent of the respondents from the other access areas at Blewett Falls Lake also felt the condition of the campgrounds were “not adequate”.

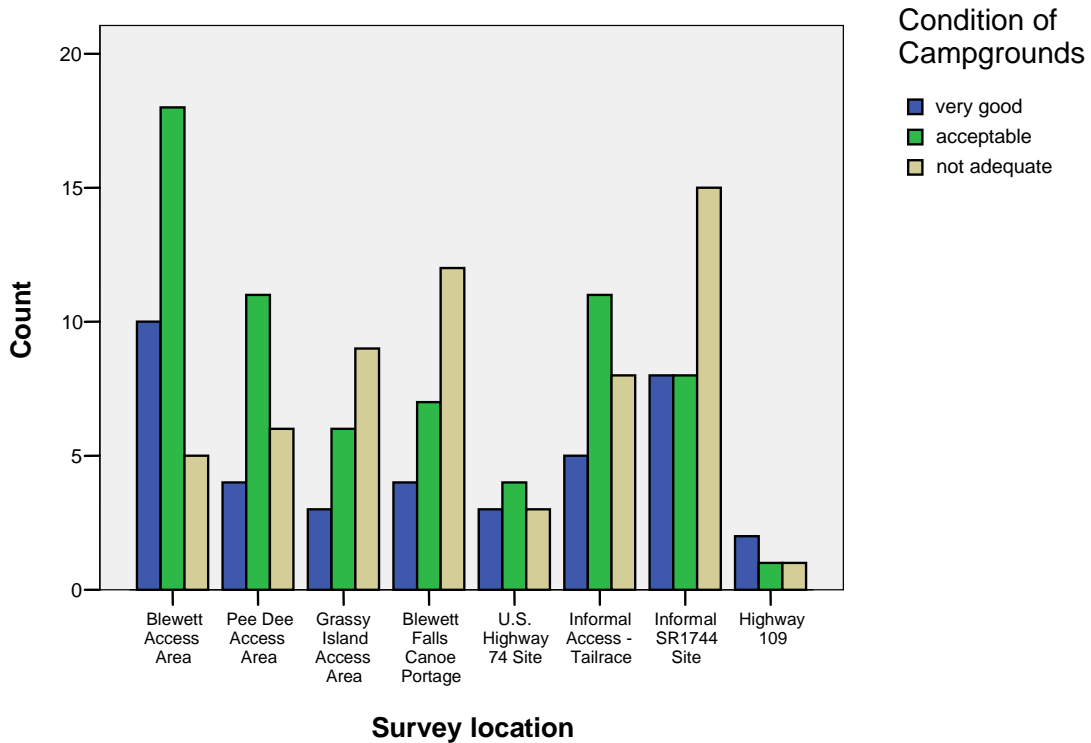


Figure 28 Blewett Falls Lake - condition of campgrounds.

Visitor Comments Concerning Condition of Campgrounds - “Need tighter regulation and restrictions on camping; Please focus on good facilities for public camping; More camping; Please increase camping areas; Camping needs more opportunity and stiffer regulations; Allow camping here; Want to camp at Blewett Falls Canoe portage site; Need to open camping and access to four-wheelers back up; Keep area and camping open; Commercial and public camping opportunities are here, the resource should be tapped; I would love to be able to camp again - I’ve been coming here since I was 6 years old - I love it!!!”

■ **Condition of Toilet Facilities**

In general, half of all respondents at Blewett Falls Lake felt that the condition of the toilet facilities was “not adequate” (51 percent) (Table 68, Figure 29). The access areas where less than half of the respondents felt the toilets were “not adequate” was the Informal Tailrace Access Area (43 percent).

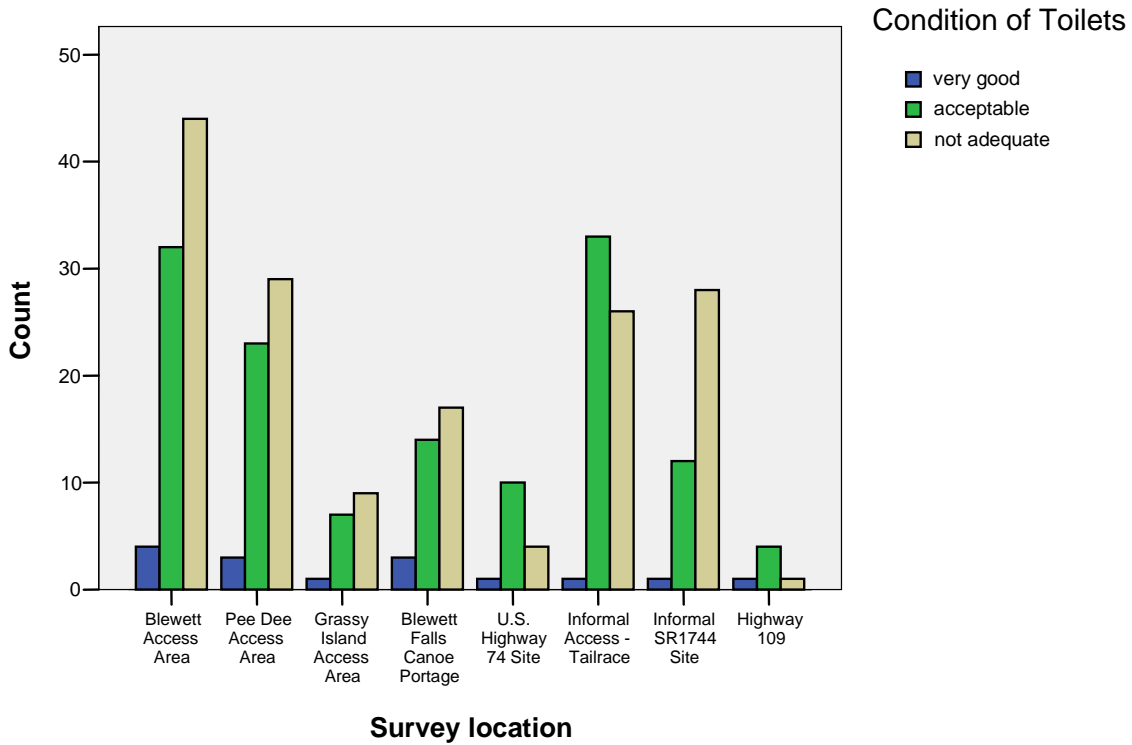


Figure 29 Blewett Falls Lake - condition of toilet facilities.

Visitor Comments Concerning Condition of Toilet Facilities - “Need toilets at Powerhouse; Add bathrooms; Add Port-A-Johns and water fountain at Blewett Access for boaters and fishermen; Bathrooms and water fountain; Bathrooms; Most all lakes that I have been to have some form of a restroom and this facility should as well; Need to have a way to get clean water and restroom for man and women; Would like to see bathroom installed here; Help with toilet facilities.”

■ **Condition of Fishing Piers**

The majority of respondents from the Blewett Tailwater Access Area(56 percent) and the Informal Tailrace Access Site (54 percent) felt that the condition of the fishing piers was “acceptable” (Table 69, Figure 30). Between 35 and 45 percent of respondents from Informal SR 1744 Site, Pee Dee Access Area, Blewett Falls Canoe Portage and Grassy Islands Access Area felt that the condition of the fishing piers was “not acceptable”.

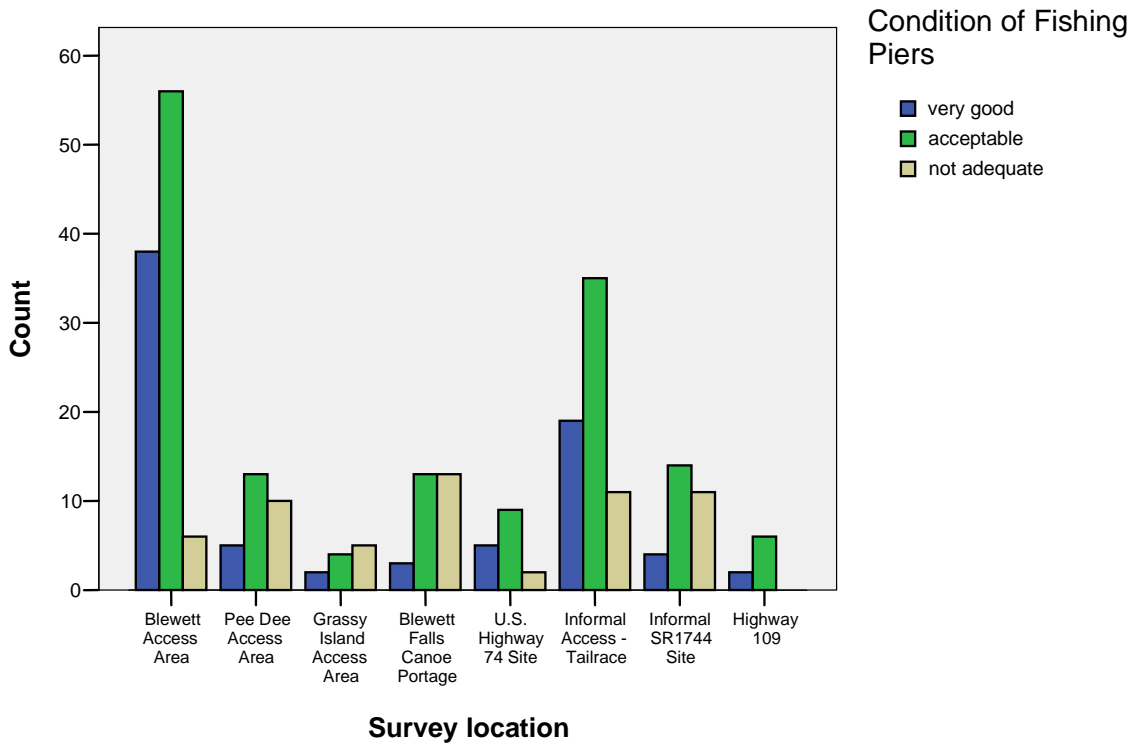


Figure 30 Blewett Falls Lake - condition of fishing piers.

■ **Condition of Signage**

A majority of respondents (90 percent or greater) from Blewett, Pee Dee, and Grassy Islands Access areas felt there was “acceptable” to “very good” signage. A small number of respondents from Blewett Falls Canoe Portage (14 percent), Informal Tailrace Access (17 percent) and Informal SR 1744 Site (17 percent) felt as though signage was “not adequate” (Table 70, Figure 31).

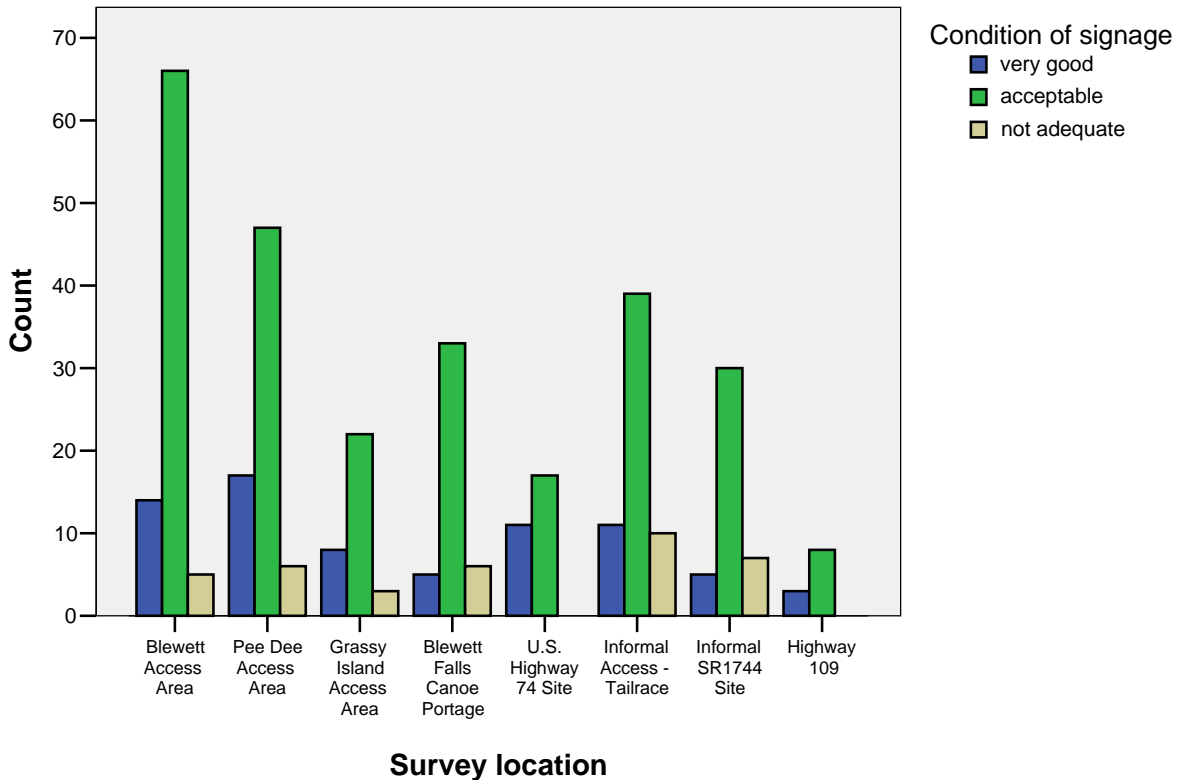


Figure 31 Blewett Falls Lake - condition of signage.

■ **Issues of Conflict and Concern**

Recreationists at Blewett Falls Lake were asked to “identify any user conflicts [they had] today with other recreational users”. The primary areas of conflict were unruly behavior of other recreationists, conflicts with motorized boaters and jet skis. In addition to conflicts, respondents raised other issues affecting their recreational experience (for a summary of frequency of types of comments, see Table 71).

Summary of Visitor Conflicts at Blewett Falls Lake

| | |
|---|---|
| <i>General Visitor Behavior:</i> | Drinking and unruly behavior; Intoxicated persons; Had my window smashed and car scratched; People drinking and using drugs; need to regulate users; People have too much alcohol and get rowdy; People not cleaning up when camping; People shooting and slashing tires; Drunks in evenings on weekends (not today though); Conflicts have been reduced since camping was stopped. |
| <i>Conflicts with Motorized Use-Boats:</i> | Boaters driving close to bank and running over lines. |
| <i>Conflicts with Motorized Use-Jetski:</i> | Jet skiers and weekend parties do not respect fisherman; Jet skiers are a constant conflict; Jet skiers do not respect other users; Jet skis have caused problems for fishing. |

Additional Comments and Concerns at Blewett Falls Lake

| | |
|----------------|--|
| <i>General</i> | This lake has a little for my entire family; First time here, this is a nice place & I will be coming back; Everything has been OK for me; Enjoy the lake; Leave the lake undeveloped and like the current state; I like the lake like it is - don't change it; Nice place to visit; Beautiful place - have come here for years - we love it; Fine facility; I've never had any problems, everything is nice; I've always really enjoyed it down here; We love our old boat landing - I have stored it in Anson County for 30 years and have enjoyed it for 30 years; We really enjoy the lake and being able to use it; Enjoy; I appreciate being able to use the lake. |
|----------------|--|

| | |
|-----------------------------|---|
| <i>Fishing/Fish stock</i> | Limit the number of rods used on wall per person; Gate that extends over water interferes with getting to lower access to land large fish; Would like to see the fishing get better; Need regulation on fish catches; keeping fish that aren't supposed to be kept; Enjoy fishing here; More areas to land large fish; Stock the river with white bass and crappie; Stock fish; Designate some parts of the lake (as) fishing only - or no (gas) motors, only trolling motors; Absolutely love fishing in Blewett; Need to regulate fish harvest on crappie and bass; Jug fisherman have lines out; Stock lake with big catfish; Stop using jugs; More areas to fish that are cleared out along bank; Would like to continue fishing at dams and lake day/night; When I fish at the tailrace people fish with 5-6 rods and that reduces room for other fishermen - the rod limit should be limited to two; If people are fishing on banks, boats shouldn't come in too close to the fisherman's line; |
| <i>Amenities/Facilities</i> | Need lights at boat ramps; Area light in parking lot; Light in Parking lot. Lights in parking lot; Light Pee Dee Access; Street lights around accesses will help with security at night; Open a bait store or vending machine that sells bait at the dam; provide water for fishermen to wash hands at the dam; pay phone for fishermen in case of emergency; Really need a roof, so that if it starts raining you don't have to leave - you can stay and enjoy; Playground & rides for kids; Need beaches at portage for fishing/wildlife viewing; Picnic tables; Turning these areas into a public beach or park would provide the recreation people need and help stop the litter and misuse; Picnic tables need to be added to allow places for users to sit. |
| <i>Security</i> | Have game warden come more often at night; Warden should visit or police to keep people from getting too drunk; People drinking on fishing pier interfered with my recreation; Supervision of access area, security; Not enough law enforcement - too few wardens. Safer trails, steps with rails; Children running back and forth on walkway - restrict to fishing only; Try to keep off walkway - safety issue for kids. |
| <i>Debris/maintenance</i> | Flag stumps with buoys; Clean up debris, mark stumps; Clean up banks; Get rid of stumps, Stop taking out stumps and reducing natural wood in the lake; Too much debris around lake; big logs floating around should be removed; Clean up stumps and debris in water; Remove trees; Woody debris in front of boat ramps; Have stumps marked better or removed; Make the lake a lot safer and more enjoyable; Clean up the bank; Keep the grass cut; Too many snags and brush off HWY 109 access for bank fishermen. |

1.1.2.9 Trip Expenses

Lake Tillery Visitors

Respondents visiting Lake Tillery spend on average the most money in three areas, gas, food, and lodging (Table 72). Lodging was identified as expenditure for those respondents from Norwood, Swift Island, Lilly’s Bridge, and slightly for Tillery Canoe Portage respondents (Table 73). Purchasing gasoline was the highest overall expenditure by respondents, followed by food. Based on the residence of the majority of respondents, however, logically, lodging was not a significant annual expenditure for visitors to Lake Tillery.

Blewett Falls Lake Visitors

Respondents to Blewett Falls Lake spend on average the most money in the areas of gas, food and bait and tackle (Table 73). On average, respondents spent \$14 on gas, \$9 on food, and \$7 on bait and tackle. Table 75 shows the average expenditure by visitors per access location. Visitors to the

Pee Dee Access Area on average spent the most on gas, while visitors to the Informal SR 1744 Site spent on average the most on food.

1.1.3 Resident Recreational Use Survey Results

Lake Tillery Residents

Waterfront lease holders/residents at Lake Tillery (n=1,874) were randomly selected to participate in a mail survey from May 2004 thru March 2005. For Lake Tillery, the Licensee received 2,106 responses to the mail survey. Overall, a consistent number of responses occurred throughout the survey period with a response rate between 42 and 55 percent, and approximately 8 to 10 percent of the total number of surveys completed each month (Table 76).

Blewett Falls Lake Residents

Waterfront lease holders/residents from Blewett Falls Lake (n=3) were selected to participate in a mail survey from May 2004 thru March 2005. The Licensee received 21 responses from residents throughout the course of the year. The greatest frequency of responses was in January, February, August and September, with the smallest response rate in July, October, and November. There were no responses from Blewett Falls Lake lease holders during December 2004 (Table 77).

1.1.3.1 Frequency of Time Spent at Lakefront Property

Lake Tillery Residents

As would be expected, residents report spending the highest number of days at the Lake during the high season months May to August. For the year, a majority of respondents (n=769; 38 percent) spent 22 to 31 days at Lake Tillery, followed by 28 percent spending one to seven days (n=570), and 14 percent of respondents overall spending eight to 14 days at the lake (Table 78).

Blewett Falls Lake Residents (Lease Holders)

Due to the small number of responses by residents at Blewett Falls Lake (n=20), it is difficult to get a good indication of the length of time spent at the Lake throughout the year (Table 79). There is a slight lean, however, towards residents spending most of their time at the Lake during the high season months, as is the case with the residents of Lake Tillery.

1.1.3.2 Group Size

Lake Tillery Residents

The majority of resident respondents reported a group size of one to five adults (94 percent), with an average of 2.5 adults reported (Table 80). Ninety-nine percent of all resident respondents reported one to five children per group, with a very low average number of children at less than one (.73) per group (Table 81).

Blewett Falls Lake

The majority of resident respondents at Blewett Falls Lake reported a group size of one to five adults (90 percent), with an average of two adults (Table 82). Sixty percent of respondents reported having zero children, with 40 percent reporting having between one and five children (Table 83). The average number of children was less than one (.7).

1.1.3.3 Recreational Activities

Lake Tillery Residents

The top eight activities most frequently mentioned by respondents were: 1) motor boating (54 percent); 2) wildlife viewing (39 percent); 3) swimming (34 percent); 4) bank fishing (33 percent), sunbathing (33 percent); 5) jet skiing (26 percent); 6) boat fishing (25 percent); 7) waterskiing (18 percent); and 8) picnicking (12 percent) (Table 84).

“Other” activities identified included yard work/maintenance, which accounted for over one-third of the responses. Relaxing, sitting on a pier and kayaking were also common activities. Additional activities mentioned were feeding the fish, playing games, stargazing, training/walking dog, mountain biking, and hunting Easter eggs.

Overall Lake Tillery residents spend a majority of their time wildlife viewing, with respondents reporting an overall average of eight days per month engaged in this activity. Motor boating was the next most frequent activity with respondents reporting an average of five days of motor boating per month. Swimming was popular, with an average of four days per month, followed by jet skiing and bank fishing each with an average of three reported days per month (Table 85).

Summary of comments on recreation activities by Lake Tillery residents:

- Jet skis
 - We enjoy our jet ski very much
 - We used our jet ski every day the water level was up
 - I hate these jet skis
 - Jet skis interfere with all other lake activities
 - There is a need to control jet skis!
 - The river level too low for jet skis
 - There are too many jet skis on the lake
- Swimming
 - Enjoy swimming all summer
 - Cannot swim because of algae
 - Kids swim often
 - Poor swimming, due to grass growing on bottom
 - Swim usually weekends
- Boat fishing
 - Fish every day the water level was up
 - Fish every morning
 - Did not fish when lake was down
 - Need to restock striper and crappie

- Not too lucky.
- There is poor fishing
- Too crowded with boats
- Weather permitting
- **Bank fishing**
 - Fish for catfish
 - Bank fish daily
 - I dock fish
 - Enjoy very much
 - This is my favorite pastime
 - I enjoy fishing off my pier
 - Fun and relaxing.
 - It is good-calm
 - Good crappie fishing.
 - The lake level low when temp warm
 - Nearby lakes have a better fishing
 - Need to restock lake
 - No fish
 - Bank fishing is not good
 - Poor fishing overall
 - The lake is too crowded with boats
- **Hunting**
 - I hunt for duck/goose
 - I hunt ducks
 - I hunt in Thicketing Creek
 - I hunt at the lake house near farm
 - I hunt other land
 - Should be prohibited on recreational lakes due to danger posed to visitors and residents. This is an ongoing and growing problem.
 - Waterfowl
- **Wildlife Viewing**
 - I always watch for birds, snakes, deer, etc.
 - Amazing to see a bald eagle swoop and sweep a blue heron from eagle's waters. Disheartening to see the myriad of muskrats eating foliage.
 - Anytime I happen to see any.
 - Bird feeding and watching
 - Birds, bees, night critters know it's Spring.
 - Birds, muskrats; especially eagles and pileated woodpecker.
 - Birds, squirrels, herons, turtles.
 - Eagle, and other critters
 - I enjoy very much
 - I like fish feeding
 - Is highly appreciated
 - I enjoy seeing the great blue herons, kingfisher, mallards, Canada geese, Bluebirds, pileated woodpeckers
 - Mallard hunting needs to be banned before they become extinct.
 - Saw a bald eagle attack a great blue heron. WOW!
 - We saw several muskrats, fish and ducks

- We sit in the AM & PM in my backyard with Bino's looking at eagles, ospreys, G. Blue herons and other birds
- Too many deer and squirrels! Feeding ducks and seagulls.
- Watch wildlife all the time.
- I enjoy watching & feeding seagulls
- We look at Morrow Mountain across the lake. We love Lake Tillery.

Blewett Falls Lake Residents

The most frequently mentioned activities participated in by residents at Blewett Falls Lake were wildlife viewing (81 percent), bank fishing (52 percent), picnicking (52 percent), boat fishing (48 percent), hiking (43 percent), motor boating and lake canoeing (33 percent), and river canoeing (29 percent) (Table 86).

Overall Blewett Falls Lake residents spend a majority of their time wildlife viewing, with respondents reporting an overall average of six days per month engaged in this activity. Respondents spent an average of five days per month doing “other” activities, which were specified as “living on the Lake and enjoying the Lake everyday.” Bank fishing, picnicking, motor boating and hiking were the next most frequent activities with respondents reporting an average of two days per month participating in these activities (Table 87). There were no additional comments by residents of Blewett Falls Lake on recreational activities.

1.1.3.4 Conditions Interfering with the Recreation Experience of Residents

Lake Tillery Residents

■ Level of Concern for Crowded Conditions

Residents at Lake Tillery were asked to identify whether there were conditions that interfered with their recreation experience and if so, to indicate their level of concern (low, medium, or high) for the condition. With respect to crowded conditions on the lake, 45 percent (n=957) of respondents had no level of concern or did not address the question concerning conditions that interfered with their recreation experience. Thirty-two percent of respondents (n=676) expressed a low level of concern for crowding on the lake, while 17 percent expressed a medium level of concern and 6 percent expressed a high level of concern (Table 88).

To further explore resident’s level of concern for crowded conditions on Lake Tillery, conditions were examined by month for those responding to this question (n=1238). The results indicated that generally, during off-season months (Jan-Mar and Oct-Dec) the majority of respondents (72 to 84 percent) had no level or low level of concern for crowded conditions. However, of those that did respond, during high season months (May-September), 47 to 57 percent of respondents expressed a medium to high level of concern for crowded conditions on Lake Tillery (Table 89).

■ Limited Access

Fifty-four percent (n=1132) of respondents did not express concern for limited access on Lake Tillery. Of those that did express concern, a majority of respondents, 39 percent (n=833) expressed

a low level of concern, with 5 and 2 percent submitting a medium to high level of concern respectively (Table 90).

■ **Improper Disposal of Trash/Litter**

Forty-six percent of respondents (n=973) did not express a level of concern with respect to improper disposal of trash or litter. Of those respondents that did express a level of concern (n=1,149), 26 percent of respondents on Lake Tillery expressed a low level of concern, while 16 percent expressed medium level of concern and 12 percent expressed a high level of concern (Table 91).

■ **Lake Water Levels**

Thirty-eight percent (n=806) of respondents did not express concern for lake water levels on Lake Tillery. Of those expressing a concern for water levels (n=1316), 29 percent had low level of concern, with 17 percent at medium level of concern, and 15 percent having a high level of concern (Table 92).

Blewett Falls Lake Residents

Residents of Blewett Falls Lake (n=21) were asked of those that have experienced conditions that interfered with their recreation experience, what was their level of concern for crowded conditions, limited access, and improper disposal of trash and litter.

■ **Crowded Conditions**

Blewett Falls Lake resident respondents (48 percent; n=10) generally did not express concern or had low level of concern for crowded conditions on the lake (Table 93). The results in Table 94 demonstrate the level of concern for crowded conditions by Blewett Falls Lake Residents per month. Overall, of those that had a response to the crowded conditions on Blewett Falls Lake, the level of concern was generally low each month, with only one respondent identifying a medium level of concern for May.

■ **Limited Access**

One-third of resident respondents did not express concern for limited access (n=7). Of those that did have some level of concern, 27 percent (n=6) expressed a low level of concern, one resident (5 percent) expressed a medium concern, and 33 percent (n=7) expressed a high level of concern for limited access on the lake (Table 95).

■ **Improper Disposal of Trash/Litter**

Approximately one half of resident respondents (48 percent; n=10) did not express concern for improper disposal of trash on Blewett Falls Lake. However, 24 percent (n=5) of respondents that did express a level of concern expressed a high level of concern, followed by 19 percent (n=4) expressing a low level of concern, and 10 percent (n=2) expressing a medium level of concern (Table 96).

■ Lake Water Levels

The majority of resident respondents (67 percent) expressed some concern over lake water levels at Blewett Falls Lake. Of those, 29 percent expressed a high level of concern, 19 percent expressed a medium level of concern, and 19 percent expressed a low level of concern (Table 97). Approximately one-third of respondents did not express any level of concern with lake water levels.

1.1.3.5 Use of Public Boat Launch Facility

Lake Tillery Residents

The majority of respondents did not indicate use of a public boat launch facility at Lake Tillery (83 percent) (Table 98). Of the total number of residents that did utilize a public boat launch facility (17 percent; n=368), 36 percent of those identified using Lilly's Bridge Access, 21 percent used the Swift Island Access, and 16 percent used Norwood Access Area (Table 99). In general, the amount of use by Tillery residents was relatively low at public boat launch facilities.

Blewett Falls Lake Residents

Almost half (52 percent) of respondents at Blewett Falls Lake indicated using a public boat launch facility (Table 100). Almost one-quarter (24 percent) of respondents identified using the Mountain Creek boat launch facility, while others identified using Anson County, Richmond County, and Blewett Falls boat launch facilities (Table 101).

1.1.3.6 Recreation Expenses

Lake Tillery Residents

The greatest expenditure by resident respondents on Lake Tillery was food (\$113,452), with a reported average of \$132 per month. Gasoline followed second, with a total residents spending of just over \$98,000 per year and an average of \$80 per month. Residents spent nearly \$17,000 on bait and tackle and approximately \$8,200 on use fees during 2004 to 2005 (Table 102).

Blewett Falls Lake Residents

The greatest expenditure by resident respondents on Blewett Falls Lake was food (\$698), with a reported average of \$37 per month. As with Lake Tillery, gasoline followed second, with residents spending \$530 per year, an average of \$28 per month (Table 103). Bait and tackle was the other major expense at Blewett Falls Lake, with residents spending an average of \$6 per month on bait and tackle.

1.1.4 Canoe Portage Survey Summary

A survey box with a survey questionnaire for canoeists was installed at a visible location near the take-out point. Progress Energy retrieved the information from the collection boxes and tabulated usage. A total of 40 groups completed the questionnaire.

1.1.4.1 Visitation Time of Day

Lake Tillery

The majority of respondents (n=6) to Lake Tillery Canoe Portage reported visitation during the latter part of the day, between 4:00 p.m. and 8:00 p.m., followed by morning use between 7:00 a.m. and 12:00 p.m. (n=2), with the least amount of use reported during the middle hours of the day (Table 104).

Blewett Falls Lake

The majority of respondents (n=11) to Blewett Falls Lake Canoe Portage reported visitation during the latter part of the day, between 4:00 p.m. and 8:00 p.m., followed by mid-day use between 12:00 p.m. and 4:00 p.m. (n=8), with the least amount of use reporting during the earlier hours of the day and the latter hours of the evening (Table 105).

1.1.4.2 Number of People in Groups and Monthly Visitation

Lake Tillery

Most of the respondents visiting the Lake Tillery Canoe Portage reported being in groups of two, with the greatest visitation occurring during the month of April (Table 106). There were a total of nine groups that responded to the survey at Lake Tillery Canoe Portage.

Blewett Falls Lake

Most of the respondents visiting the Blewett Falls Lake Canoe Portage reported being in groups of two (n=6), followed closely by groups of four (n=5), and groups of five (n=4). The greatest visitation occurred during the month of April, and a total of 24 groups responded to the canoe portage survey at Blewett Falls Lake (Table 107).

1.1.4.3 Summary of Put-in and Take-out Locations

Lake Tillery

The majority of respondents at Lake Tillery did not identify their put-in or take-out locations (n=8). One respondent identified putting-in at Lilly's Bridge and taking-out at Cook's Marina (Table 108).

Blewett Falls Lake

As with Lake Tillery, the majority of respondents at Blewett Falls Lake did not identify their put-in or take-out locations. Of those that did identify their location, most canoeists utilized the same location as a put-in and take-out site. For example, at Anson, the landing downstream of the dam, Mountain Creek, and Pee Dee Access Area, people launched and took out their canoes in the same area. The few that traveled to a different take-out site were those launching above the lake, and 'close to the river' (Table 109).

1.1.4.4 Ease of Portage

The majority of the respondents of the portage survey found portage to be “easy” (n=15) or “acceptable” (n=11) (Table 110).

Lake Tillery

Of seven responses on the ease of the Lake Tillery portage, four persons felt it was easy, with one finding it “acceptable”, and two finding the portage “difficult” (Table 111).

Blewett Falls Lake

The majority of respondents at Blewett Falls Lake responded that it was “easy” (n=9) or “acceptable” (n=9), with a small number who found the portage difficult (n=4) (Table 112).

1.1.4.5 Comments by Canoe Portage Visitors

Comments referencing the Lake Tillery Canoe Portage centered around two themes, the environment and need for facilities or upgrade of facilities. Generally, people feel trash is a problem at both lakes; would like to see more camping at Blewett, and would like to see a healthy fishery maintained. The following are comments summarized by site:

Lake Tillery

- Lake Tillery Environment:
 - We need more fish
 - Enforce no pollution, too much trash near big walk in sign.
 - Need to do something about the trash.
- Lake Tillery Facilities:
 - Would like an easier walkway to the tailrace area on the Stanley side
 - We would like fishing from the dam

Blewett Falls Lake

- Blewett Falls Lake Environment:
 - Logs everywhere
 - Please keep our dam
 - Need trash cans
 - Water level is up and down – fish are dying because of constant changes in water level
 - Need a clean lake to swim in
- Blewett Falls Lake Facilities:
 - Need grills and camping area
 - Put chairs and barbeque grills
 - There needs to be more camping areas available not only for people with watercraft, but for people without
 - Would be better to put a way to walk in and a playground for the kids.
- Unknown Location Comments:
 - Too much trash near big walking sign. Enforce no polluting!

- Picnic tables and port-a-johns would be nice, a little more policing to discourage theft from parked vehicles.
- Very enjoyable to view the Lake.

1.1.5 Tailrace Fishing Survey

A survey of fishermen utilizing the public tailrace fishing areas was conducted just downstream of Tillery and Blewett Falls dams. A survey box containing survey questionnaires was installed at a visible location near the tailrace fishing areas. Progress Energy employees retrieved the information from the collection boxes and tabulated use of the fishing areas and documented recreational fishing success. Ninety-one respondents completed the Tailrace fishing survey, with 47 of the respondents from the Lake Tillery tailrace, and 38 from the Blewett Falls Lake tailrace (Table 113).

Lake Tillery

The majority of the respondents from Lake Tillery completed the survey between 6:00 a.m. and 10:00 a.m. (30 percent). Twenty-six percent of the surveys were completed between 2:00 p.m. and 6:00 p.m. (Table 114). Several respondents (21 percent) indicated that weather was “clear and sunny” on the day they visited Lake Tillery, with 19 percent fishing in cloudy and overcast conditions, and 13 percent experiencing hot and hazy conditions (Table 115).

Blewett Falls Lake

Respondents at Blewett Falls Lake completed the survey during various times of the day, from early morning (6:00 a.m.) to late evening (10:00 p.m.) (Table 116). The majority of surveys were completed between 10:00 a.m. and 10:00 p.m. (76 percent). A large proportion (37 percent) of respondents indicated that the weather was ‘clear and sunny’ on the day they visited Blewett Falls Lake, with 24 percent fishing in cloudy and overcast conditions (Table 117).

1.1.5.1 Tailrace Visitor Use Characteristics

Lake Tillery

The Tailrace fishing survey addressed socio-demographic questions including: age, gender, and group size. The Lake Tillery sample was dominated by male participants, consisting of 38 (81 percent) males, and nine (19 percent) females (Table 118). Approximately 77 percent of the sample was 50 years of age or younger, with a fairly even distribution between the ages of 22 to 50 (Table 120). (Note: The age related data are presented in categories to more efficiently represent the characteristics of the respondents.) Individuals fishing at the Lake Tillery tailrace generally visit in small groups. A majority of respondents (62 percent) reported being in groups of one to two persons. Nine percent of respondents reported a group of three, and approximately 19 percent reported individual groups ranging from four to a maximum of 27 in one group (Table 120).

Blewett Falls Lake

The Blewett Falls Lake sample was also dominated by male participants, consisting of 33 (87 percent) males, and three (8 percent) females (Table 121). Approximately 74 percent of the sample was 50 years of age or younger, with 10 respondents between the ages of 22 to 30, seven

between the ages of 31 to 40, and six between the ages of 31 to 40 (Table 122). Individuals fishing at the Blewett Falls Lake tailrace generally visit in small groups. A majority of respondents (61 percent) reported being in groups of one to three persons. Eight percent of respondents reported a group of four, and approximately 16 percent reported individual groups ranging from five to a maximum of 16 in two groups (Table 123).

1.1.5.2 Tailrace Fishing Frequency and Use Patterns

Lake Tillery

The majority of respondents fished at the Lake Tillery tailrace one to two days per month (32 percent), with 30 percent fishing greater than 10 times per month (Table 124). The majority of respondents fish the tailrace during early morning (62 percent). Approximately 13 percent fish from late morning to early after noon, with a number of respondents fishing late afternoon to early evening (21 percent) (Table 125). Forty-nine percent of respondents typically stay two to four hours fishing at the tailrace, with nearly 36 percent spending greater than five hours (Table 126).

Blewett Falls Lake

The majority of respondents fished at the Blewett Falls Lake tailrace greater than 10 times per month (34 percent), with 42 percent fishing between three and 10 times per month (Table 127). The majority of respondents fished the tailrace either early morning (26 percent) or late afternoon (26 percent). Approximately 29 percent fish from late morning until early afternoon (Table 128). Thirty-seven percent of respondents typically stay two to four hours fishing at Blewett Falls tailrace, with approximately 55 percent spending greater than five hours (Table 129).

1.1.5.3 Tailrace Angler Fishing Preference and Success

Lake Tillery

Anglers to the tailrace were asked what type of fish they are fishing for. The majority of respondents at Lake Tillery tailrace stated they were fishing for stripers (33 percent), followed by catfish (22 percent), “anything” (12 percent) and white bass (10 percent) (Table 130). Anglers were split between catching and not catching fish, with approximately half of respondents successful (49 percent) (Table 131). Of those that did catch fish, 33 percent of respondents indicated they had caught stripers. Twenty-one percent of respondents indicated that they had caught catfish, and 13 percent had caught gar. The range and size of fish caught are documented in Table 132.

Blewett Falls Lake

The majority of respondents at Blewett Falls Lake tailrace stated they were fishing for catfish (39 percent), followed by stripers (17 percent), ‘anything’ (13 percent) and bass (11 percent) (Table 133). Anglers were split between catching and not catching fish, with just under half of respondents successful (45 percent) (Table 134). Of those that did catch fish, 39 percent of respondents indicated they had caught catfish. Thirteen percent of respondents indicated that they had caught stripers, and 13 percent had caught crappie. The range and size of fish caught are documented in Table 135.

1.2 Recreation Carrying Capacity

Carrying capacity is an “umbrella” concept used to address overuse or visitor-impact issues; it generally refers to the maximum use level that can occur in an area without degrading biophysical resources or recreation experiences. As with other resource management issues, estimating the capacity for a particular resource area depends on management objectives and more specific standards that define impact acceptability, both requiring evaluative judgments (Shelby and Heberlein 1986).

With respect to the Recreation Study Plan, stakeholders identified two types of capacities to review in recreation settings at Lake Tillery and Blewett Falls Lake:

- **Physical capacity** which referred to the space needed to engage in a particular recreation activity. Assessing physical capacities conceivably make sense if there are spatial constraints. This calculation sets an upper bound by explaining how many can actually “fit” in an area.

There are different methods to determine a theoretical physical capacity at a lake. The method identified in the RWG was a methodology developed by the Bureau of Outdoor Recreation (BOR). Essentially this involves looking at the total surface area of the lake and applying a ratio based on user type. Using this methodology, Progress Energy estimated physical carrying capacity of each lake.

- **Social carrying capacity** refers to impacts that impair or alter human experiences in recreation settings. Standards are required to define how much interaction, competition, conflict, or signs of use are acceptable for a given type of recreation experience. Impact indicators relative to Lake Tillery and Blewett Falls Lake include perceived crowding at access points and on the lake surface.

The importance of understanding social carrying capacity (i.e., people’s perceptions of crowding at the lakes and facilities) is also discussed within the context of recreation use. In addition, a review of the boating accidents on Lake Tillery was conducted.

In addition, to assist in understanding carrying capacity issues relative to use at the lakes, facility capacity was also examined.

- **Facility capacity** refers to the number of people or groups that a developed site or facility is designed to handle. Facility capacity is generally associated with site planning rather than larger areas as in this study. Facility capacities, however, can interact with other capacity issues, by attracting and concentrating use. This study reviewed existing parking facility capacities at access areas (Lake Tillery, Table 136; Blewett Falls Lake, Table 137).

1.2.1 Physical Capacity

Based on the BOR methodology, the physical capacity (theoretically) for Lake Tillery is 633 boats at- one-time, assuming a density of nine boats per acre for all boating types. Based on average visitor use estimates from Lake Tillery for the April 2004 to March 2005 time period, the following steps were used to estimate the estimated number of boats on the lake during one day on Lake Tillery.

Estimating visitor lake surface physical capacity:

1. The average daily use utilizing the spot counts of vehicles with boat or jet ski trailer was calculated for each type of day (i.e., weekend/holiday, weekday) for an estimated total number of watercraft;
2. For Lake Tillery, resident estimates were added to visitor spot counts for a total lake surface use estimate by type of day.
3. Visitor boat use was based on a ranged calculated from the type of day (weekday, weekend, holiday (see Table 140)).

To understand the resident contribution to the number of boats on Lake Tillery during a day, the following assumptions were made:

- First, the number of respondents that said they participated in water skiing also said that they motor boated (97 percent), therefore we assume that those that water ski are accounted for in the motor boating response for residents;
- The number of respondents who said they participated in boat fishing also said that they motor boated (88 percent); therefore, we assume that those that boat fishing are 88 percent accounted for in the motor boating responses for residents;
- Based on the results of the survey, 22 percent of those boating use a public launch site, therefore we assume that 22 percent of the respondents have been accounted for during the daily spot counts;
- Watercraft estimates were made for each month in order to provide a range of estimated use throughout the year.
- The sources used for this estimate assume use from personal/private dock access and 22 percent public launch use. While the resident survey does ask whether residents use a launch site, it is unclear how many boats are from marinas (resident or non-resident) and private access areas.
- Based on the resident survey, it is also unclear how long a boater spends on the lake and/or whether or not the boating behavior pattern of residents differs from that of visitors (i.e., days of the week spent on the lake, time of day, number of trips on the lake per day); therefore the estimated calculations simply provide an estimate for the number of boats/watercraft on the lake on a given day. Theoretically, these numbers may be spread over the course of 8 to 12 hours of daylight depending on the time of year (see Tables 141 and 142).

Lake surface use per day on Lake Tillery is greatest in the summer and peaked with an estimated maximum use of 845 boaters on the lake over a course of a single day (July 4) (see Table 140).

Blewett Falls Lake

The physical carrying capacity based on BOR methodology, also assuming a density of nine boats per acre for Blewett Falls lake is 318 boats. The lake can experience changes (approximately 3 ft) in water surface elevation on a daily basis. The resulting capacity at Blewett Falls Lake decreases to 259 boats when the water has been lowered by 3 ft.

Estimating visitor lake surface physical capacity:

1. The average daily use utilizing the spot counts of vehicles with boat or Jetski trailer was calculated for each type of day (i.e. weekend/holiday, weekday) for an estimated total number of watercraft;
2. Due to the very limited number of residents on Blewett Falls Lake, resident estimates were not added to visitor spot counts for a total lake surface use estimate by type of day.
3. Visitor boat use was based on a ranged calculated from the type of day (weekday, weekend, holiday (see Table 142).

Lake surface use per day on Blewett Falls Lake also peaks during the summer months, with an estimated maximum use of 80 boaters on the lake over the course of a single day. These estimates were based on spot counts of vehicles with boat trailers three times per day over the course of one year (see Table 142).

1.2.2 Facility Capacity: Public Parking Access Areas

The facility capacity for each access area on Lake Tillery and Blewett Falls Lake was assessed. The following steps and results describe the facility capacity of public and private access areas for each lake.

- 1) Description of the setting for each facility surveyed based on existing information, reconnaissance, and facility design.

Lake Tillery

■ **Norwood Access**

The access at Norwood is a gravel parking lot for vehicle parking and for vehicles with boat trailer parking. The boat ramp is two lanes with a wooden dock that can accommodate up to three boats at a time. The shoreline around the cove provides access to bank fishing and is in fair condition. All other facilities are in good condition (Table 144).

■ **SR 1740 and 1745**

The access at SR 1740 and 1745 has a one lane primitive boat ramp in poor condition. The area has excessive litter and over all is in fair condition (Table 145).

■ **Stony Mountain**

The Stony Mountain Access has a two-lane paved boat ramp facility in good condition, with a wooden dock that can accommodate up to 3 boats. Bank fishing access is in fair condition, with excessive litter sighted as a primary problem. There are primitive campground facilities which accommodate 5-10 sites and are in poor condition with excessive litter. The multi-use trail is also reported to be in good condition with the exception of excessive littering (Table 146).

■ Swift Island

The Swift Island Access has a 4 lane paved boat ramp, wooden dock which can accommodate up to 8 to 10 boats, limited shoreline fishing, and gravel parking facilities. The facilities at Swift Island are in good condition (Table 147).

■ Lilly's Bridge

The access at Lilly's Bridge includes a two-lane paved boat ramp, wood dock accommodating up to six boats, old bridge and pier fishing access, limited bank fishing near boat ramps, and gravel parking. All facilities appear to be in good condition (Table 148).

■ Informal Access-TW

At the Informal Access/Tailrace, the one-lane primitive boat launch is in poor condition. The shoreline fishing access is generally good, with a slight litter problem. The secondary gravel/dirt access road to the water is very steep and in fair condition. The vehicle/boat trailer parking is gravel and in good condition (Table 149).

■ Tillery Canoe Portage

The Tillery Canoe Portage has shoreline fishing access for 25 to 30 anglers. Shoreline access is in good condition with some litter. The canoe portage trail and secondary access road are both in fair condition. The vehicle parking area is dirt and is fair condition with excessive littering (Table 150).

Blewett Falls Lake**■ Highway 74**

The Highway 74 site at Blewett Falls Lake can accommodate 125 vehicles and 50 boat trailers in the gravel and grass parking lot. There is a one-lane concrete boat ramp, and a small wooden dock that can accommodate two boats. There are small clearings on the bank used as shoreline fishing access for up to five people which is in fair condition, and there is a two-lane gravel road into the access site. Overall the access site is in good condition (Table 151).

■ Informal Tailrace Access

At the Informal Access – Tailrace site there is one concrete and two dirt one-lane boat ramps, each in fair to poor condition. There is capacity for 50 vehicles and 20 boat trailers in the gravel and dirt parking lot which is in fair condition with some erosion damage. There are some clearings along the shoreline which provide fishing access for 20 to 25 people, and there is a swimming beach in fair condition which becomes exposed at low water (Table 152).

■ Blewett Falls Canoe Portage

The Blewett Falls Canoe Portage access site is generally in poor to fair condition with excessive litter and holes in the access roads and parking areas. The site has parking for 20 vehicle and eight boat trailers in a cul-de-sac and small clearing off the gravel access road. There is a small beach

around the portage cove used for swimming, and the shoreline is used for fishing for up to 20 people (Table 153).

■ **Grassy Islands Access Area**

The Grassy Islands Access Area has a one-lane concrete boat ramp in fair condition, a grassy area along the bank for fishing access, a two-lane gravel access road, and a gravel parking lot for up to 30 vehicles and 12 boat trailers. Generally, the access area is in good condition (Table 154).

■ **Highway 109**

The access area at Highway 109 includes a one-lane concrete boat ramp, a wooden boat dock with metal grate for up to three boats, an open, grassy parking area for up to 57 vehicles or 25 boat trailers, and a one-lane dirt access road. Generally the access area is in good condition, except for the boat ramp which is in fair condition (Table 155).

■ **Informal SR 1744**

The access at Informal SR 1744 Site has a one-lane, informal/unpaved boat ramp in fair condition, a swimming beach which is exposed when the water is low, and a grassy and dirt open parking area that can accommodate 25 vehicles and 10 boat trailers. The parking area is in fair condition, and there is excessive litter along the shoreline fishing and shade trees/grass areas (Table 156).

■ **Pee Dee Access Area**

There are four two-lane boat ramps at the Pee Dee Access Area, all in good condition. There are three boat docks that can accommodate 6 to 10 boats, and there is shoreline fishing banks accessible from the lot. The parking areas are gravel with cable dividers and can accommodate 95 vehicles and 70 boat trailers (Table 157).

■ **Blewett Access Area/Power Plant**

The Blewett Tailwater Access Area has a private, one-lane gravel boat ramp in fair condition used only by Progress Energy, a concrete fishing pier, approximately 100 yards of shoreline fishing access, and a paved parking lot. The access area is generally in good condition, with some litter at the pier, along the shoreline, and the shady area along the river (Table 158).

- 2) The indicator relevant variable utilized was the “percent occupancy” (e.g., the number of parking spaces that are being used divided by the total number that exists).

The next step in understanding facility capacity was to understand the relevant occupancy of parking areas and the relationship to visitor use. To understand facility capacity at each access area, spot counts were utilized to calculate the maximum number of vehicles per weekend day, week day, and holiday for each access area by month. The results of these spot counts indicate that public access areas in general reach their maximum capacity during very specific times of year. Generally, estimates were calculated based on dimensions of an access parking area and that a vehicle with a boat trailer took up two to three times more space than an individual vehicle. Therefore, the capacity for vehicles with boat trailers was less than the capacity for individual vehicles. The number of

vehicles and vehicles with boat trailers at each facility was counted on random days, three times per day over the course of 12 months. These values were averaged and used to calculate the percent of capacity reached at each facility. In order to obtain an estimate measurement of facility capacity reached, the number of vehicles with boat trailers was multiplied by the ratio of vehicles to vehicles with boat trailers actually calculated for the area under study. For example, if vehicle capacity at a facility is 100, and vehicle with boat trailer capacity is 50, the ratio between the two vehicles capacities is 2:1. Continuing with the example, if there were five individual vehicles at the facility and ten vehicles with boat trailers, the number of vehicles with boat trailers (10) was multiplied by two and this value was added to the number of individual vehicles (5) to get a total use value of 25. Therefore, capacity reached at the facility was 25 percent (if vehicle capacity = 100), as opposed to 15 percent if the ratio between the facility capacities for the two vehicles was not taken into consideration. Tables 137 and 138 depict facility capacity by monthly use and type of day.

When comparing occupancy levels at access areas with standards to assess whether existing or projected use levels are likely to be “below capacity,” “approaching capacity,” “at capacity,” or “over capacity.”

Lake Tillery

The Norwood access exceeded facility capacity levels with respect to vehicle and vehicle with boat trailer parking on three occasions, these being fishing weekend in April (143 percent), weekend in June (113 percent), and 4th of July holiday (130 percent). Table 136 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Norwood reaches above 50 percent capacity during July weekend (63 percent) and August weekend (59 percent), and almost 50 percent capacity Labor Day holiday in September. The rest of the year, facility capacity at Norwood is below 50 percent.

The Stony Mountain access exceeded facility capacity levels with respect to vehicle and vehicle with boat trailer parking during April fishing weekend (110 percent). Table 137 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Stony Mountain reaches greater than 50 percent capacity on July weekend (84 percent), with the rest of the year reaching less than 50 percent of facility capacity.

With respect to capacity, Swift Island does not exceed facility capacity levels with respect to vehicle and vehicle with boat trailer parking. Table 14 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Swift Island reaches the greatest capacity (65 percent) once a year on an April fishing weekend. The rest of the year is less than 50 percent of parking facility capacity.

Lilly’s Bridge access rarely approached facility capacity levels with respect to vehicle and vehicle with boat trailer parking. Table 137 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Lilly’s Bridge access reaches the greatest capacity (83 percent) once a year on July 4 weekend.

Tillery Access-SR 1740/1745 did not approach facility capacity levels with respect to vehicle and vehicle with boat trailer parking. Table 137 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Tillery Access reached the greatest capacity (53 percent) during April weekends. June weekends were estimated at 37 percent capacity, October weekends

were estimated at 33 percent capacity, while during Memorial Day holiday, facility capacity reached 30 percent. The rest of the year reached less than 30 percent of parking facility capacity.

The Tillery Canoe Portage approached an estimated facility capacity level during the Memorial Day weekend end, with an estimated of 65 percent of maximum capacity. Table 137 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, the Tillery Canoe Portage reached 30 percent of capacity during May weekdays. July 4 weekend was estimated at 35 percent of capacity, with the rest of the year reaching less than 30 percent of parking facility capacity.

With respect to facility capacity, the Informal Access Area exceeded its capacity level once during the weekday in October with 124 percent capacity. The rest of the estimates demonstrate less than 50 percent capacity, with most months between 20 and 50 percent capacity (Table 137).

Blewett Falls Lake

Generally, on an annual basis, parking capacity levels at Blewett Falls Access areas are seldom reached or exceeded. Some access areas experienced increased visitation during April fishing weekends, Memorial Day weekend in May, July weekdays and the 4th of July holiday. Grassy Islands Access Area appears to have reached facility capacity during the April fishing weekends, and slightly exceeded capacity during Memorial Day weekend.

The Informal Access facility reached 50 percent of capacity on two occasions throughout the year, these being the fishing weekend in April (52 percent) and May weekday (52 percent). Throughout the remainder of the year, facility capacity was generally between 15 and 40 percent during the warmer months, and below 10 percent during the colder months (Table 138).

The estimated facility capacity for the Blewett Falls Canoe Portage, exceeded capacity on two occasions throughout the year, the average April weekday (153 percent) and the Memorial Day holiday in May (113 percent). Other times where the facility approached maximum capacity were the July 4 holiday (90 percent), June weekend (70 percent), April fishing weekend (63 percent), and August weekend (63 percent). For the remainder of the year, the facility generally had a capacity of 20 percent or less (Table 138).

For the Grassy Islands Access, there were three occasions throughout the year where the estimated facility capacity was exceeded. These were the Memorial Day holiday in May (155 percent), the fishing weekend in April (153 percent), and July weekday (117 percent). Additional occasions where capacity was greater than 50 percent were May weekday (85 percent), 4th of July holiday (62 percent), July weekend (58 percent), November weekend (57 percent), and May weekend (50 percent). Throughout the remainder of the year, capacity levels were less than 50 percent (Table 138).

The estimated facility capacity at SR 1744 reached 50 percent capacity or greater on numerous occasions throughout the year. Over 100 percent capacity was reached on April weekday (110 percent) and May weekend (118 percent), with 84 percent capacity reached April fishing weekend, 80 percent June weekend, 80 percent July 4 holiday, 70 percent July weekend, 66 percent July weekday, 58 percent May weekday, and 54 percent on the Memorial Day holiday in May. The remainder of the capacity reached throughout the year was 28 percent or less (Table 138).

There were six occasions where the Pee Dee Access exceeded the estimated maximum capacity; July 4 holiday (135 percent), April weekend (133 percent), July weekday (131 percent), August weekend (129 percent), June weekend (124 percent), and May weekend (113 percent). The facility reached 78 percent capacity April weekday, 72 percent capacity July weekend, and 63 percent May weekday. The Memorial Day holiday in May was estimated at 44 percent capacity, with the remainder of the year reaching 28 percent capacity or less (Table 138).

The estimated facility capacity at the Blewett Access was not greater than 38 percent capacity throughout the entire year. An estimated capacity of 38 percent was reached Labor Day holiday in September, with 34 percent in July weekend, 30 percent in May weekday, and 30 percent in July weekday (Table 138).

■ Lake Surface Capacity

The spot count observations provide some of the most useful results. This portion of the study was designed to represent the differing use conditions throughout the year. The results lead to several conclusions regarding the capacity evaluation. First, as expected, boating use levels vary widely throughout the year and are different for weekdays, weekends, and holidays. Even the peak use levels observed on the summer holidays and weekends and April fishing weekends seem well below the physical capacity of the lake. The highest levels observed were about one-half of both the facility capacity and the BOR-based physical capacity. By comparison, the access facilities at most lakes with serious boating capacity problems are filled to the maximum (or beyond) for most or all of the summer weekends, and typically show densities much higher than the BOR standards (Tables 141 and 143).

1.2.3 Social Capacity

Crowding is a negative evaluation of density or encounters; it involves a value judgment about the specified density number. To emphasize the evaluative nature of the concept, the term perceived crowding is often used.

For the purpose of clarity, the term crowding should not be substituted for high density or large numbers of people. Using this term confuses the objective impacts of larger numbers of people with the subjective evaluation of those impacts. Perceived crowding combines descriptive information (the density level experienced by the individual) with evaluative information (the individual's negative evaluation of that density or encounter level). When people evaluate an area as crowded, they have at least implicitly compared the condition they experienced (the impacts) with their perception of what is acceptable (their standards). If they conclude that the area is crowded, the existing conditions exceed their definition of a standard (one criterion for an area being over capacity).

An assessment of crowding was completed for each reservoir, focusing on the water surface and shoreline. Major steps in the assessments included:

1. A description of settings for each reservoir based on existing information, reconnaissance, and facility design.

2. Specifying indicator variables related to important social conditions for Lake Tillery and Blewett Lake Falls included: perceived crowding at access points and on the lake and comments by respondents on conditions that may have interfered with or presented conflict in their recreation experience;

To understand indicator variables related to important social conditions, visitors and residents were asked to express their level of concern for crowded conditions (low, medium, or high); and visitors were also asked their perception of ‘how crowded’ the lake was and the access point to the lake. The results of the survey demonstrated that crowding was not an issue at either Lake Tillery or Blewett Falls Lake for visitors and residents.

The results of the visitor and resident survey and spot counts lead to the conclusion that both lakes currently do not experience social capacity problems. To begin, the visitor and resident survey results related to crowding and other potential impacts of overuse support the conclusion that social capacity at Lake Tillery (Tables 31, 32, 49, 50, 89, and 90) and Blewett Falls Lake is at relatively low levels (Tables 41, 42, 53, 54, 94, and 95). This conclusion is based on the fact that perceived crowding is the most commonly used indicator of social capacity problems and relatively few people at Lake Tillery expressed much concern with levels of crowding on the lake.

Table 139 lists the significant relationships between estimated boating density for Lake Tillery and crowding variables. The relationship between the estimated boating density and perceived crowding was significant. Visitors were most likely to report level of concern with crowding under medium, not high, use conditions (Table 139). Further, even under the highest use conditions, less than 10 percent of the respondents considered the crowding unacceptable. Open-ended responses likewise did not center on crowding. Based on the results of the visitor survey, Lake Tillery appears to be an un-crowded lake.

Table 140 addresses the significant relationships between crowding and density variables for Blewett Falls Lake. With respect to visitor’s perceptions of crowding, utilizing all three crowding variables, the relationships between crowding variables and boat density was significant. Results indicated that under the highest use conditions, the majority of respondents had a low level of concern with respect to crowding interfering with their recreation experience. Additionally, the majority of respondents perceived the lake “not crowded” or “acceptable” during low to peak estimated boat densities. A similar result occurred with respect to visitor’s perceptions of crowding at the access points. The majority of respondents perceived the access points, even at estimated peak boating levels, as “not crowded” or “acceptable.”

Progress Energy performed a survey of boater use observed just downstream of each development. Table 158 provides the results of these observations.

Table 1 Lake Tillery estimated average visitor use estimate 2004-2005.

| Total Visitor Use Estimate per Year | | | | | | | | | | | | |
|--|----------------------------|------------------------------|----------------------------|------------------------------|------------------------------------|-----------------------------------|-------------------------------|---------------------|------------------------|-----------------|------------------------|-----------------------------|
| Month | Norwood Access Area | Stony Mountain Access | Swift Island Access | Lilly's Bridge Access | Informal SR 1740 & 1745 | Morrow Mountain State Park | Tillery Canoe Portage* | Twin Harbor* | Holiday Shores* | Woodrun* | Carolina Forest | Informal Access Area |
| Jan-05 | 130 | 227 | 156 | 149 | 11 | 227 | 0 | 0 | 21 | 84 | 42 | 42 |
| Feb-05 | 162 | 29 | 297 | 166 | 14 | 92 | 13 | 8 | 0 | 29 | 21 | 89 |
| Mar-05 | 334 | 145 | 652 | 242 | 28 | 358 | 5 | 48 | 75 | 37 | 84 | 129 |
| Apr-04 | 638 | 1,237 | 2,419 | 311 | 145 | 1,309 | 100 | 507 | 178 | 293 | 298 | 209 |
| May-04 | 616 | 390 | 3,120 | 441 | 51 | 1,242 | 236 | 658 | 165 | 297 | 558 | 286 |
| Jun-04 | 509 | 912 | 2,241 | 651 | 62 | 1,191 | 115 | 792 | 188 | 439 | 407 | 279 |
| Jul-04 | 802 | 718 | 2,634 | 642 | 182 | 1,259 | 52 | 1,219 | 224 | 379 | 562 | 226 |
| Aug-04 | 419 | 1,017 | 1,097 | 288 | 32 | 979 | 54 | 343 | 91 | 292 | 255 | 199 |
| Sep-04 | 337 | 209 | 713 | 225 | 43 | 555 | 61 | 193 | 31 | 113 | 81 | 132 |
| Oct-04 | 416 | 170 | 1,485 | 388 | 55 | 925 | 44 | 139 | 37 | 109 | 127 | 182 |
| Nov-04 | 234 | 115 | 654 | 327 | 34 | 1,121 | 28 | 63 | 38 | 21 | 66 | 267 |
| Dec-04 | 137 | 43 | 635 | 165 | 0 | 127 | 20 | 59 | 8 | 11 | 21 | 136 |
| Total | 4,734 | 5,212 | 16,103 | 3,995 | 657 | 9,385 | 728 | 4,029 | 1,056 | 2,104 | 2,522 | 2,176 |

*Private sites utilized by residents.

Table 2 Blewett Falls Lake estimated average visitor use estimate 2004-2005.

| Month | Blewett Falls Access-TW | Pee Dee Access Area | Grassy Islands Access Area | Blewett Falls Canoe Portage | U.S. Highway 74 Site | Informal Tailrace Access | Informal SR 1744 Site | Highway 109 |
|---------------|--------------------------------|----------------------------|-----------------------------------|------------------------------------|-----------------------------|---------------------------------|------------------------------|--------------------|
| Jan-05 | 34 | 49 | 57 | 10 | 53 | 11 | 0 | 17 |
| Feb-05 | 49 | 51 | 20 | 8 | 25 | 11 | 29 | 0 |
| Mar-05 | 148 | 253 | 85 | 19 | 67 | 142 | 21 | 21 |
| Apr-04 | 390 | 1,847 | 292 | 218 | 144 | 323 | 610 | 65 |
| May-04 | 467 | 1,993 | 266 | 197 | 158 | 353 | 664 | 58 |
| Jun-04 | 475 | 1,034 | 96 | 164 | 82 | 162 | 262 | 88 |
| Jul-04 | 359 | 1,639 | 178 | 100 | 59 | 113 | 525 | 141 |
| Aug-04 | 329 | 993 | 106 | 109 | 90 | 98 | 96 | 32 |
| Sep-04 | 174 | 290 | 42 | 108 | 40 | 116 | 50 | 29 |
| Oct-04 | 245 | 339 | 69 | 30 | 63 | 111 | 50 | 14 |
| Nov-04 | 123 | 134 | 133 | 45 | 148 | 12 | 16 | 5 |
| Dec-04 | 48 | 113 | 67 | 15 | 51 | 37 | 0 | 39 |
| Total | 2,840 | 8,733 | 1,410 | 1,024 | 979 | 1,490 | 2,324 | 509 |

Table 3 Socio-demographic profile of respondents at Lake Tillery.

| Socio-demographic Characteristics | Frequency | Percentage |
|-----------------------------------|-----------|------------|
| Gender (n ¹ =1152) | | |
| Female | 179 | 15.6 |
| Male | 970 | 84.4 |
| Age (n=1152) | | |
| Low-20 | 65 | 5.6 |
| 21-30 | 159 | 13.8 |
| 31-40 | 298 | 25.9 |
| 41-50 | 297 | 25.8 |
| 51-60 | 194 | 16.8 |
| 61-70 | 116 | 10.1 |
| 71and above | 23 | 2.0 |
| State of Residence (n=1118) | | |
| North Carolina | 1,129 | 97.4 |
| South Carolina | 19 | 1.6 |
| Florida | 2 | 0.2 |
| West Virginia | 2 | 0.2 |
| New Jersey | 1 | 0.1 |
| New Hampshire | 1 | 0.1 |
| Illinois | 1 | 0.1 |
| Georgia | 1 | 0.1 |
| Virginia | 1 | 0.1 |
| Wisconsin | 1 | 0.1 |

¹ The total number of respondents may vary because some individuals did not answer all of the questions.

Table 4 Lake Tillery - gender by location.

| Survey Location | Count | Gender | | Total |
|--------------------------------|------------------------|--------------|--------------|--------------|
| | | Female | Male | |
| Norwood Access Area | Count | 9 | 98 | 107 |
| | % Location | 8.4 | 91.6 | 100.0 |
| | % within Gender | 5.0 | 10.1 | 9.3 |
| | % of Total | 0.8 | 8.5 | 9.3 |
| Stony Mountain Access | Count | 10 | 79 | 89 |
| | % Location | 11.2 | 88.8 | 100.0 |
| | % within Gender | 5.6 | 8.1 | 7.7 |
| | % of Total | 0.9 | 6.9 | 7.7 |
| Swift Island Access | Count | 46 | 219 | 265 |
| | % Location | 17.4 | 82.6 | 100.0 |
| | % within Gender | 25.7 | 22.6 | 23.1 |
| | % of Total | 4.0 | 19.1 | 23.1 |
| Lilly's Bridge Access | Count | 25 | 185 | 210 |
| | % Location | 11.9 | 88.1 | 100.0 |
| | % within Gender | 14.0 | 19.1 | 18.3 |
| | % of Total | 2.2 | 16.1 | 18.3 |
| Informal SR 1740 & SR 1745 | Count | 9 | 31 | 40 |
| | % Location | 22.5 | 77.5 | 100.0 |
| | % within Gender | 5.0 | 3.2 | 3.5 |
| | % of Total | 0.8 | 2.7 | 3.5 |
| Morrow Mountain State Park | Count | 66 | 230 | 296 |
| | % Location | 22.3 | 77.7 | 100.0 |
| | % within Gender | 36.9 | 23.7 | 25.8 |
| | % of Total | 5.7 | 20.0 | 25.8 |
| Tillery Canoe Portage | Count | 2 | 36 | 38 |
| | % Location | 5.3 | 94.7 | 100.0 |
| | % within Gender | 1.1 | 3.7 | 3.3 |
| | % of Total | 0.2 | 3.1 | 3.3 |
| Informal Tailwater Access Area | Count | 10 | 90 | 100 |
| | % Location | 10.0 | 90.0 | 100.0 |
| | % within Gender | 5.6 | 9.3 | 8.7 |
| | % of Total | 0.9 | 7.8 | 8.7 |
| Location not identified | Count | 2 | 1 | 3 |
| | % Location | 66.7 | 33.3 | 100.0 |
| | % within Gender | 1.1 | 0.1 | 0.3 |
| | % of Total | 0.2 | 0.1 | 0.3 |
| Total (n=1151) | Count | 179 | 969 | 1,149 |
| | % Location | 15.6 | 84.3 | 100.0 |
| | % within Gender | 100.0 | 100.0 | 100.0 |

Table 5 **Socio-demographic profile of respondents at Blewett Falls Lake.**

| Socio-Demographic Characteristics | Frequency | Percentage |
|--|------------------|-------------------|
| Gender (n=667) | | |
| Female | 99 | 14.8 |
| Male | 568 | 85.2 |
| Age (n=637) | | |
| Low-20 | 24 | 3.8 |
| 21-30 | 106 | 16.6 |
| 31-40 | 137 | 21.5 |
| 41-50 | 153 | 24.0 |
| 51-60 | 116 | 18.2 |
| 61-70 | 81 | 12.7 |
| 71 and above | 20 | 3.1 |
| State of Residence (n=628) | | |
| North Carolina | 650 | 97.5 |
| South Carolina | 13 | 1.9 |
| Virginia | 2 | .3 |
| Florida | 1 | .1 |
| Alabama | 1 | .1 |

Table 6 **Blewett Falls Lake - gender by location.**

| Survey Location | Count | Gender | | Total |
|-------------------------------|-------------------|-------------|--------------|--------------|
| | | Female | Male | |
| Blewett Tailwater Access Area | Count | 17 | 114 | 131 |
| | % Location | 13.0 | 87.0 | 100.0 |
| | % within Gender | 17.3 | 20.2 | 19.8 |
| | % of Total | 2.6 | 17.2 | 19.8 |
| Pee Dee Access Area | Count | 23 | 138 | 161 |
| | % Location | 14.3 | 85.7 | 100.0 |
| | % within Gender | 23.5 | 24.5 | 24.4 |
| | % of Total | 3.5 | 20.9 | 24.4 |
| Grassy Islands Access Area | Count | 8 | 53 | 61 |
| | % Location | 13.1 | 86.9 | 100.0 |
| | % within Gender | 8.2 | 9.4 | 9.2 |
| | % of Total | 1.2 | 8.0 | 9.2 |
| Blewett Falls Canoe Portage | Count | 17 | 54 | 71 |
| | % Location | 23.9 | 76.1 | 100.0 |
| | % within Gender | 17.3 | 9.6 | 10.7 |
| | % of Total | 2.6 | 8.2 | 10.7 |
| U.S. Highway 74 Site | Count | 4.0 | 45.0 | 49.0 |
| | % Location | 8.2 | 91.8 | 100.0 |
| | % within Gender | 4.1 | 8.0 | 7.4 |
| | % of Total | 0.6 | 6.8 | 7.4 |
| Informal Tailrace Access | Count | 6.0 | 89.0 | 95.0 |
| | % Location | 6.3 | 93.7 | 100.0 |
| | % within Gender | 6.1 | 15.8 | 14.4 |
| | % of Total | 0.9 | 13.5 | 14.4 |
| Informal SR 1744 Site | Count | 20.0 | 56.0 | 76.0 |
| | % Location | 26.3 | 73.7 | 100.0 |
| | % within Gender | 20.4 | 9.9 | 11.5 |
| | % of Total | 3.0 | 8.5 | 11.5 |
| Highway 109 | Count | 3.0 | 14.0 | 17.0 |
| | % Location | 17.6 | 82.4 | 100.0 |
| | % within Gender | 3.1 | 2.5 | 2.6 |
| | % of Total | 0.5 | 2.1 | 2.6 |
| Total | Count | 98.0 | 563.0 | 661.0 |
| | % of Total | 14.8 | 85.2 | 100.0 |

Table 7 Lake Tillery - group size by access location.

| Access Areas | N | Mean | Std. Deviation | Minimum | Maximum |
|--------------------------------|-------------|-------------|----------------|----------|------------|
| Norwood Access Area | 113 | 2.12 | 1.211 | 1 | 7 |
| Stony Mountain Access | 90 | 3.66 | 11.445 | 1 | 110 |
| Swift Island Access | 276 | 2.95 | 2.232 | 1 | 22 |
| Lilly's Bridge Access | 216 | 2.68 | 1.796 | 1 | 15 |
| Informal SR 1740 & SR 1745 | 42 | 2.29 | 1.367 | 1 | 6 |
| Morrow Mountain State Park | 302 | 3.73 | 4.369 | 1 | 50 |
| Tillery Canoe Portage | 38 | 3.92 | 2.832 | 1 | 12 |
| Woodrun | 1 | 4.00 | . | 4 | 4 |
| Informal Tailwater Access Area | 101 | 2.19 | 1.255 | 1 | 9 |
| Total | 1179 | 3.02 | 4.181 | 1 | 110 |

Table 8 Lake Tillery - number of children per group.

| Access Areas | N | Mean | Std. Deviation | Minimum | Maximum |
|--------------------------------|-------------|------------|----------------|----------|-----------|
| Norwood Access Area | 113 | .32 | .685 | 0 | 3 |
| Stony Mountain Access | 90 | .34 | 1.219 | 0 | 10 |
| Swift Island Access | 277 | .64 | 1.233 | 0 | 8 |
| Lilly's Bridge Access | 216 | .55 | 1.090 | 0 | 7 |
| Informal SR 1740 & SR 1745 | 42 | .57 | .914 | 0 | 3 |
| Morrow Mountain State Park | 302 | 1.28 | 2.420 | 0 | 30 |
| Tillery Canoe Portage | 39 | 1.62 | 1.900 | 0 | 7 |
| Woodrun | 1 | 2.00 | | 2 | 2 |
| Informal Tailwater Access Area | 101 | .40 | .861 | 0 | 4 |
| Total | 1181 | .74 | 1.607 | 0 | 30 |

Table 9 Blewett Falls Lake - group size by access location.

| Access Areas | N | Mean | Std. Deviation | Minimum | Maximum |
|-------------------------------|------------|------------|----------------|----------|-----------|
| Blewett Tailwater Access Area | 138 | 2.2 | 1 | 1 | 10 |
| Pee Dee Access Area | 173 | 2.8 | 3 | 1 | 21 |
| Grassy Islands Access Area | 61 | 2.3 | 1 | 1 | 8 |
| Blewett Falls Canoe Portage | 71 | 2.9 | 2 | 1 | 14 |
| U.S. Highway 74 Site | 48 | 2.4 | 1 | 1 | 9 |
| Informal Tailrace Access | 102 | 2.4 | 2 | 1 | 15 |
| Informal SR 1744 Site | 78 | 4.0 | 5 | 1 | 41 |
| Highway 109 | 17 | 2.0 | 1 | 1 | 4 |
| Total | 688 | 2.7 | 3 | 1 | 41 |

Table 10 **Blewett Falls Lake - number of Children.**

| Access Areas | N | Mean | Std. Deviation | Minimum | Maximum |
|-------------------------------|------------|-------------|-----------------------|----------------|----------------|
| Blewett Tailwater Access Area | 138 | .31 | .781 | 0 | 4 |
| Pee Dee Access Area | 173 | .57 | 1.132 | 0 | 6 |
| Grassy Islands Access Area | 61 | .33 | .569 | 0 | 2 |
| Blewett Falls Canoe Portage | 71 | .70 | 1.269 | 0 | 6 |
| U.S. Highway 74 Site | 49 | .37 | .809 | 0 | 3 |
| Informal Tailrace Access | 102 | .62 | 1.653 | 0 | 12 |
| Informal SR 1744 Site | 78 | .95 | 1.906 | 0 | 11 |
| Highway 109 | 17 | .06 | .243 | 0 | 1 |
| Total | 689 | .53 | 1.239 | 0 | 12 |

Table 11 **Frequency of visitation to Lake Tillery.**

| Frequency of Visitation | Frequency | Percent |
|--------------------------------|------------------|----------------|
| First-time visitor | 35 | 2.9 |
| 1-5 times per year | 364 | 30.3 |
| 6-10 times per year | 195 | 16.2 |
| 11-20 times per year | 230 | 19.2 |
| 21-50 times per year | 217 | 18.1 |
| 51-100 times per year | 91 | 7.6 |
| ≥ 100 times per year | 69 | 5.7 |
| Total | 1,201 | 100.0 |

Table 12 Frequency of visitation by survey location for Lake Tillery.

| Location | Count | First Time | Recreation Visits per Year | | | | | | Total |
|--------------------------------|-------------------|------------|----------------------------|-------------|-------------|-------------|------------|------------|--------------|
| | | | 1-5 | 6-10 | 11-20 | 21-50 | 51-100 | ≥100 | |
| Norwood Access Area | Count | 1 | 10 | 15 | 29 | 38 | 12 | 12 | 117 |
| | % w/in Location | 0.9 | 8.5 | 12.8 | 24.8 | 32.5 | 10.3 | 10.3 | 100.0 |
| | % of Total | 0.1 | 0.8 | 1.3 | 2.4 | 3.2 | 1.0 | 1.0 | 9.8 |
| Stony Mountain Access | Count | 1 | 24 | 16 | 19 | 19 | 4 | 5 | 88 |
| | % w/in Location | 1.1 | 27.3 | 18.2 | 21.6 | 21.6 | 4.5 | 5.7 | 100.0 |
| | % of Total | 0.1 | 2.0 | 1.3 | 1.6 | 1.6 | 0.3 | 0.4 | 7.4 |
| Swift Island Access | Count | 7 | 62 | 51 | 59 | 55 | 26 | 21 | 281 |
| | % w/in Location | 2.5 | 22.1 | 18.1 | 21.0 | 19.6 | 9.3 | 7.5 | 100.0 |
| | % of Total | 0.6 | 5.2 | 4.3 | 4.9 | 4.6 | 2.2 | 1.8 | 23.5 |
| Lilly's Bridge Access | Count | 8 | 42 | 36 | 49 | 52 | 20 | 10 | 217 |
| | % w/in Location | 3.7 | 19.4 | 16.6 | 22.6 | 24.0 | 9.2 | 4.6 | 100.0 |
| | % of Total | 0.7 | 3.5 | 3.0 | 4.1 | 4.3 | 1.7 | 0.8 | 18.1 |
| Informal SR 1740 & SR 1745 | Count | 1 | 16 | 3 | 7 | 3 | 9 | 3 | 42 |
| | % w/in Location | 2.4 | 38.1 | 7.1 | 16.7 | 7.1 | 21.4 | 7.1 | 100.0 |
| | % of Total | 0.1 | 1.3 | 0.3 | 0.6 | 0.3 | 0.8 | 0.3 | 3.5 |
| Morrow Mountain State Park | Count | 15 | 170 | 52 | 39 | 24 | 7 | 3 | 310 |
| | % w/in Location | 4.8 | 54.8 | 16.8 | 12.6 | 7.7 | 2.3 | 1.0 | 100.0 |
| | % of Total | 1.3 | 14.2 | 4.3 | 3.3 | 2.0 | 0.6 | 0.3 | 25.9 |
| Tillery Canoe Portage | Count | 1 | 9 | 7 | 9 | 10 | 1 | 2 | 39 |
| | % w/in Location | 2.6 | 23.1 | 17.9 | 23.1 | 25.6 | 2.6 | 5.1 | 100.0 |
| | % of Total | 0.1 | 0.8 | 0.6 | 0.8 | 0.8 | 0.1 | 0.2 | 3.3 |
| Woodrun | Count | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | % w/in Location | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| Informal Tailwater Access Area | Count | 1 | 29 | 15 | 17 | 15 | 11 | 13 | 101 |
| | % w/in Location | 1.0 | 28.7 | 14.9 | 16.8 | 14.9 | 10.9 | 12.9 | 100.0 |
| | % of Total | 0.1 | 2.4 | 1.3 | 1.4 | 1.3 | 0.9 | 1.1 | 8.4 |
| Total | Count | 35 | 362 | 195 | 228 | 216 | 91 | 69 | 1196 |
| | % of Total | 2.9 | 30.3 | 16.3 | 19.1 | 18.1 | 7.6 | 5.8 | 100.0 |

Table 13 Number of hours spent at Lake Tillery.

| Survey Location | Hours spent at the lake today | | | Total |
|--------------------------------|-------------------------------|--------------|-------------|---------------|
| | 1-4 hours | 4-8 hours | > 8 hours | |
| Norwood Access Area | 59 | 51 | 7 | 117 |
| Stony Mountain Access | 37 | 31 | 18 | 86 |
| Swift Island Access | 121 | 124 | 35 | 280 |
| Lilly's Bridge Access | 118 | 89 | 10 | 217 |
| Informal SR 1740 & SR 1745 | 30 | 10 | 1 | 41 |
| Morrow Mountain State Park | 180 | 101 | 22 | 303 |
| Tillery Canoe Portage | 21 | 13 | 5 | 39 |
| Woodrun | 1 | 0 | 0 | 1 |
| Informal Tailwater Access Area | 76 | 21 | 5 | 102 |
| Total Count | 643 | 440 | 103 | 1186 |
| Total Percent | 54.2% | 37.1% | 8.7% | 100.0% |

Table 14 Number of nights spent at Lake Tillery.

| Survey Location | Number of Nights | | | | | Total |
|--------------------------------|------------------|--------------|---------------|--------------|-------------|---------------|
| | 1 night | 2 nights | 3 nights | 3-7 nights | >7 nights | |
| Norwood Access Area | 4 | 3 | 0 | 1 | 0 | 8 |
| Stony Mountain Access | 10 | 4 | 1 | 1 | 0 | 16 |
| Swift Island Access | 23 | 12 | 5 | 2 | 0 | 42 |
| Lilly's Bridge Access | 5 | 6 | 14 | 4 | 0 | 29 |
| Informal SR 1740 & SR 1745 | 2 | 0 | 0 | 0 | 0 | 2 |
| Morrow Mountain State Park | 21 | 42 | 10 | 15 | 1 | 89 |
| Tillery Canoe Portage | 8 | 0 | 0 | 0 | 0 | 8 |
| Informal Tailwater Access Area | 3 | 1 | 0 | 0 | 0 | 4 |
| Total Count | 76 | 68 | 30 | 23 | 1 | 198 |
| Total Percent | 38.4% | 34.3% | 15.2 % | 11.6% | 0.5% | 100.0% |

Table 15 Frequency of visitation to Blewett Falls Lake.

| Frequency of Visitation | Frequency | Percent |
|-------------------------|------------|--------------|
| First-time visitor | 10 | 1.4 |
| 1-5 times per year | 112 | 15.9 |
| 6-10 times per year | 96 | 13.6 |
| 11-20 times per year | 143 | 20.3 |
| 21-50 times per year | 175 | 24.9 |
| 51-100 times per year | 93 | 13.2 |
| ≥ 100 times per year | 75 | 10.7 |
| Total | 704 | 100.0 |

Table 16 Frequency of visitation by survey location for Blewett Falls Lake.

| Survey Location | | Recreation Visits per Year | | | | | | | Total |
|-------------------------------|-------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| | | First Visit | 1-5 | 6-10 | 11-20 | 21-50 | 51-100 | > 100 | |
| Blewett Tailwater Access Area | Count | 3 | 22 | 17 | 26 | 35 | 24 | 14 | 141 |
| | % within location | 2.1% | 15.5% | 12.0% | 18.4% | 24.6% | 16.9% | 9.9% | 100.0% |
| | %Total | .4% | 3.1% | 2.4% | 3.9% | 5.0% | 3.4% | 2.0% | 20.2% |
| Pee Dee Access Area | Count | 2 | 33 | 28 | 35 | 43 | 22 | 15 | 178 |
| | % within location | 1.1% | 18.5% | 15.7% | 19.7% | 24.2% | 12.4% | 8.4% | 100.0% |
| | %Total | .3% | 4.7% | 4.0% | 5.0% | 6.2% | 3.1% | 2.1% | 25.5% |
| Grassy Islands Access Area | Count | 0 | 7 | 6 | 10 | 20 | 11 | 8 | 62 |
| | % within location | .0% | 11.3% | 9.7% | 16.1% | 32.3% | 17.7% | 12.9% | 100.0% |
| | %Total | .0% | 1.0% | .9% | 1.4% | 2.9% | 1.6% | 1.1% | 8.9% |
| Blewett Falls Canoe Portage | Count | 2 | 20 | 11 | 15 | 13 | 8 | 3 | 72 |
| | % within location | 2.8% | 27.8% | 15.3% | 20.8% | 18.1% | 11.1% | 4.2% | 100.0% |
| | %Total | .3% | 2.9% | 1.6% | 2.1% | 1.9% | 1.1% | .4% | 10.3% |
| U.S. Highway 74 Site | Count | 2 | 12 | 6 | 8 | 10 | 1 | 8 | 47 |
| | % within location | 4.3% | 25.5% | 12.8% | 17.0% | 21.3% | 2.1% | 17.0% | 100.0% |
| | %Total | .3% | 1.7% | .9% | 1.1% | 1.4% | .1% | 1.1% | 6.7% |
| Informal Tailrace Access | Count | 1 | 10 | 11 | 24 | 31 | 12 | 15 | 104 |
| | % within location | 1.0% | 9.6% | 10.6% | 23.1% | 29.8% | 11.5% | 14.4% | 100.0% |
| | %Total | .1% | 1.4% | 1.6% | 3.4% | 4.4% | 1.7% | 2.1% | 14.9% |
| Informal SR 1744 Site | Count | 0 | 5 | 11 | 17 | 19 | 15 | 10 | 77 |
| | % within location | .0% | 6.5% | 14.3% | 22.1% | 24.7% | 19.5% | 13.0% | 100.0% |
| | %Total | .0% | .7% | 1.6% | 2.4% | 2.7% | 2.1% | 1.4% | 11.0% |
| Highway 109 | Count | 0 | 1 | 5 | 7 | 3 | 0 | 1 | 17 |
| | % within location | .0% | 5.9% | 29.4% | 41.2% | 17.6% | .0% | 5.9% | 100.0% |
| | %Total | .0% | .1% | .7% | 1.0% | .4% | .0% | .1% | 2.4% |
| Total | Count | 10 | 110 | 95 | 142 | 174 | 93 | 74 | 698 |
| | %Total | 1.4% | 15.7% | 13.6% | 20.3% | 24.9% | 13.3% | 10.6% | 100.0% |

Table 17 Number of hours spent at Blewett Falls Lake.

| Survey Location | Hours spent on the lake today | | | Total |
|-------------------------------|-------------------------------|--------------|----------------|---------------|
| | 1-4 hours | 4-8 hours | > than 8 hours | |
| Blewett Tailwater Access Area | 85 | 43 | 12 | 140 |
| Pee Dee Access Area | 79 | 76 | 18 | 173 |
| Grassy Islands Access Area | 29 | 23 | 12 | 64 |
| Blewett Falls Canoe Portage | 36 | 30 | 5 | 71 |
| U.S. Highway 74 Site | 23 | 21 | 5 | 49 |
| Informal Tailrace Access | 51 | 43 | 9 | 103 |
| Informal SR 11744 Site | 31 | 29 | 17 | 77 |
| Highway 109 | 11 | 6 | 0 | 17 |
| Total Count | 345 | 271 | 78 | 694 |
| Total Percent | 49.7% | 39.0% | 11.2% | 100.0% |

Table 18 Number of nights spent at Blewett Falls Lake.

| Survey Location | Number of Nights | | | | Total |
|-------------------------------|------------------|--------------|--------------|--------------|---------------|
| | 1 night | 2 nights | 3 nights | 4-7 nights | |
| Blewett Tailwater Access Area | 13 | 6 | 3 | 1 | 23 |
| Pee Dee Access Area | 10 | 10 | 9 | 1 | 30 |
| Grassy Islands Access Area | 10 | 5 | 3 | 3 | 21 |
| Blewett Falls Canoe Portage | 6 | 4 | 1 | 3 | 14 |
| U.S. Highway 74 Site | 6 | 0 | 2 | 3 | 11 |
| Informal Tailrace Access | 9 | 5 | 1 | 0 | 15 |
| Informal SR 1744 Site | 11 | 8 | 5 | 8 | 32 |
| Highway 109 | 1 | 0 | 0 | 0 | 1 |
| Total Count | 66 | 38 | 24 | 19 | 147 |
| Total Percent | 44.9% | 25.9% | 16.3% | 12.9% | 100.0% |

Lake Tillery**Table 19 Recreational activities reported in the past 12 months at Lake Tillery.**

| Survey Location | Activity | | | | | | | | | | | | | | |
|---------------------------------|---------------|--------------|--------------|------------|----------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|------------|------------|------------------|
| | Motor boating | Boat fishing | Bank fishing | Canoeing | River canoeing | Hiking | Swimming | Jet skiing | Water skiing | Camping | Picnicking | Sun bathing | Sailing | Hunting | Wildlife viewing |
| Norwood Access Area | 45 | 95 | 18 | 0 | 1 | 3 | 28 | 21 | 23 | 6 | 11 | 9 | 2 | 7 | 4 |
| Stony Mtn. Access | 22 | 41 | 49 | 0 | 1 | 2 | 17 | 6 | 13 | 15 | 7 | 11 | 1 | 5 | 1 |
| Swift Island Access | 128 | 205 | 40 | 3 | 1 | 4 | 101 | 46 | 78 | 28 | 27 | 50 | 0 | 14 | 8 |
| Lilly's Bridge Access | 77 | 139 | 65 | 2 | 0 | 0 | 66 | 36 | 39 | 14 | 24 | 28 | 2 | 2 | 7 |
| Informal SR 1740 & SR 1745 | 4 | 9 | 39 | 1 | 0 | 2 | 6 | 0 | 1 | 6 | 5 | 2 | 0 | 3 | 4 |
| Morrow Mountain State Park | 37 | 89 | 157 | 61 | 15 | 125 | 68 | 10 | 9 | 127 | 117 | 44 | 0 | 5 | 105 |
| Tillery Canoe Portage | 5 | 8 | 378 | 0 | 0 | 0 | 11 | 1 | 1 | 10 | 9 | 5 | 0 | 2 | 1 |
| Woodrun | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Informal Tailwater Access Area | 11 | 32 | 84 | 2 | 2 | 0 | 8 | 3 | 5 | 8 | 6 | 5 | 0 | 5 | 7 |
| Total n | 329 | 619 | 490 | 69 | 20 | 136 | 305 | 123 | 169 | 214 | 206 | 154 | 5 | 43 | 137 |
| % of Population (N=1209) | 27.2 | 51.2 | 40.5 | 5.7 | 1.7 | 11.2 | 25.2 | 10.2 | 14.0 | 17.7 | 17.0 | 12.7 | 0.4 | 3.6 | 11.3 |

Table 20 Primary recreation activity/reason for visiting Lake Tillery.

| Survey Location | Primary Activity/Reason for Visiting | | | | | | | | | | | | | | | |
|----------------------------------|--------------------------------------|--------------|--------------|---------------|----------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------------|-------------|------------|
| | Motor boating | Boat Fishing | Bank Fishing | Lake Canoeing | River canoeing | Hiking | Swimming | Jet Skiing | Water skiing | Camping | Picnicking | Sunbathing | Hunting | Wildlife Viewing | Sightseeing | Other |
| Norwood Access Area | 23 | 82 | 7 | 0 | 0 | 0 | 2 | 8 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Stony Mountain Access | 8 | 29 | 40 | 0 | 0 | 0 | 3 | 4 | 1 | 6 | 1 | 0 | 0 | 2 | 0 | 4 |
| Swift Island Access | 92 | 175 | 11 | 0 | 0 | 0 | 24 | 15 | 15 | 1 | 0 | 5 | 0 | 1 | 1 | 7 |
| Lilly's Bridge Access | 48 | 100 | 45 | 1 | 0 | 1 | 8 | 19 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 6 |
| Informal SR 1740 & SR 1745 | 0 | 0 | 41 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Morrow Mountain State Park | 4 | 44 | 104 | 31 | 7 | 55 | 8 | 3 | 1 | 58 | 46 | 2 | 0 | 33 | 1 | 22 |
| Tillery Canoe Portage | 0 | 2 | 33 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 1 | 0 | 0 |
| Informal Tailwater Access Area | 1 | 15 | 82 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| Total N | 176 | 447 | 363 | 33 | 7 | 57 | 47 | 50 | 28 | 70 | 50 | 11 | 2 | 40 | 2 | 45 |
| % of Population Sampled (N=1208) | 14.6 | 37. | 30.0 | 2.7 | 0.6 | 4.7 | 3.9 | 4.1 | 2.3 | 5.8 | 4.1 | 0.9 | 0.2 | 3.3 | 0.2 | 3.7 |

Table 21 Recreation activities have/will participated in today.

| Survey Location | Activity | | | | | | | | | | | | | | |
|----------------------------------|---------------|--------------|--------------|---------------|----------------|------------|------------|------------|--------------|------------|-------------|-------------|------------|------------------|--------------------|
| | Motor boating | Boat fishing | Bank fishing | Lake canoeing | River canoeing | Hiking | Swimming | Jet skiing | Water skiing | Camping | Picnic-king | Sun bathing | Hunting | Wildlife viewing | Tail water fishing |
| Norwood Access Area | 22 | 80 | 7 | 0 | 0 | 0 | 5 | 10 | 5 | 0 | 2 | 3 | 1 | 0 | 0 |
| Stony Mountain Access | 8 | 29 | 42 | 0 | 0 | 1 | 5 | 4 | 2 | 6 | 0 | 1 | 0 | 3 | 0 |
| Swift Island Access | 86 | 163 | 10 | 0 | 0 | 0 | 44 | 24 | 37 | 3 | 7 | 31 | 0 | 5 | 0 |
| Lilly's Bridge Access | 37 | 71 | 32 | 1 | 0 | 1 | 28 | 13 | 12 | 3 | 9 | 18 | 0 | 2 | 0 |
| Informal SR 1740 & SR 1745 | 0 | 0 | 41 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| Morrow Mountain State Park | 5 | 48 | 133 | 34 | 10 | 69 | 31 | 2 | 2 | 67 | 74 | 14 | 0 | 58 | 4 |
| Tillery Canoe Portage | 0 | 1 | 35 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 1 | 6 | 0 | 1 | 0 |
| Informal Tailwater Access Area | 1 | 15 | 79 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 9 |
| Total N | 159 | 407 | 379 | 35 | 10 | 72 | 119 | 54 | 58 | 81 | 94 | 74 | 1 | 72 | 13 |
| % of Population Sampled (N=1209) | 13.2 | 33.6 | 31.3 | 2.9 | 0.8 | 6.0 | 9.8 | 4.5 | 4.8 | 6.7 | 7.8 | 6.1 | 0.1 | 6.0 | 1.1 |

Table 22 Participation in night time activities at Lake Tillery.

| Survey Location | Count/% | Participate in Night Time Activities | | Total |
|--------------------------------|----------------------------|--------------------------------------|--------------|--------------|
| | | Yes | No | |
| Norwood Access Area | Count | 53 | 47 | 100 |
| | % within location | 53.0 | 47.0 | 100.0 |
| | % within Activities | 10.1 | 8.5 | 9.3 |
| | % of Total | 4.9 | 4.3 | 9.3 |
| Stony Mountain Access | Count | 45 | 32 | 77 |
| | % within location | 58.4 | 41.6 | 100.0 |
| | % within Activities | 8.5 | 5.8 | 7.1 |
| | % of Total | 4.2 | 3.0 | 7.1 |
| Swift Island Access | Count | 145 | 115 | 260 |
| | % within location | 55.8 | 44.2 | 100.0 |
| | % within Activities | 27.5 | 20.8 | 24.1 |
| | % of Total | 13.4 | 10.6 | 24.1 |
| Lilly's Bridge Access | Count | 81 | 106 | 187 |
| | % within location | 43.3 | 56.7 | 100.0 |
| | % within Activities | 15.4 | 19.1 | 17.3 |
| | % of Total | 7.5 | 9.8 | 17.3 |
| Informal SR 1740 & SR 1745 | Count | 17 | 15 | 32 |
| | % within location | 53.1 | 46.9 | 100.0 |
| | % within Activities | 3.2 | 2.7 | 3.0 |
| | % of Total | 1.6 | 1.4 | 3.0 |
| Morrow Mountain State Park | Count | 122 | 167 | 289 |
| | % within location | 42.2 | 57.8 | 100.0 |
| | % within Activities | 23.1 | 30.1 | 26.7 |
| | % of Total | 11.3 | 15.4 | 26.7 |
| Tillery Canoe Portage | Count | 16 | 19 | 35 |
| | % within location | 45.7 | 54.3 | 100.0 |
| | % within Activities | 3.0 | 3.4 | 3.2 |
| | % of Total | 1.5 | 1.8 | 3.2 |
| Informal Tailwater Access Area | Count | 47 | 53 | 100 |
| | % within location | 47.0 | 53.0 | 100.0 |
| | % within Activities | 8.9 | 9.6 | 9.3 |
| | % of Total | 4.3 | 4.9 | 9.3 |
| Total | Count | 526 | 554 | 1081 |
| | % within Activities | 100.0 | 100.0 | 100.0 |
| | % of Total | 48.8 | 51.2 | 100.0 |

Table 23 Types of night time activities at Lake Tillery.

| Survey Location | Count | Night Time Activity | | | | | | | | Total |
|--------------------------------|--|---------------------|--------------|------------------|--------------------|-------------|------------|---------------|------------|--------------|
| | | Boat fishing | Bank fishing | Wildlife viewing | Tail-water fishing | Camping | Hiking | Motor boating | Other | |
| Norwood Access Area | Count | 46 | 4 | 0 | 0 | 3 | 0 | 4 | 2 | 59 |
| | % within location | 78.0 | 6.8 | 0.0 | 0.0 | 5.1 | 0.0 | 6.8 | 3.4 | 100.0 |
| Stony Mountain Access | Count | 22 | 18 | 0 | 0 | 15 | 0 | 4 | 5 | 64 |
| | % within location | 34.4 | 28.1 | 0.0 | 0.0 | 23.4 | 0.0 | 6.3 | 7.8 | 100.0 |
| Swift Island Access | Count | 108 | 17 | 3 | 4 | 18 | 0 | 37 | 6 | 193 |
| | % within location | 56.0 | 8.8 | 1.6 | 2.1 | 9.3 | 0.0 | 19.2 | 3.1 | 100.0 |
| Lilly's Bridge Access | Count | 49 | 28 | 0 | 0 | 9 | 1 | 10 | 2 | 99 |
| | % within location | 49.5 | 28.3 | 0.0 | 0.0 | 9.1 | 1.0 | 10.1 | 2.0 | 100.0 |
| Informal SR 1740 & SR 1745 | Count | 1 | 16 | 0 | 0 | 2 | 0 | 0 | 0 | 19 |
| | % within location | 5.3 | 84.2 | 0.0 | 0.0 | 10.5 | 0.0 | 0.0 | 0.0 | 100.0 |
| Morrow Mountain State Park | Count | 26 | 31 | 12 | 1 | 94 | 11 | 1 | 5 | 181 |
| | % within location | 14.4 | 17.1 | 6.6 | 0.6 | 51.9 | 6.1 | 0.6 | 2.8 | 100.0 |
| Tillery Canoe Portage | Count | 1 | 15 | 0 | 0 | 6 | 0 | 0 | 0 | 22 |
| | % within location | 4.5 | 68.2 | 0.0 | 0.0 | 27.3 | 0.0 | 0.0 | 0.0 | 100.0 |
| Informal Tailwater Access Area | Count | 12 | 37 | 1 | 5 | 4 | 0 | 2 | 3 | 64 |
| | % within location | 18.8 | 57.8 | 1.6 | 7.8 | 6.3 | 0.0 | 3.1 | 4.7 | 100.0 |
| Total | Count | 265 | 166 | 16 | 10 | 151 | 12 | 58 | 23 | 701 |
| | % within total | 37.8 | 23.6 | 2.3 | 1.4 | 21.5 | 1.7 | 8.3 | 3.3 | 100.0 |
| | % of Night Time Activity Participants (N=526) | 50.5 | 31.5 | 3.0 | 1.9 | 28.7 | 2.3 | 11.0 | 4.4 | |

Blewett Falls Lake**Table 24 Recreational activities reported in the past 12 months at Blewett Falls Lake.**

| Survey Location | Activity | | | | | | | | | | | | | | |
|--|---------------|--------------|--------------|------------|----------------|------------|-------------|------------|--------------|-------------|-------------|-------------|------------|-------------|------------------|
| | Motor boating | Boat fishing | Bank fishing | Canoeing | River canoeing | Hiking | Swimming | Jet skiing | Water skiing | Camping | Picnicking | Sun bathing | Sailing | Hunting | Wildlife viewing |
| Blewett Tailwater Access Area | 21 | 57 | 123 | 2 | 2 | 2 | 15 | 5 | 6 | 20 | 11 | 8 | 0 | 16 | 7 |
| Pee Dee Access Area | 72 | 144 | 31 | 0 | 0 | 1 | 42 | 22 | 41 | 54 | 20 | 11 | 0 | 11 | 7 |
| Grassy Islands Access Area | 21 | 54 | 24 | 3 | 5 | 5 | 13 | 1 | 5 | 24 | 6 | 7 | 0 | 18 | 9 |
| Blewett Falls Canoe Portage | 14 | 25 | 49 | 0 | 0 | 6 | 25 | 9 | 5 | 16 | 21 | 8 | 0 | 3 | 12 |
| U.S. Highway 74 Site | 8 | 32 | 26 | 2 | 5 | 5 | 6 | 4 | 4 | 7 | 5 | 2 | 0 | 8 | 6 |
| Informal Tailrace Access | 16 | 56 | 74 | 1 | 3 | 5 | 17 | 5 | 5 | 15 | 8 | 8 | 0 | 6 | 6 |
| Informal SR 1744 Site | 31 | 45 | 56 | 3 | 2 | 7 | 37 | 13 | 13 | 40 | 33 | 19 | 0 | 10 | 15 |
| Highway 109 | 4 | 12 | 11 | 0 | 1 | 0 | 1 | 1 | 1 | 4 | 0 | 1 | 0 | 3 | 2 |
| Total N | 187 | 425 | 394 | 11 | 18 | 31 | 156 | 60 | 80 | 180 | 104 | 64 | 0 | 75 | 64 |
| % of Population Sampled (N=711) | 26.3 | 59.8 | 55.4 | 1.5 | 2.5 | 4.4 | 21.9 | 8.4 | 11.3 | 25.3 | 14.6 | 9.0 | 0.0 | 10.5 | 9.0 |

Table 25 Primary recreation activity/reason for visiting Blewett Falls Lake.

| Survey Location | Primary Activity/Reason for Visiting | | | | | | | | | | | | | | | |
|--|--------------------------------------|--------------|--------------|---------------|----------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------------|--------------------|------------|
| | Motor boating | Boat Fishing | Bank Fishing | Lake Canoeing | River Canoeing | Hiking | Swimming | Jet Skiing | Water Skiing | Camping | Picnicking | Sunbathing | Hunting | Wildlife Viewing | Tail-water Fishing | Other |
| Blewett Tailwater Access Area | 4 | 19 | 115 | 2 | 1 | 1 | 5 | 3 | 5 | 6 | 2 | 4 | 4 | 2 | 1 | 5 |
| Pee Dee Access Area | 49 | 118 | 9 | 0 | 0 | 0 | 10 | 14 | 14 | 12 | 2 | 1 | 1 | 3 | 0 | 9 |
| Grassy Islands Access Area | 8 | 46 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 8 | 4 | 0 | 3 |
| Blewett Falls Canoe Portage | 3 | 8 | 41 | 0 | 0 | 4 | 14 | 2 | 1 | 4 | 15 | 5 | 0 | 6 | 0 | 4 |
| U.S. Highway 74 Site | 3 | 26 | 17 | 0 | 2 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 3 | 4 | 0 | 3 |
| Informal Tailrace Access | 4 | 34 | 66 | 2 | 0 | 0 | 7 | 0 | 0 | 5 | 3 | 5 | 1 | 4 | 0 | 3 |
| Informal SR 1744 Site | 5 | 23 | 28 | 0 | 0 | 3 | 15 | 5 | 0 | 18 | 11 | 8 | 6 | 6 | 0 | 6 |
| Highway 109 | 1 | 8 | 7 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 1 |
| Total N | 77 | 282 | 291 | 5 | 4 | 9 | 54 | 26 | 21 | 48 | 34 | 26 | 24 | 31 | 1 | 34 |
| % of Population Sampled (N=711) | 10.8 | 39.7 | 40.9 | 0.7 | 0.6 | 1.3 | 7.6 | 3.7 | 3.0 | 6.8 | 4.8 | 3.7 | 3.4 | 4.4 | 0.1 | 4.8 |

Table 26 Recreation activities have/will participate in today at Blewett Falls Lake.

| Survey Location | Activity | | | | | | | | | | | | | | |
|--|---------------|--------------|--------------|---------------|----------------|------------|------------|------------|--------------|------------|-------------|-------------|------------|------------------|--------------------|
| | Motor boating | Boat fishing | Bank fishing | Lake canoeing | River canoeing | Hiking | Swimming | Jet skiing | Water skiing | Camping | Picnic-king | Sun bathing | Hunting | Wildlife viewing | Tail water fishing |
| Blewett Tailwater Access Area | 5 | 15 | 108 | 0 | 0 | 1 | 5 | 2 | 3 | 2 | 4 | 3 | 0 | 4 | 30 |
| Pee Dee Access Area | 52 | 114 | 4 | 0 | 0 | 0 | 17 | 10 | 18 | 10 | 4 | 8 | 1 | 2 | 0 |
| Grassy Islands Access Area | 7 | 35 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 5 | 3 | 3 | 0 |
| Blewett Falls Canoe Portage | 0 | 6 | 35 | 0 | 0 | 5 | 16 | 0 | 0 | 3 | 17 | 8 | 0 | 8 | 0 |
| U.S. Highway 74 Site | 2 | 22 | 17 | 0 | 2 | 2 | 1 | 0 | 0 | 1 | 2 | 1 | 2 | 6 | 2 |
| Informal Tailrace Access | 2 | 28 | 64 | 0 | 1 | 1 | 6 | 0 | 0 | 2 | 5 | 8 | 1 | 4 | 2 |
| Informal SR 1744 Site | 5 | 16 | 25 | 0 | 0 | 2 | 23 | 6 | 3 | 10 | 15 | 18 | 3 | 5 | 1 |
| Highway 109 | 2 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 0 |
| Total N | 75 | 245 | 264 | 1 | 4 | 12 | 68 | 18 | 24 | 30 | 48 | 52 | 10 | 35 | 35 |
| % of Population Sampled (N=711) | 10.5 | 34.5 | 37.1 | 0.1 | 0.6 | 1.7 | 9.6 | 2.5 | 3.4 | 4.2 | 6.8 | 7.3 | 1.4 | 4.9 | 4.9 |

Table 27 Participation in night time activities at Blewett Falls Lake.

| Access Areas | Count | Participation in Night Time Activities | | Total |
|-------------------------------|--------------------------|--|--------------|--------------|
| | | Yes | No | |
| Blewett Tailwater Access Area | Count | 70 | 60 | 130 |
| | % within location | 53.8 | 46.2 | 100.0 |
| | % within activity | 19.4 | 24.1 | 21.3 |
| | % of Total | 11.5 | 9.9 | 21.3 |
| Pee Dee Access Area | Count | 87 | 60 | 147 |
| | % within location | 59.2 | 40.8 | 100.0 |
| | % within activity | 24.2 | 24.1 | 24.1 |
| | % of Total | 14.3 | 9.9 | 24.1 |
| Grassy Islands Access Area | Count | 35 | 16 | 51 |
| | % within location | 68.6 | 31.4 | 100.0 |
| | % within activity | 9.7 | 6.4 | 8.4 |
| | % of Total | 5.7 | 2.6 | 8.4 |
| Blewett Falls Canoe Portage | Count | 30 | 29 | 59 |
| | % within location | 50.8 | 49.2 | 100.0 |
| | % within activity | 8.3 | 11.6 | 9.7 |
| | % of Total | 4.9 | 4.8 | 9.7 |
| U.S. Highway 74 Site | Count | 21 | 16 | 37 |
| | % within location | 56.8 | 43.2 | 100.0 |
| | % within activity | 5.8 | 6.4 | 6.1 |
| | % of Total | 3.4 | 2.6 | 6.1 |
| Informal Tailrace Access | Count | 52 | 42 | 94 |
| | % within location | 55.3 | 44.7 | 100.0 |
| | % within activity | 14.4 | 16.9 | 15.4 |
| | % of Total | 8.5 | 6.9 | 15.4 |
| Informal SR 1744 Site | Count | 55 | 20 | 75 |
| | % within location | 73.3 | 26.7 | 100.0 |
| | % within activity | 15.3 | 8.0 | 12.3 |
| | % of Total | 9.0 | 3.3 | 12.3 |
| Highway 109 | Count | 10 | 6 | 16 |
| | % within location | 62.5 | 37.5 | 100.0 |
| | % within activity | 2.8 | 2.4 | 2.6 |
| | % of Total | 1.6 | 1.0 | 2.6 |
| Total | Count | 360 | 249 | 609 |
| | % within activity | 100.0 | 100.0 | 100.0 |
| | % of Total | 59.1 | 40.9 | 100.0 |

Table 28 Night time activities at Blewett Falls Lake.

| Survey Location | Count | Night time activity | | | | | | | | Total |
|-------------------------------|--|---------------------|--------------|------------------|--------------------|-------------|------------|---------------|------------|--------------|
| | | Boat fishing | Bank fishing | Wildlife viewing | Tail-water fishing | Camping | Hiking | Motor boating | Other | |
| Blewett Tailwater Access Area | Count | 27 | 55 | 4 | 10 | 12 | 0 | 1 | 2 | 111 |
| | % within location | 24.3 | 49.5 | 3.6 | 9.0 | 10.8 | 0.0 | 0.9 | 1.8 | 100.0 |
| Pee Dee Access Area | Count | 69 | 16 | 1 | 0 | 34 | 1 | 9 | 1 | 131 |
| | % within location | 52.7 | 12.2 | 0.8 | 0.0 | 26.0 | 0.8 | 6.9 | 0.8 | 100.0 |
| Grassy Islands Access Area | Count | 25 | 12 | 1 | 1 | 16 | 0 | 2 | 5 | 62 |
| | % within location | 40.3 | 19.4 | 1.6 | 1.6 | 25.8 | 0.0 | 3.2 | 8.1 | 100.0 |
| Blewett Falls Canoe Portage | Count | 13 | 20 | 1 | 0 | 13 | 0 | 1 | 5 | 53 |
| | % within location | 24.5 | 37.7 | 1.9 | 0.0 | 24.5 | 0.0 | 1.9 | 9.4 | 100.0 |
| U.S. Highway 74 Site | Count | 16 | 8 | 0 | 2 | 4 | 1 | 0 | 2 | 33 |
| | % within location | 48.5 | 24.2 | 0.0 | 6.1 | 12.1 | 3.0 | 0.0 | 6.1 | 100.0 |
| Informal Tailrace Access | Count | 20 | 36 | 1 | 2 | 9 | 0 | 1 | 1 | 70 |
| | % within location | 28.6 | 51.4 | 1.4 | 2.9 | 12.9 | 0.0 | 1.4 | 1.4 | 100.0 |
| Informal SR 1744 Site | Count | 17 | 28 | 2 | 2 | 34 | 2 | 4 | 4 | 93 |
| | % within location | 18.3 | 30.1 | 2.2 | 2.2 | 36.6 | 2.2 | 4.3 | 4.3 | 100.0 |
| Highway 109 | Count | 7 | 5 | 0 | 0 | 3 | 0 | 1 | 0 | 16 |
| | % within location | 43.8 | 31.3 | 0.0 | 0.0 | 18.8 | 0.0 | 6.3 | 0.0 | 100.0 |
| Total | Count | 194 | 180 | 10 | 17 | 125 | 4 | 19 | 20 | 569 |
| | % within total | 34.1 | 31.6 | 1.8 | 3.0 | 22.0 | 0.7 | 3.3 | 3.5 | 100.0 |
| | % of Night Time Activity Participants (N=360) | 53.9 | 50.0 | 2.8 | 4.7 | 34.7 | 1.0 | 5.3 | 5.6 | |

Lake Tillery**Table 29 Evaluation of conditions at Lake Tillery.**

| Have you experienced conditions that interfered with your experience? | Frequency | Percentage |
|---|--------------|--------------|
| Yes | 352 | 32.8 |
| No | 721 | 67.2 |
| Total | 1073 | 100.0 |
| Did not address | 136 | |
| Total | 1,209 | |

Table 30 Conditions interfering at Lake Tillery.

| Lake Tillery Survey Locations | | Experienced Conditions that Interfered w/ Recreation Experience? | | Total |
|--------------------------------|---------------------------------|--|--------------|---------------|
| | | Yes | No | |
| Norwood Access Area | Count | 39.0 | 70.0 | 109.0 |
| | % within Survey location | 35.8 | 64.2 | 100.0 |
| | % of Total | 3.6 | 6.5 | 10.2 |
| Stony Mountain Access | Count | 44.0 | 31.0 | 75.0 |
| | % within Survey location | 58.7 | 41.3 | 100.0 |
| | % of Total | 4.1 | 2.9 | 7.0 |
| Swift Island Access | Count | 88.0 | 161.0 | 249.0 |
| | % within Survey location | 35.3 | 64.7 | 100.0 |
| | % of Total | 8.2 | 15.1 | 23.3 |
| Lilly's Bridge Access | Count | 56.0 | 141.0 | 197.0 |
| | % within Survey location | 28.4 | 71.6 | 100.0 |
| | % of Total | 5.2 | 13.2 | 18.4 |
| Informal SR 1740 & SR 1745 | Count | 12.0 | 19.0 | 31.0 |
| | % within Survey location | 38.7 | 61.3 | 100.0 |
| | % of Total | 1.1 | 1.8 | 2.9 |
| Morrow Mountain State Park | Count | 62.0 | 216.0 | 278.0 |
| | % within Survey location | 22.3 | 77.7 | 100.0 |
| | % of Total | 5.8 | 20.2 | 26.0 |
| Tillery Canoe Portage | Count | 19.0 | 17.0 | 36.0 |
| | % within Survey location | 52.8 | 47.2 | 100.0 |
| | % of Total | 1.8 | 1.6 | 3.4 |
| Informal Tailwater Access Area | Count | 31.0 | 63.0 | 94.0 |
| | % within Survey location | 33.0 | 67.0 | 100.0 |
| | % of Total | 2.9 | 5.9 | 8.8 |
| Total | Count | 351.0 | 718.0 | 1069.0 |
| | % within Survey location | 32.8 | 67.2 | 100.0 |
| | % of Total | 32.8 | 67.2 | 100.0 |

Table 31 Level of concern for crowded conditions on Lake Tillery.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|------------|
| Low | 149 | 61.6 |
| Medium | 63 | 26.0 |
| High | 30 | 12.4 |
| Total | 242 | 100 |
| Did not address | 967 | |
| Total | 1,209 | |

Table 32 Concern for crowded conditions on Lake Tillery by survey location.

| Lake Tillery Survey Locations | | Level of Concern for Crowded Conditions | | | Total |
|--------------------------------|--------------------------|---|-------------|-------------|------------|
| | | Low | Medium | High | |
| Norwood Access Area | Count | 14 | 6 | 6 | 26 |
| | % within location | 53.8 | 23.1 | 23.1 | 100 |
| | % of Total | 5.8 | 2.5 | 2.5 | 10.8 |
| Stony Mountain Access | Count | 19 | 5 | 2 | 26 |
| | % within location | 73.1 | 19.2 | 7.7 | 100 |
| | % of Total | 7.9 | 2.1 | .8 | 10.8 |
| Swift Island Access | Count | 23 | 23 | 8 | 54 |
| | % within location | 42.6 | 42.6 | 14.8 | 100 |
| | % of Total | 9.5 | 9.5 | 3.3 | 22.4 |
| Lilly's Bridge Access | Count | 21 | 10 | 5 | 36 |
| | % within location | 58.3 | 27.8 | 13.9 | 100 |
| | % of Total | 8.7 | 4.1 | 2.1 | 14.9 |
| Informal SR 1740 & SR 1745 | Count | 12 | 0 | 0 | 12 |
| | % within location | 100.0 | .0 | .0 | 100 |
| | % of Total | 5.0 | .0 | .0 | 5.0 |
| Morrow Mountain State Park | Count | 35 | 10 | 6 | 51 |
| | % within Survey location | 68.6 | 19.6 | 11.8 | 100 |
| | % of Total | 14.5 | 4.1 | 2.5 | 21.2 |
| Tillery Canoe Portage | Count | 10 | 2 | 2 | 14 |
| | % within location | 71.4 | 14.3 | 14.3 | 100 |
| | % of Total | 4.1 | .8 | .8 | 5.8 |
| Informal Tailwater Access Area | Count | 15 | 6 | 1 | 22 |
| | % within location | 68.2 | 27.3 | 4.5 | 100 |
| | % of Total | 6.2 | 2.5 | .4 | 9.1 |
| Total | Count | 149 | 62 | 30 | 241 |
| | % of Total | 61.8 | 25.7 | 12.4 | 100 |

Table 33 Level of concern for limited access at Lake Tillery.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|-------------|
| Low | 164 | 13.6 |
| Medium | 43 | 3.6 |
| High | 16 | 1.3 |
| Total | 223 | 18.4 |
| Did not address | 986 | 81.6 |
| Total | 1,209 | 100 |

Table 34 Concern for limited access on Lake Tillery by location.

| Survey Location | | Level of Concern with Limited Access | | | |
|--------------------------------|-------------------|--------------------------------------|-------------|------------|--------------|
| | | Low | Medium | High | Total |
| Norwood Access Area | Count | 16 | 5 | 2 | 23 |
| | % within location | 69.6 | 21.7 | 8.7 | 100 |
| | % of Total | 7.2 | 2.3 | .9 | 10.4 |
| Stony Mountain Access | Count | 21 | 4 | 1 | 26 |
| | % within location | 80.8 | 15.4 | 3.8 | 100 |
| | % of Total | 9.5 | 1.8 | .5 | 11.7 |
| Swift Island Access | Count | 31 | 13 | 3 | 47 |
| | % within location | 66.0 | 27.7 | 6.4 | 100 |
| | % of Total | 14.0 | 5.9 | 1.4 | 21.2 |
| Lilly's Bridge Access | Count | 24 | 2 | 1 | 27 |
| | % within location | 88.9 | 7.4 | 3.7 | 100 |
| | % of Total | 10.8 | .9 | .5 | 12.2 |
| Informal SR 1740 & SR 1745 | Count | 8 | 5 | 1 | 14 |
| | % within location | 57.1 | 35.7 | 7.1 | 100 |
| | % of Total | 3.6 | 2.3 | .5 | 6.3 |
| Morrow Mountain State Park | Count | 40 | 2 | 2 | 44 |
| | % within location | 90.9 | 4.5 | 4.5 | 100 |
| | % of Total | 18.0 | .9 | .9 | 19.8 |
| Tillery Canoe Portage | Count | 9 | 6 | 1 | 16 |
| | % within location | 56.3 | 37.5 | 6.3 | 100 |
| | % of Total | 4.1 | 2.7 | .5 | 7.2 |
| Informal Tailwater Access Area | Count | 15 | 6 | 4 | 25 |
| | % within location | 60.0 | 24.0 | 16.0 | 100 |
| | % of Total | 6.8 | 2.7 | 1.8 | 11.3 |
| Total | Count | 164 | 43 | 15 | 222 |
| | % of Total | 73.9 | 19.4 | 6.8 | 100.0 |

Table 35 Level of concern for improper disposal of trash on Lake Tillery.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|--------------|
| Low | 117 | 40.3 |
| Medium | 72 | 24.8 |
| High | 101 | 34.8 |
| Total | 290 | 100.0 |
| Did not address | 919 | |
| Total | 1,209 | |

Table 36 Concern for improper disposal of litter or trash on Lake Tillery by location.

| Lake Tillery Survey Location | | Level of Concern with Improper Disposal of Litter or Trash | | | |
|--------------------------------|-------------------|--|-------------|-------------|--------------|
| | | Low | Medium | High | Total |
| Norwood Access Area | Count | 7 | 14 | 11 | 32 |
| | % within location | 21.9 | 43.8 | 34.4 | 100 |
| | % of Total | 2.4 | 4.8 | 3.8 | 11.1 |
| Stony Mountain Access | Count | 9 | 9 | 19 | 37 |
| | % within location | 24.3 | 24.3 | 51.4 | 100 |
| | % of Total | 3.1 | 3.1 | 6.6 | 12.8 |
| Swift Island Access | Count | 32 | 17 | 26 | 75 |
| | % within location | 42.7 | 22.7 | 34.7 | 100 |
| | % of Total | 11.1 | 5.9 | 9.0 | 26.0 |
| Lilly's Bridge Access | Count | 12 | 9 | 14 | 35 |
| | % within location | 34.3 | 25.7 | 40.0 | 100 |
| | % of Total | 4.2 | 3.1 | 4.8 | 12.1 |
| Informal SR 1740 & SR 1745 | Count | 5 | 3 | 6 | 14 |
| | % within location | 35.7 | 21.4 | 42.9 | 100 |
| | % of Total | 1.7 | 1.0 | 2.1 | 4.8 |
| Morrow Mountain State Park | Count | 36 | 8 | 7 | 51 |
| | % within location | 70.6 | 15.7 | 13.7 | 100 |
| | % of Total | 12.5 | 2.8 | 2.4 | 17.6 |
| Tillery Canoe Portage | Count | 4 | 4 | 9 | 17 |
| | % within location | 23.5 | 23.5 | 52.9 | 100 |
| | % of Total | 1.4 | 1.4 | 3.1 | 5.9 |
| Informal Tailwater Access Area | Count | 11 | 8 | 9 | 28 |
| | % within location | 39.3 | 28.6 | 32.1 | 100 |
| | % of Total | 3.8 | 2.8 | 3.1 | 9.7 |
| Total | Count | 116 | 72 | 101 | 289 |
| | % of Total | 40.1 | 24.9 | 34.9 | 100.0 |

Table 37 Level of concern for lake water levels at Lake Tillery.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|--------------|
| Low | 127 | 49.0 |
| Medium | 70 | 27.0 |
| High | 62 | 23.9 |
| Total | 259 | 100.0 |
| Did not address | 950 | |
| Total | 1,209 | |

Table 38 Concern for lake water levels at Lake Tillery by location.

| Lake Tillery Survey Location | | Level of Concern with Lake Water Levels | | | |
|--------------------------------|-------------------|---|-------------|-------------|--------------|
| | | Low | Medium | High | Total |
| Norwood Access Area | Count | 9 | 13 | 14 | 36 |
| | % within location | 25.0 | 36.1 | 38.9 | 100 |
| | % of Total | 3.5 | 5.0 | 5.4 | 14.0 |
| Stony Mountain Access | Count | 14 | 6 | 8 | 28 |
| | % within location | 50.0 | 21.4 | 28.6 | 100 |
| | % of Total | 5.4 | 2.3 | 3.1 | 10.9 |
| Swift Island Access | Count | 21 | 21 | 22 | 64 |
| | % within location | 32.8 | 32.8 | 34.4 | 100 |
| | % of Total | 8.1 | 8.1 | 8.5 | 24.8 |
| Lilly's Bridge Access | Count | 19 | 9 | 5 | 33 |
| | % within location | 57.6 | 27.3 | 15.2 | 100 |
| | % of Total | 7.4 | 3.5 | 1.9 | 12.8 |
| Informal SR 1740 & SR 1745 | Count | 11 | 2 | 2 | 15 |
| | % within location | 73.3 | 13.3 | 13.3 | 100 |
| | % of Total | 4.3 | .8 | .8 | 5.8 |
| Morrow Mountain State Park | Count | 33 | 11 | 2 | 46 |
| | % within location | 71.7 | 23.9 | 4.3 | 100 |
| | % of Total | 12.8 | 4.3 | .8 | 17.8 |
| Tillery Canoe Portage | Count | 9 | 2 | 1 | 12 |
| | % within location | 75.0 | 16.7 | 8.3 | 100 |
| | % of Total | 3.5 | .8 | .4 | 4.7 |
| Informal Tailwater Access Area | Count | 11 | 5 | 8 | 24 |
| | % within location | 45.8 | 20.8 | 33.3 | 100 |
| | % of Total | 4.3 | 1.9 | 3.1 | 9.3 |
| Total | Count | 127 | 69 | 62 | 258 |
| | % of Total | 49.2 | 26.7 | 24.0 | 100.0 |

Blewett Falls Lake**Table 39 Evaluation of conditions at Blewett Falls Lake.**

| Have you experienced conditions that interfered with your experience? | Frequency | Percentage |
|---|------------|--------------|
| Yes | 394 | 59.7 |
| No | 266 | 40.3 |
| Total | 660 | 100.0 |
| Did not address | 51 | |
| Total | 711 | |

Table 40 Conditions interfering at Blewett Falls Lake.

| Survey Location | | Have you experienced specific conditions at Blewett Falls Lake that interfered with your recreation experience? | | |
|-------------------------------|-------------------|---|-------------|--------------|
| | | Yes | No | Total |
| Blewett Tailwater Access Area | Count | 61 | 76 | 137 |
| | % within location | 44.5 | 55.5 | 100 |
| | % of Total | 9.3 | 11.6 | 20.9 |
| Pee Dee Access Area | Count | 97 | 64 | 161 |
| | % within location | 60.2 | 39.8 | 100 |
| | % of Total | 14.8 | 9.8 | 24.6 |
| Grassy Islands Access Area | Count | 51 | 11 | 62 |
| | % within location | 82.3 | 17.7 | 100 |
| | % of Total | 7.8 | 1.7 | 9.5 |
| Blewett Falls Canoe Portage | Count | 37 | 28 | 65 |
| | % within location | 56.9 | 43.1 | 100 |
| | % of Total | 5.7 | 4.3 | 9.9 |
| U.S. Highway 74 Site | Count | 21 | 21 | 42 |
| | % within location | 50.0 | 50.0 | 100 |
| | % of Total | 3.2 | 3.2 | 6.4 |
| Informal Tailrace Access | Count | 63 | 32 | 95 |
| | % within location | 66.3 | 33.7 | 100 |
| | % of Total | 9.6 | 4.9 | 14.5 |
| Informal SR 1744 Site | Count | 54 | 21 | 75 |
| | % within location | 72.0 | 28.0 | 100 |
| | % of Total | 8.3 | 3.2 | 11.5 |
| Highway 109 | Count | 5 | 12 | 17 |
| | % within location | 29.4 | 70.6 | 100 |
| | % of Total | .8 | 1.8 | 2.6 |
| Total | Count | 389 | 265 | 654 |
| | % of Total | 59.5 | 40.5 | 100.0 |

Table 41 Level of concern for crowded conditions on Blewett Falls Lake.

| Level of Concern | Frequency | Percentage |
|------------------------|------------|--------------|
| Low | 131 | 68.9 |
| Medium | 43 | 22.6 |
| High | 16 | 8.4 |
| Total | 190 | 100.0 |
| Did not address | 521 | |
| Total | 711 | |

Table 42 Concern for crowded conditions on Blewett Falls Lake by survey location.

| Survey Location | | Level of Concern with Crowded Conditions | | | |
|-------------------------------|-------------------|--|-------------|------------|--------------|
| | | Low | Medium | High | Total |
| Blewett Tailwater Access Area | Count | 23 | 6 | 3 | 32 |
| | % within location | 71.9 | 18.8 | 9.4 | 100 |
| | % of Total | 12.2 | 3.2 | 1.6 | 17.0 |
| Pee Dee Access Area | Count | 32 | 6 | 5 | 43 |
| | % within location | 74.4 | 14.0 | 11.6 | 100 |
| | % of Total | 17.0 | 3.2 | 2.7 | 22.9 |
| Grassy Islands Access Area | Count | 13 | 6 | 1 | 20 |
| | % within location | 65.0 | 30.0 | 5.0 | 100 |
| | % of Total | 6.9 | 3.2 | .5 | 10.6 |
| Blewett Falls Canoe Portage | Count | 13 | 4 | 0 | 17 |
| | % within location | 76.5 | 23.5 | .0 | 100 |
| | % of Total | 6.9 | 2.1 | .0 | 9.0 |
| U.S. Highway 74 Site | Count | 7 | 2 | 0 | 9 |
| | % within location | 77.8 | 22.2 | .0 | 100 |
| | % of Total | 3.7 | 1.1 | .0 | 4.8 |
| Informal Tailrace Access | Count | 21 | 9 | 2 | 32 |
| | % within location | 65.6 | 28.1 | 6.3 | 100 |
| | % of Total | 11.2 | 4.8 | 1.1 | 17.0 |
| Informal SR 1744 Site | Count | 19 | 9 | 4 | 32 |
| | % within location | 59.4 | 28.1 | 12.5 | 100 |
| | % of Total | 10.1 | 4.8 | 2.1 | 17.0 |
| Highway 109 | Count | 3 | 0 | 0 | 3 |
| | % within location | 100.0 | .0 | .0 | 100 |
| | % of Total | 1.6 | .0 | .0 | 1.6 |
| Total | Count | 131 | 42 | 15 | 188 |
| | % of Total | 69.7 | 22.3 | 8.0 | 100.0 |

Table 43 Level of concern for limited access at Blewett Falls Lake.

| Level of Concern | Frequency | Percentage |
|------------------------|------------|--------------|
| Low | 98 | 46.9 |
| Medium | 60 | 28.7 |
| High | 51 | 24.4 |
| Total | 209 | 100.0 |
| Did not address | 502 | |
| Total | 711 | |

Table 44 Concern for limited access on Blewett Falls Lake by location.

| Survey Location | | Level of Concern with Limited Access | | | |
|-------------------------------|-------------------|--------------------------------------|-------------|-------------|--------------|
| | | Low | Medium | High | Total |
| Blewett Tailwater Access Area | Count | 16 | 12 | 6 | 34 |
| | % within location | 47.1 | 35.3 | 17.6 | 100 |
| | % of Total | 7.8 | 5.9 | 2.9 | 16.6 |
| Pee Dee Access Area | Count | 28 | 9 | 5 | 42 |
| | % within location | 66.7 | 21.4 | 11.9 | 100 |
| | % of Total | 13.7 | 4.4 | 2.4 | 20.5 |
| Grassy Islands Access Area | Count | 9 | 3 | 6 | 18 |
| | % within location | 50.0 | 16.7 | 33.3 | 100 |
| | % of Total | 4.4 | 1.5 | 2.9 | 8.8 |
| Blewett Falls Canoe Portage | Count | 7 | 4 | 10 | 21 |
| | % within location | 33.3 | 19.0 | 47.6 | 100 |
| | % of Total | 3.4 | 2.0 | 4.9 | 10.2 |
| U.S. Highway 74 Site | Count | 6 | 3 | 3 | 12 |
| | % within location | 50.0 | 25.0 | 25.0 | 100 |
| | % of Total | 2.9 | 1.5 | 1.5 | 5.9 |
| Informal Tailrace Access | Count | 16 | 14 | 10 | 40 |
| | % within location | 40.0 | 35.0 | 25.0 | 100 |
| | % of Total | 7.8 | 6.8 | 4.9 | 19.5 |
| Informal SR 1744 Site | Count | 12 | 13 | 9 | 34 |
| | % within location | 35.3 | 38.2 | 26.5 | 100 |
| | % of Total | 5.9 | 6.3 | 4.4 | 16.6 |
| Highway 109 | Count | 3 | 1 | 0 | 4 |
| | % within location | 75.0 | 25.0 | .0 | 100 |
| | % of Total | 1.5 | .5 | .0 | 2.0 |
| Total | Count | 97 | 59 | 49 | 205 |
| | % of Total | 47.3 | 28.8 | 23.9 | 100.0 |

Table 45 Level of concern for improper disposal of trash on Blewett Falls Lake.

| Level of Concern | Frequency | Percentage |
|------------------------|------------|--------------|
| Low | 58 | 23.2 |
| Medium | 67 | 26.8 |
| High | 125 | 50.0 |
| Total | 250 | 100.0 |
| Did not address | 461 | |
| Total | 711 | |

Table 46 Concern for improper disposal of litter or trash on Blewett Falls Lake by location.

| Survey Location | | Level of Concern with Improper Disposal of Litter or Trash | | | |
|-------------------------------|-------------------|--|-------------|-------------|--------------|
| | | Low | Medium | High | Total |
| Blewett Tailwater Access Area | Count | 13 | 6 | 26 | 45 |
| | % within location | 28.9 | 13.3 | 57.8 | 100 |
| | % of Total | 5.3 | 2.4 | 10.5 | 18.2 |
| Pee Dee Access Area | Count | 9 | 14 | 31 | 54 |
| | % within location | 16.7 | 25.9 | 57.4 | 100 |
| | % of Total | 3.6 | 5.7 | 12.6 | 21.9 |
| Grassy Islands Access Area | Count | 7 | 8 | 4 | 19 |
| | % within location | 36.8 | 42.1 | 21.1 | 100 |
| | % of Total | 2.8 | 3.2 | 1.6 | 7.7 |
| Blewett Falls Canoe Portage | Count | 4 | 6 | 18 | 28 |
| | % within location | 14.3 | 21.4 | 64.3 | 100 |
| | % of Total | 1.6 | 2.4 | 7.3 | 11.3 |
| U.S. Highway 74 Site | Count | 1 | 6 | 5 | 12 |
| | % within location | 8.3 | 50.0 | 41.7 | 100 |
| | % of Total | .4 | 2.4 | 2.0 | 4.9 |
| Informal Tailrace Access | Count | 10 | 13 | 19 | 42 |
| | % within location | 23.8 | 31.0 | 45.2 | 100 |
| | % of Total | 4.0 | 5.3 | 7.7 | 17.0 |
| Informal SR 1744 Site | Count | 10 | 12 | 21 | 43 |
| | % within location | 23.3 | 27.9 | 48.8 | 100 |
| | % of Total | 4.0 | 4.9 | 8.5 | 17.4 |
| Highway 109 | Count | 3 | 1 | 0 | 4 |
| | % within location | 75.0 | 25.0 | .0 | 100 |
| | % of Total | 1.2 | .4 | .0 | 1.6 |
| Total | Count | 57 | 66 | 124 | 247 |
| | % of Total | 23.1 | 26.7 | 50.2 | 100.0 |

Table 47 Level of concern for lake water levels at Blewett Falls Lake.

| Level of Concern | Frequency | Percentage |
|------------------------|------------|--------------|
| Low | 80 | 24.2 |
| Medium | 88 | 26.7 |
| High | 162 | 49.1 |
| Total | 330 | 100.0 |
| Did not address | 381 | |
| Total | 711 | |

Table 48 Concern for lake water levels at Blewett Falls lake by location.

| Survey Location | | Level of Concern with Lake Water Levels | | | |
|-------------------------------|-------------------|---|-------------|-------------|--------------|
| | | Low | Medium | High | Total |
| Blewett Tailwater Access Area | Count | 13 | 14 | 25 | 52 |
| | % within location | 25.0 | 26.9 | 48.1 | 100 |
| | % of Total | 4.0 | 4.3 | 7.7 | 16.0 |
| Pee Dee Access Area | Count | 12 | 22 | 53 | 87 |
| | % within location | 13.8 | 25.3 | 60.9 | 100 |
| | % of Total | 3.7 | 6.7 | 16.3 | 26.7 |
| Grassy Islands Access Area | Count | 11 | 9 | 26 | 46 |
| | % within location | 23.9 | 19.6 | 56.5 | 100 |
| | % of Total | 3.4 | 2.8 | 8.0 | 14.1 |
| Blewett Falls Canoe Portage | Count | 13 | 4 | 8 | 25 |
| | % within location | 52.0 | 16.0 | 32.0 | 100 |
| | % of Total | 4.0 | 1.2 | 2.5 | 7.7 |
| U.S. Highway 74 Site | Count | 6 | 4 | 7 | 17 |
| | % within location | 35.3 | 23.5 | 41.2 | 100 |
| | % of Total | 1.8 | 1.2 | 2.1 | 5.2 |
| Informal Tailrace Access | Count | 11 | 16 | 23 | 50 |
| | % within location | 22.0 | 32.0 | 46.0 | 100 |
| | % of Total | 3.4 | 4.9 | 7.1 | 15.3 |
| Informal SR 1744 Site | Count | 13 | 17 | 14 | 44 |
| | % within location | 29.5 | 38.6 | 31.8 | 100 |
| | % of Total | 4.0 | 5.2 | 4.3 | 13.5 |
| Highway 109 | Count | 0 | 2 | 3 | 5 |
| | % within location | .0 | 40.0 | 60.0 | 100 |
| | % of Total | .0 | .6 | .9 | 1.5 |
| Total | Count | 79 | 88 | 159 | 326 |
| | % of Total | 24.2 | 27.0 | 48.8 | 100.0 |

Lake Tillery**Table 49 How crowded was Lake Tillery today by total respondents?**

| Level of Crowding at Lake Tillery | Frequency | Percentage |
|-----------------------------------|--------------|--------------|
| Not Crowded | 617 | 56.8 |
| Acceptable | 398 | 36.6 |
| Very Crowded | 71 | 6.5 |
| Total | 1,086 | 100.0 |
| Did not address | 123 | |
| Total | 1,209 | |

Table 50 Perceptions of crowding at Lake Tillery by location.

| Survey Location | Count | Level of Crowding at Lake Tillery | | | Total |
|--------------------------------|--------------------------|-----------------------------------|--------------|--------------|--------------|
| | | Not Crowded | Acceptable | Very Crowded | |
| Norwood Access Area | Count | 21.0 | 8.0 | 4.0 | 33.0 |
| | % within location | 63.6 | 24.2 | 12.1 | 100.0 |
| | % of Total | 6.5 | 2.5 | 1.2 | 10.2 |
| Stony Mountain Access | Count | 17.0 | 20.0 | 1.0 | 38.0 |
| | % within location | 44.7 | 52.6 | 2.6 | 100.0 |
| | % of Total | 5.3 | 6.2 | 0.3 | 11.8 |
| Swift Island Access | Count | 31.0 | 44.0 | 10.0 | 85.0 |
| | % within location | 36.5 | 51.8 | 11.8 | 100.0 |
| | % of Total | 9.6 | 13.7 | 3.1 | 26.4 |
| Lilly's Bridge Access | Count | 32.0 | 19.0 | 4.0 | 55.0 |
| | % within location | 58.2 | 34.5 | 7.3 | 100.0 |
| | % of Total | 9.9 | 5.9 | 1.2 | 17.1 |
| Informal SR 1740 & SR 1745 | Count | 7.0 | 1.0 | 0.0 | 8.0 |
| | % within location | 87.5 | 12.5 | 0.0 | 100.0 |
| | % of Total | 2.2 | 0.3 | 0.0 | 2.5 |
| Morrow Mountain State Park | Count | 40.0 | 18.0 | 1.0 | 59.0 |
| | % within location | 67.8 | 30.5 | 1.7 | 100.0 |
| | % of Total | 12.4 | 5.6 | 0.3 | 18.3 |
| Tillery Canoe Portage | Count | 10.0 | 3.0 | 2.0 | 15.0 |
| | % within location | 66.7 | 20.0 | 13.3 | 100.0 |
| | % of Total | 3.1 | 0.9 | 0.6 | 4.7 |
| Informal Tailwater Access Area | Count | 19.0 | 8.0 | 2.0 | 29.0 |
| | % within location | 65.5 | 27.6 | 6.9 | 100.0 |
| | % of Total | 5.9 | 2.5 | 0.6 | 9.0 |
| Total | Count | 177.0 | 121.0 | 24.0 | 322.0 |
| | % within location | 55.0 | 37.6 | 7.5 | 100.0 |
| | % of Total | 55.0 | 37.6 | 7.5 | 100.0 |

Table 51 How crowded were the access points at Lake Tillery?

| Level of Crowding at Lake Tillery | Frequency | Percentage |
|-----------------------------------|--------------|--------------|
| Not Crowded | 691 | 60.2 |
| Acceptable | 399 | 34.8 |
| Very Crowded | 58 | 5.1 |
| Total | 1,148 | 100.0 |
| Did not address | 61 | |
| Total | 1,209 | |

Table 52 Perceptions of crowding at access points by location at Lake Tillery.

| Survey Location | Count | Level of Crowding at Access Points | | | Total |
|--------------------------------|--------------------------|------------------------------------|--------------|--------------|--------------|
| | | Not Crowded | Acceptable | Very Crowded | |
| Norwood Access Area | Count | 25.0 | 9.0 | 5.0 | 39.0 |
| | % within location | 64.1 | 23.1 | 12.8 | 100.0 |
| | % of Total | 7.3 | 2.6 | 1.5 | 11.4 |
| Stony Mountain Access | Count | 22.0 | 20.0 | 1.0 | 43.0 |
| | % within location | 51.2 | 46.5 | 2.3 | 100.0 |
| | % of Total | 6.4 | 5.8 | 0.3 | 12.6 |
| Swift Island Access | Count | 36.0 | 39.0 | 11.0 | 86.0 |
| | % within location | 41.9 | 45.3 | 12.8 | 100.0 |
| | % of Total | 10.5 | 11.4 | 3.2 | 25.1 |
| Lilly's Bridge Access | Count | 37.0 | 16.0 | 1.0 | 54.0 |
| | % within location | 68.5 | 29.6 | 1.9 | 100.0 |
| | % of Total | 10.8 | 4.7 | 0.3 | 15.8 |
| Informal SR 1740 & SR 1745 | Count | 9.0 | 2.0 | 0.0 | 11.0 |
| | % within location | 81.8 | 18.2 | 0.0 | 100.0 |
| | % of Total | 2.6 | 0.6 | 0.0 | 3.2 |
| Morrow Mountain State Park | Count | 43.0 | 17.0 | 2.0 | 62.0 |
| | % within location | 69.4 | 27.4 | 3.2 | 100.0 |
| | % of Total | 12.6 | 5.0 | 0.6 | 18.1 |
| Tillery Canoe Portage | Count | 11.0 | 7.0 | 0.0 | 18.0 |
| | % within location | 61.1 | 38.9 | 0.0 | 100.0 |
| | % of Total | 3.2 | 2.0 | 0.0 | 5.3 |
| Informal Tailwater Access Area | Count | 18.0 | 9.0 | 2.0 | 29.0 |
| | % within location | 62.1 | 31.0 | 6.9 | 100.0 |
| | % of Total | 5.3 | 2.6 | 0.6 | 8.5 |
| Total | Count | 201.0 | 119.0 | 22.0 | 342.0 |
| | % within location | 58.8 | 34.8 | 6.4 | 100.0 |
| | % of Total | 58.8 | 34.8 | 6.4 | 100.0 |

Blewett Falls Lake**Table 53 How crowded was Blewett Falls Lake today by total respondents?**

| Level of Crowding at Blewett Falls Lake | Frequency | Percentage |
|---|------------|--------------|
| Not Crowded | 418 | 65.2 |
| Acceptable | 199 | 31.0 |
| Very Crowded | 24 | 3.7 |
| Total | 641 | 100.0 |
| Did not address | 70 | |
| Total | 711 | |

Table 54 Perceptions of crowding at Blewett Falls Lake by location.

| Survey Location | Count | Level of Crowding at Blewett Falls Lake | | | Total |
|-------------------------------|--------------------------|---|-------------|--------------|--------------|
| | | Not Crowded | Acceptable | Very Crowded | |
| Blewett Tailwater Access Area | Count | 74 | 44 | 4 | 122 |
| | % within location | 60.7 | 36.1 | 3.3 | 100.0 |
| | % of Total | 11.7 | 6.9 | .6 | 19.2 |
| Pee Dee Access Area | Count | 107 | 40 | 8 | 155 |
| | % within location | 69.0 | 25.8 | 5.2 | 100.0 |
| | % of Total | 16.9 | 6.3 | 1.3 | 24.4 |
| Grassy Islands Access Area | Count | 40 | 16 | 2 | 58 |
| | % within location | 69.0 | 27.6 | 3.4 | 100.0 |
| | % of Total | 6.3 | 2.5 | .3 | 9.1 |
| Blewett Falls Canoe Portage | Count | 43 | 18 | 4 | 65 |
| | % within location | 66.2 | 27.7 | 6.2 | 100.0 |
| | % of Total | 6.8 | 2.8 | .6 | 10.2 |
| U.S. Highway 74 Site | Count | 38 | 8 | 1 | 47 |
| | % within location | 80.9 | 17.0 | 2.1 | 100.0 |
| | % of Total | 6.0 | 1.3 | .2 | 7.4 |
| Informal Tailrace Access | Count | 63 | 36 | 0 | 99 |
| | % within location | 63.6 | 36.4 | .0 | 100.0 |
| | % of Total | 9.9 | 5.7 | .0 | 15.6 |
| Informal SR 1744 Site | Count | 38 | 33 | 4 | 75 |
| | % within location | 50.7 | 44.0 | 5.3 | 100.0 |
| | % of Total | 6.0 | 5.2 | .6 | 11.8 |
| Highway 109 | Count | 11 | 2 | 1 | 14 |
| | % within location | 78.6 | 14.3 | 7.1 | 100.0 |
| | % of Total | 1.7 | .3 | .2 | 2.2 |
| Total | Count | 414 | 197 | 24 | 635 |
| | % within location | 65.2 | 31.0 | 3.8 | 100.0 |
| | % of Total | 65.2 | 31.0 | 3.8 | 100.0 |

Table 55 How crowded were the access points at Blewett Falls Lake?

| | Frequency | Percent |
|------------------------|------------|--------------|
| Not crowded | 432 | 60.8 |
| Acceptable | 206 | 29.0 |
| Very crowded | 24 | 3.4 |
| Total | 662 | 93.1 |
| Did not address | 49 | 6.9 |
| Total | 711 | 100.0 |

Table 56 Perceptions of crowding at access points by location at Blewett Falls Lake.

| Survey Location | Count | Level of Crowding at Access Points | | | Total |
|-------------------------------|--------------------------|------------------------------------|-------------|--------------|--------------|
| | | Not Crowded | Acceptable | Very Crowded | |
| Blewett Tailwater Access Area | Count | 76 | 48 | 3 | 127 |
| | % within location | 59.8 | 37.8 | 2.4 | 100.0 |
| | % of Total | 11.6 | 7.3 | .5 | 19.4 |
| Pee Dee Access Area | Count | 120 | 42 | 10 | 172 |
| | % within location | 69.8 | 24.4 | 5.8 | 100.0 |
| | % of Total | 18.3 | 6.4 | 1.5 | 26.2 |
| Grassy Islands Access Area | Count | 41 | 18 | 1 | 60 |
| | % within location | 68.3 | 30.0 | 1.7 | 100.0 |
| | % of Total | 6.3 | 2.7 | .2 | 9.1 |
| Blewett Falls Canoe Portage | Count | 41 | 20 | 4 | 65 |
| | % within location | 63.1 | 30.8 | 6.2 | 100.0 |
| | % of Total | 6.3 | 3.0 | .6 | 9.9 |
| U.S. Highway 74 Site | Count | 38 | 10 | 0 | 48 |
| | % within location | 79.2 | 20.8 | .0 | 100.0 |
| | % of Total | 5.8 | 1.5 | .0 | 7.3 |
| Informal Tailrace Access | Count | 63 | 34 | 1 | 98 |
| | % within location | 64.3 | 34.7 | 1.0 | 100.0 |
| | % of Total | 9.6 | 5.2 | .2 | 14.9 |
| Informal SR 1744 Site | Count | 36 | 31 | 4 | 71 |
| | % within location | 50.7 | 43.7 | 5.6 | 100.0 |
| | % of Total | 5.5 | 4.7 | .6 | 10.8 |
| Highway 109 | Count | 12 | 2 | 1 | 15 |
| | % within location | 80.0 | 13.3 | 6.7 | 100.0 |
| | % of Total | 1.8 | .3 | .2 | 2.3 |
| Total | Count | 427 | 205 | 24 | 656 |
| | % within location | 65.1 | 31.3 | 3.7 | 100.0 |
| | % of Total | 65.1 | 31.3 | 3.7 | 100.0 |

Lake Tillery**Table 57 Condition of boat ramps/docks at Lake Tillery.**

| Survey Locations | | Condition of Boat Ramps/Docks | | | Total |
|--------------------------------|--------------------------|-------------------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 48.0 | 48.0 | 10.0 | 106.0 |
| | % within Survey location | 45.3 | 45.3 | 9.4 | 100.0 |
| | % of Total | 5.8 | 5.8 | 1.2 | 12.8 |
| Stony Mountain Access | Count | 22.0 | 27.0 | 0.0 | 49.0 |
| | % within Survey location | 44.9 | 55.1 | 0.0 | 100.0 |
| | % of Total | 2.7 | 3.3 | 0.0 | 5.9 |
| Swift Island Access | Count | 126.0 | 100.0 | 6.0 | 232.0 |
| | % within Survey location | 54.3 | 43.1 | 2.6 | 100.0 |
| | % of Total | 15.3 | 12.1 | 0.7 | 28.1 |
| Lilly's Bridge Access | Count | 126.0 | 44.0 | 1.0 | 171.0 |
| | % within Survey location | 73.7 | 25.7 | 0.6 | 100.0 |
| | % of Total | 15.3 | 5.3 | 0.1 | 20.7 |
| Informal SR 1740 & SR 1745 | Count | 3.0 | 7.0 | 0.0 | 10.0 |
| | % within Survey location | 30.0 | 70.0 | 0.0 | 100.0 |
| | % of Total | 0.4 | 0.8 | 0.0 | 1.2 |
| Morrow Mountain State Park | Count | 127.0 | 59.0 | 7.0 | 193.0 |
| | % within Survey location | 65.8 | 30.6 | 3.6 | 100.0 |
| | % of Total | 15.4 | 7.2 | 0.8 | 23.4 |
| Tillery Canoe Portage | Count | 4.0 | 9.0 | 1.0 | 14.0 |
| | % within Survey location | 28.6 | 64.3 | 7.1 | 100.0 |
| | % of Total | 0.5 | 1.1 | 0.1 | 1.7 |
| Informal Tailwater Access Area | Count | 12.0 | 28.0 | 10.0 | 50.0 |
| | % within Survey location | 24.0 | 56.0 | 20.0 | 100.0 |
| | % of Total | 1.5 | 3.4 | 1.2 | 6.1 |
| Total | Count | 468.0 | 322.0 | 35.0 | 825.0 |
| | % of Total | 56.7 | 39.0 | 4.2 | 100.0 |

Table 58 Condition of the parking lots at Lake Tillery.

| Survey Locations | | Condition of the Parking lot | | | Total |
|--------------------------------|--------------------------|------------------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 57.0 | 44.0 | 3.0 | 104.0 |
| | % within Survey location | 54.8 | 42.3 | 2.9 | 100.0 |
| | % of Total | 6.2 | 4.8 | 0.3 | 11.3 |
| Stony Mountain Access | Count | 30.0 | 35.0 | 1.0 | 66.0 |
| | % within Survey location | 45.5 | 53.0 | 1.5 | 100.0 |
| | % of Total | 3.3 | 3.8 | 0.1 | 7.2 |
| Swift Island Access | Count | 117.0 | 109.0 | 6.0 | 232.0 |
| | % within Survey location | 50.4 | 47.0 | 2.6 | 100.0 |
| | % of Total | 12.8 | 11.9 | 0.7 | 25.3 |
| Lilly's Bridge Access | Count | 122.0 | 51.0 | 0.0 | 173.0 |
| | % within Survey location | 70.5 | 29.5 | 0.0 | 100.0 |
| | % of Total | 13.3 | 5.6 | 0.0 | 18.9 |
| Informal SR 1740 & SR 1745 | Count | 3.0 | 12.0 | 2.0 | 17.0 |
| | % within Survey location | 17.6 | 70.6 | 11.8 | 100.0 |
| | % of Total | 0.3 | 1.3 | 0.2 | 1.9 |
| Morrow Mountain State Park | Count | 173.0 | 72.0 | 4.0 | 249.0 |
| | % within Survey location | 69.5 | 28.9 | 1.6 | 100.0 |
| | % of Total | 18.9 | 7.9 | 0.4 | 27.2 |
| Tillery Canoe Portage | Count | 4.0 | 12.0 | 0.0 | 16.0 |
| | % within Survey location | 25.0 | 75.0 | 0.0 | 100.0 |
| | % of Total | 0.4 | 1.3 | 0.0 | 1.7 |
| Informal Tailwater Access Area | Count | 19.0 | 37.0 | 4.0 | 60.0 |
| | % within Survey location | 31.7 | 61.7 | 6.7 | 100.0 |
| | % of Total | 2.1 | 4.0 | 0.4 | 6.5 |
| Total | Count | 525.0 | 372.0 | 20.0 | 917.0 |
| | % of Total | 57.3 | 40.6 | 2.2 | 100.0 |

Table 59 Condition of marinas at Lake Tillery.

| Survey Locations | | Condition of Marinas | | | Total |
|--------------------------------|--------------------------|----------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 13.0 | 25.0 | 4.0 | 42.0 |
| | % within Survey location | 31.0 | 59.5 | 9.5 | 100.0 |
| | % of Total | 4.6 | 8.9 | 1.4 | 14.9 |
| Stony Mountain Access | Count | 4.0 | 22.0 | 1.0 | 27.0 |
| | % within Survey location | 14.8 | 81.5 | 3.7 | 100.0 |
| | % of Total | 1.4 | 7.8 | 0.4 | 9.6 |
| Swift Island Access | Count | 29.0 | 41.0 | 7.0 | 77.0 |
| | % within Survey location | 37.7 | 53.2 | 9.1 | 100.0 |
| | % of Total | 10.3 | 14.6 | 2.5 | 27.4 |
| Lilly's Bridge Access | Count | 16.0 | 19.0 | 0.0 | 35.0 |
| | % within Survey location | 45.7 | 54.3 | 0.0 | 100.0 |
| | % of Total | 5.7 | 6.8 | 0.0 | 12.5 |
| Informal SR 1740 & SR 1745 | Count | 1.0 | 3.0 | 0.0 | 4.0 |
| | % within Survey location | 25.0 | 75.0 | 0.0 | 100.0 |
| | % of Total | 0.4 | 1.1 | 0.0 | 1.4 |
| Morrow Mountain State Park | Count | 35.0 | 25.0 | 3.0 | 63.0 |
| | % within Survey location | 55.6 | 39.7 | 4.8 | 100.0 |
| | % of Total | 12.5 | 8.9 | 1.1 | 22.4 |
| Tillery Canoe Portage | Count | 1.0 | 8.0 | 1.0 | 10.0 |
| | % within Survey location | 10.0 | 80.0 | 10.0 | 100.0 |
| | % of Total | 0.4 | 2.8 | 0.4 | 3.6 |
| Informal Tailwater Access Area | Count | 5.0 | 16.0 | 2.0 | 23.0 |
| | % within Survey location | 21.7 | 69.6 | 8.7 | 100.0 |
| | % of Total | 1.8 | 5.7 | 0.7 | 8.2 |
| Total | Count | 104.0 | 159.0 | 18.0 | 281.0 |
| | % of Total | 37.0 | 56.6 | 6.4 | 100.0 |

Table 60 Condition of campgrounds at Lake Tillery.

| Survey Locations | | Condition of Campgrounds | | | Total |
|--------------------------------|--------------------------|--------------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 16.0 | 19.0 | 1.0 | 36.0 |
| | % within Survey location | 44.4 | 52.8 | 2.8 | 100.0 |
| | % of Total | 4.4 | 5.2 | 0.3 | 9.9 |
| Stony Mountain Access | Count | 7.0 | 17.0 | 5.0 | 29.0 |
| | % within Survey location | 24.1 | 58.6 | 17.2 | 100.0 |
| | % of Total | 1.9 | 4.7 | 1.4 | 8.0 |
| Swift Island Access | Count | 26.0 | 29.0 | 7.0 | 62.0 |
| | % within Survey location | 41.9 | 46.8 | 11.3 | 100.0 |
| | % of Total | 7.2 | 8.0 | 1.9 | 17.1 |
| Lilly's Bridge Access | Count | 12.0 | 11.0 | 0.0 | 23.0 |
| | % within Survey location | 52.2 | 47.8 | 0.0 | 100.0 |
| | % of Total | 3.3 | 3.0 | 0.0 | 6.4 |
| Informal SR 1740 & SR 1745 | Count | 2.0 | 2.0 | 0.0 | 4.0 |
| | % within Survey location | 50.0 | 50.0 | 0.0 | 100.0 |
| | % of Total | 0.6 | 0.6 | 0.0 | 1.1 |
| Morrow Mountain State Park | Count | 132.0 | 38.0 | 3.0 | 173.0 |
| | % within Survey location | 76.3 | 22.0 | 1.7 | 100.0 |
| | % of Total | 36.5 | 10.5 | 0.8 | 47.8 |
| Tillery Canoe Portage | Count | 1.0 | 10.0 | 0.0 | 11.0 |
| | % within Survey location | 9.1 | 90.9 | 0.0 | 100.0 |
| | % of Total | 0.3 | 2.8 | 0.0 | 3.0 |
| Informal Tailwater Access Area | Count | 8.0 | 15.0 | 1.0 | 24.0 |
| | % within Survey location | 33.3 | 62.5 | 4.2 | 100.0 |
| | % of Total | 2.2 | 4.1 | 0.3 | 6.6 |
| Total | Count | 204.0 | 141.0 | 17.0 | 362.0 |
| | % of Total | 56.4 | 39.0 | 4.7 | 100.0 |

Table 61 Condition of toilets at Lake Tillery.

| Survey Locations | | Condition of Toilets | | | Total |
|--------------------------------|--------------------------|----------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 3.0 | 29.0 | 19.0 | 51.0 |
| | % within Survey location | 5.9 | 56.9 | 37.3 | 100.0 |
| | % of Total | 0.6 | 5.3 | 3.5 | 9.4 |
| Stony Mountain Access | Count | 1.0 | 25.0 | 18.0 | 44.0 |
| | % within Survey location | 2.3 | 56.8 | 40.9 | 100.0 |
| | % of Total | 0.2 | 4.6 | 3.3 | 8.1 |
| Swift Island Access | Count | 11.0 | 62.0 | 42.0 | 115.0 |
| | % within Survey location | 9.6 | 53.9 | 36.5 | 100.0 |
| | % of Total | 2.0 | 11.4 | 7.7 | 21.2 |
| Lilly's Bridge Access | Count | 2.0 | 20.0 | 22.0 | 44.0 |
| | % within Survey location | 4.5 | 45.5 | 50.0 | 100.0 |
| | % of Total | 0.4 | 3.7 | 4.1 | 8.1 |
| Informal SR 1740 & SR 1745 | Count | 0.0 | 8.0 | 3.0 | 11.0 |
| | % within Survey location | 0.0 | 72.7 | 27.3 | 100.0 |
| | % of Total | 0.0 | 1.5 | 0.6 | 2.0 |
| Morrow Mountain State Park | Count | 112.0 | 91.0 | 15.0 | 218.0 |
| | % within Survey location | 51.4 | 41.7 | 6.9 | 100.0 |
| | % of Total | 20.6 | 16.8 | 2.8 | 40.1 |
| Tillery Canoe Portage | Count | 0.0 | 15.0 | 3.0 | 18.0 |
| | % within Survey location | 0.0 | 83.3 | 16.7 | 100.0 |
| | % of Total | 0.0 | 2.8 | 0.6 | 3.3 |
| Informal Tailwater Access Area | Count | 5.0 | 26.0 | 11.0 | 42.0 |
| | % within Survey location | 11.9 | 61.9 | 26.2 | 100.0 |
| | % of Total | 0.9 | 4.8 | 2.0 | 7.7 |
| Total | Count | 134.0 | 276.0 | 133.0 | 543.0 |
| | % of Total | 24.7 | 50.8 | 24.5 | 100.0 |

Table 62 Condition of fishing piers at Lake Tillery.

| Survey Locations | | Condition of Fishing Piers | | | Total |
|--------------------------------|--------------------------|----------------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 5.0 | 17.0 | 8.0 | 30.0 |
| | % within Survey location | 16.7 | 56.7 | 26.7 | 100.0 |
| | % of Total | 1.2 | 4.0 | 1.9 | 7.1 |
| Stony Mountain Access | Count | 1.0 | 18.0 | 12.0 | 31.0 |
| | % within Survey location | 3.2 | 58.1 | 38.7 | 100.0 |
| | % of Total | 0.2 | 4.3 | 2.8 | 7.3 |
| Swift Island Access | Count | 17.0 | 31.0 | 4.0 | 52.0 |
| | % within Survey location | 32.7 | 59.6 | 7.7 | 100.0 |
| | % of Total | 4.0 | 7.3 | 0.9 | 12.3 |
| Lilly's Bridge Access | Count | 25.0 | 28.0 | 6.0 | 59.0 |
| | % within Survey location | 42.4 | 47.5 | 10.2 | 100.0 |
| | % of Total | 5.9 | 6.6 | 1.4 | 13.9 |
| Informal SR 1740 & SR 1745 | Count | 0.0 | 8.0 | 6.0 | 14.0 |
| | % within Survey location | 0.0 | 57.1 | 42.9 | 100.0 |
| | % of Total | 0.0 | 1.9 | 1.4 | 3.3 |
| Morrow Mountain State Park | Count | 121.0 | 58.0 | 8.0 | 187.0 |
| | % within Survey location | 64.7 | 31.0 | 4.3 | 100.0 |
| | % of Total | 28.6 | 13.7 | 1.9 | 44.2 |
| Tillery Canoe Portage | Count | 1.0 | 14.0 | 3.0 | 18.0 |
| | % within Survey location | 5.6 | 77.8 | 16.7 | 100.0 |
| | % of Total | 0.2 | 3.3 | 0.7 | 4.3 |
| Informal Tailwater Access Area | Count | 4.0 | 25.0 | 3.0 | 32.0 |
| | % within Survey location | 12.5 | 78.1 | 9.4 | 100.0 |
| | % of Total | 0.9 | 5.9 | 0.7 | 7.6 |
| Total | Count | 174.0 | 199.0 | 50.0 | 423.0 |
| | % of Total | 41.1 | 47.0 | 11.8 | 100.0 |

Table 63 Condition of signage at Lake Tillery.

| Survey Location | | Condition of Signage | | | Total |
|--------------------------------|--------------------------|----------------------|--------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Norwood Access Area | Count | 19.0 | 55.0 | 3.0 | 77.0 |
| | % within Survey location | 24.7 | 71.4 | 3.9 | 100.0 |
| | % of Total | 2.5 | 7.3 | 0.4 | 10.2 |
| Stony Mountain Access | Count | 4.0 | 42.0 | 4.0 | 50.0 |
| | % within Survey location | 8.0 | 84.0 | 8.0 | 100.0 |
| | % of Total | 0.5 | 5.5 | 0.5 | 6.6 |
| Swift Island Access | Count | 41.0 | 96.0 | 15.0 | 152.0 |
| | % within Survey location | 27.0 | 63.2 | 9.9 | 100.0 |
| | % of Total | 5.4 | 12.7 | 2.0 | 20.1 |
| Lilly's Bridge Access | Count | 72.0 | 62.0 | 10.0 | 144.0 |
| | % within Survey location | 50.0 | 43.1 | 6.9 | 100.0 |
| | % of Total | 9.5 | 8.2 | 1.3 | 19.0 |
| Informal SR 1740 & SR 1745 | Count | 0.0 | 12.0 | 3.0 | 15.0 |
| | % within Survey location | 0.0 | 80.0 | 20.0 | 100.0 |
| | % of Total | 0.0 | 1.6 | 0.4 | 2.0 |
| Morrow Mountain State Park | Count | 161.0 | 87.0 | 5.0 | 253.0 |
| | % within Survey location | 63.6 | 34.4 | 2.0 | 100.0 |
| | % of Total | 21.2 | 11.5 | 0.7 | 33.4 |
| Tillery Canoe Portage | Count | 2.0 | 16.0 | 4.0 | 22.0 |
| | % within Survey location | 9.1 | 72.7 | 18.2 | 100.0 |
| | % of Total | 0.3 | 2.1 | 0.5 | 2.9 |
| Informal Tailwater Access Area | Count | 5.0 | 37.0 | 3.0 | 45.0 |
| | % within Survey location | 11.1 | 82.2 | 6.7 | 100.0 |
| | % of Total | 0.7 | 4.9 | 0.4 | 5.9 |
| Total | Count | 304.0 | 407.0 | 47.0 | 758.0 |
| | % of Total | 40.1 | 53.7 | 6.2 | 100.0 |

Table 64 Summary of types of additional comments - Lake Tillery.

| Comment Topics | Frequency | Percentage |
|----------------------------------|------------------|-------------------|
| Toilets | 102 | 16.8 |
| Trash | 72 | 11.9 |
| Toilets and trash cans | 8 | 1.3 |
| Boat ramp | 26 | 4.3 |
| Campground | 22 | 3.6 |
| Parking | 22 | 3.6 |
| Access | 45 | 7.4 |
| Fishing/fish stock | 25 | 4.1 |
| Lighting | 21 | 3.5 |
| Jet skis | 47 | 7.7 |
| Picnic/BBQ/recreation facilities | 47 | 7.7 |
| Signage | 22 | 3.6 |
| Law enforcement/security | 10 | 1.6 |
| Lake water levels/fluctuations | 21 | 3.5 |
| Safety | 8 | 1.3 |
| Debris/maintenance | 15 | 2.5 |
| Marinas | 9 | 1.5 |
| Recreation equipment rental | 5 | .8 |
| Crowds | 2 | .3 |
| Pier/dock | 38 | 6.3 |
| Restaurant/bait shop/store | 39 | 6.4 |
| Hunting | 1 | .2 |
| Total | 607 | 100.0 |
| General Comments | 148 | |
| Did not address | 454 | |

Blewett Falls Lake**Table 65 Condition of boat ramps/docks at Blewett Falls Lake.**

| Survey Locations | | Condition of Boat Ramps/Docks | | | Total |
|-------------------------------|--------------------------|-------------------------------|-------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Blewett Tailwater Access Area | Count | 28 | 41 | 6 | 75 |
| | % within Survey location | 37.3 | 54.7 | 8.0 | 100.0 |
| | % of Total | 5.6 | 8.1 | 1.2 | 14.9 |
| Pee Dee Access Area | Count | 79 | 71 | 17 | 167 |
| | % within Survey location | 47.3 | 42.5 | 10.2 | 100.0 |
| | % of Total | 15.7 | 14.1 | 3.4 | 33.1 |
| Grassy Islands Access Area | Count | 27 | 29 | 3 | 59 |
| | % within Survey location | 45.8 | 49.2 | 5.1 | 100.0 |
| | % of Total | 5.4 | 5.8 | .6 | 11.7 |
| Blewett Falls Canoe Portage | Count | 10 | 19 | 6 | 35 |
| | % within Survey location | 28.6 | 54.3 | 17.1 | 100.0 |
| | % of Total | 2.0 | 3.8 | 1.2 | 6.9 |
| U.S. Highway 74 Site | Count | 15 | 22 | 2 | 39 |
| | % within Survey location | 38.5 | 56.4 | 5.1 | 100.0 |
| | % of Total | 3.0 | 4.4 | .4 | 7.7 |
| Informal Tailrace Access | Count | 12 | 35 | 17 | 64 |
| | % within Survey location | 18.8 | 54.7 | 26.6 | 100.0 |
| | % of Total | 2.4 | 6.9 | 3.4 | 12.7 |
| Informal SR 1744 Site | Count | 14 | 33 | 5 | 52 |
| | % within Survey location | 26.9 | 63.5 | 9.6 | 100.0 |
| | % of Total | 2.8 | 6.5 | 1.0 | 10.3 |
| Highway 109 | Count | 4 | 9 | 0 | 13 |
| | % within Survey location | 30.8 | 69.2 | .0 | 100.0 |
| | % of Total | .8 | 1.8 | .0 | 2.6 |
| Total | Count | 189 | 259 | 56 | 504 |
| | % of Total | 37.5 | 51.4 | 11.1 | 100.0 |

Table 66 Condition of parking lots at Blewett Falls Lake.

| Survey Locations | | Condition of the Parking Lot | | | Total |
|-------------------------------|--------------------------|------------------------------|-------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Blewett Tailwater Access Area | Count | 56 | 52 | 4 | 112 |
| | % within Survey location | 50.0 | 46.4 | 3.6 | 100.0 |
| | % of Total | 9.5 | 8.8 | .7 | 19.0 |
| Pee Dee Access Area | Count | 87 | 71 | 12 | 170 |
| | % within Survey location | 51.2 | 41.8 | 7.1 | 100.0 |
| | % of Total | 14.7 | 12.0 | 2.0 | 28.8 |
| Grassy Islands Access Area | Count | 30 | 27 | 0 | 57 |
| | % within Survey location | 52.6 | 47.4 | .0 | 100.0 |
| | % of Total | 5.1 | 4.6 | .0 | 9.6 |
| Blewett Falls Canoe Portage | Count | 17 | 27 | 12 | 56 |
| | % within Survey location | 30.4 | 48.2 | 21.4 | 100.0 |
| | % of Total | 2.9 | 4.6 | 2.0 | 9.5 |
| U.S. Highway 74 Site | Count | 20 | 22 | 1 | 43 |
| | % within Survey location | 46.5 | 51.2 | 2.3 | 100.0 |
| | % of Total | 3.4 | 3.7 | .2 | 7.3 |
| Informal Tailrace Access | Count | 26 | 44 | 12 | 82 |
| | % within Survey location | 31.7 | 53.7 | 14.6 | 100.0 |
| | % of Total | 4.4 | 7.4 | 2.0 | 13.9 |
| Informal SR 1744 Site | Count | 11 | 38 | 8 | 57 |
| | % within Survey location | 19.3 | 66.7 | 14.0 | 100.0 |
| | % of Total | 1.9 | 6.4 | 1.4 | 9.6 |
| Highway 109 | Count | 4 | 10 | 0 | 14 |
| | % within Survey location | 28.6 | 71.4 | .0 | 100.0 |
| | % of Total | .7 | 1.7 | .0 | 2.4 |
| Total | Count | 251 | 291 | 49 | 591 |
| | % of Total | 42.5 | 49.2 | 8.3 | 100.0 |

Table 67 Condition of campgrounds at Blewett Falls Lake.

| Survey Locations | | Condition of Campgrounds | | | Total |
|-------------------------------|--------------------------|--------------------------|-------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Blewett Tailwater Access Area | Count | 10 | 18 | 5 | 33 |
| | % within Survey location | 30.3 | 54.5 | 15.2 | 100.0 |
| | % of Total | 6.1 | 11.0 | 3.0 | 20.1 |
| Pee Dee Access Area | Count | 4 | 11 | 6 | 21 |
| | % within Survey location | 19.0 | 52.4 | 28.6 | 100.0 |
| | % of Total | 2.4 | 6.7 | 3.7 | 12.8 |
| Grassy Islands Access Area | Count | 3 | 6 | 9 | 18 |
| | % within Survey location | 16.7 | 33.3 | 50.0 | 100.0 |
| | % of Total | 1.8 | 3.7 | 5.5 | 11.0 |
| Blewett Falls Canoe Portage | Count | 4 | 7 | 12 | 23 |
| | % within Survey location | 17.4 | 30.4 | 52.2 | 100.0 |
| | % of Total | 2.4 | 4.3 | 7.3 | 14.0 |
| U.S. Highway 74 Site | Count | 3 | 4 | 3 | 10 |
| | % within Survey location | 30.0 | 40.0 | 30.0 | 100.0 |
| | % of Total | 1.8 | 2.4 | 1.8 | 6.1 |
| Informal Tailrace Access | Count | 5 | 11 | 8 | 24 |
| | % within Survey location | 20.8 | 45.8 | 33.3 | 100.0 |
| | % of Total | 3.0 | 6.7 | 4.9 | 14.6 |
| Informal SR 1744 Site | Count | 8 | 8 | 15 | 31 |
| | % within Survey location | 25.8 | 25.8 | 48.4 | 100.0 |
| | % of Total | 4.9 | 4.9 | 9.1 | 18.9 |
| Highway 109 | Count | 2 | 1 | 1 | 4 |
| | % within Survey location | 50.0 | 25.0 | 25.0 | 100.0 |
| | % of Total | 1.2 | .6 | .6 | 2.4 |
| Total | Count | 39 | 66 | 59 | 164 |
| | % of Total | 23.8 | 40.2 | 36.0 | 100.0 |

Table 68 Condition of toilets at Blewett Falls Lake.

| Survey Locations | | Condition of Toilets | | | Total |
|-------------------------------|--------------------------|----------------------|-------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Blewett Tailwater Access Area | Count | 4 | 32 | 44 | 80 |
| | % within Survey location | 5.0 | 40.0 | 55.0 | 100.0 |
| | % of Total | 1.3 | 10.4 | 14.3 | 26.0 |
| Pee Dee Access Area | Count | 3 | 23 | 29 | 55 |
| | % within Survey location | 5.5 | 41.8 | 52.7 | 100.0 |
| | % of Total | 1.0 | 7.5 | 9.4 | 17.9 |
| Grassy Islands Access Area | Count | 1 | 7 | 9 | 17 |
| | % within Survey location | 5.9 | 41.2 | 52.9 | 100.0 |
| | % of Total | .3 | 2.3 | 2.9 | 5.5 |
| Blewett Falls Canoe Portage | Count | 3 | 14 | 17 | 34 |
| | % within Survey location | 8.8 | 41.2 | 50.0 | 100.0 |
| | % of Total | 1.0 | 4.5 | 5.5 | 11.0 |
| U.S. Highway 74 Site | Count | 1 | 10 | 4 | 15 |
| | % within Survey location | 6.7 | 66.7 | 26.7 | 100.0 |
| | % of Total | .3 | 3.2 | 1.3 | 4.9 |
| Informal Tailrace Access | Count | 1 | 33 | 26 | 60 |
| | % within Survey location | 1.7 | 55.0 | 43.3 | 100.0 |
| | % of Total | .3 | 10.7 | 8.4 | 19.5 |
| Informal SR 1744 Site | Count | 1 | 12 | 28 | 41 |
| | % within Survey location | 2.4 | 29.3 | 68.3 | 100.0 |
| | % of Total | .3 | 3.9 | 9.1 | 13.3 |
| Highway 109 | Count | 1 | 4 | 1 | 6 |
| | % within Survey location | 16.7 | 66.7 | 16.7 | 100.0 |
| | % of Total | .3 | 1.3 | .3 | 1.9 |
| Total | Count | 15 | 135 | 158 | 308 |
| | % of Total | 4.9 | 43.8 | 51.3 | 100.0 |

Table 69 Condition of fishing piers at Blewett Falls Lake.

| Survey Locations | | Condition of fishing piers | | | Total |
|-------------------------------|--------------------------|----------------------------|-------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Blewett Tailwater Access Area | Count | 38 | 56 | 6 | 100 |
| | % within Survey location | 38.0 | 56.0 | 6.0 | 100.0 |
| | % of Total | 13.3 | 19.6 | 2.1 | 35.0 |
| Pee Dee Access Area | Count | 5 | 13 | 10 | 28 |
| | % within Survey location | 17.9 | 46.4 | 35.7 | 100.0 |
| | % of Total | 1.7 | 4.5 | 3.5 | 9.8 |
| Grassy Islands Access Area | Count | 2 | 4 | 5 | 11 |
| | % within Survey location | 18.2 | 36.4 | 45.5 | 100.0 |
| | % of Total | .7 | 1.4 | 1.7 | 3.8 |
| Blewett Falls Canoe Portage | Count | 3 | 13 | 13 | 29 |
| | % within Survey location | 10.3 | 44.8 | 44.8 | 100.0 |
| | % of Total | 1.0 | 4.5 | 4.5 | 10.1 |
| U.S. Highway 74 Site | Count | 5 | 9 | 2 | 16 |
| | % within Survey location | 31.3 | 56.3 | 12.5 | 100.0 |
| | % of Total | 1.7 | 3.1 | .7 | 5.6 |
| Informal Tailrace Access | Count | 19 | 35 | 11 | 65 |
| | % within Survey location | 29.2 | 53.8 | 16.9 | 100.0 |
| | % of Total | 6.6 | 12.2 | 3.8 | 22.7 |
| Informal SR 1744 Site | Count | 4 | 14 | 11 | 29 |
| | % within Survey location | 13.8 | 48.3 | 37.9 | 100.0 |
| | % of Total | 1.4 | 4.9 | 3.8 | 10.1 |
| Highway 109 | Count | 2 | 6 | 0 | 8 |
| | % within Survey location | 25.0 | 75.0 | .0 | 100.0 |
| | % of Total | .7 | 2.1 | .0 | 2.8 |
| Total | Count | 78 | 150 | 58 | 286 |
| | % of Total | 27.3 | 52.4 | 20.3 | 100.0 |

Table 70 Condition of signage at Blewett Falls Lake.

| Survey Locations | | Condition of Signage | | | Total |
|-------------------------------|--------------------------|----------------------|-------------|--------------|--------------|
| | | Very Good | Acceptable | Not Adequate | |
| Blewett Tailwater Access Area | Count | 14 | 66 | 5 | 85 |
| | % within Survey location | 16.5 | 77.6 | 5.9 | 100.0 |
| | % of Total | 3.8 | 17.7 | 1.3 | 22.8 |
| Pee Dee Access Area | Count | 17 | 47 | 6 | 70 |
| | % within Survey location | 24.3 | 67.1 | 8.6 | 100.0 |
| | % of Total | 4.6 | 12.6 | 1.6 | 18.8 |
| Grassy Islands Access Area | Count | 8 | 22 | 3 | 33 |
| | % within Survey location | 24.2 | 66.7 | 9.1 | 100.0 |
| | % of Total | 2.1 | 5.9 | .8 | 8.8 |
| Blewett Falls Canoe Portage | Count | 5 | 33 | 6 | 44 |
| | % within Survey location | 11.4 | 75.0 | 13.6 | 100.0 |
| | % of Total | 1.3 | 8.8 | 1.6 | 11.8 |
| U.S. Highway 74 Site | Count | 11 | 17 | 0 | 28 |
| | % within Survey location | 39.3 | 60.7 | .0 | 100.0 |
| | % of Total | 2.9 | 4.6 | .0 | 7.5 |
| Informal Tailrace Access | Count | 11 | 39 | 10 | 60 |
| | % within Survey location | 18.3 | 65.0 | 16.7 | 100.0 |
| | % of Total | 2.9 | 10.5 | 2.7 | 16.1 |
| Informal SR 1744 Site | Count | 5 | 30 | 7 | 42 |
| | % within Survey location | 11.9 | 71.4 | 16.7 | 100.0 |
| | % of Total | 1.3 | 8.0 | 1.9 | 11.3 |
| Highway 109 | Count | 3 | 8 | 0 | 11 |
| | % within Survey location | 27.3 | 72.7 | .0 | 100.0 |
| | % of Total | .8 | 2.1 | .0 | 2.9 |
| Total | Count | 74 | 262 | 37 | 373 |
| | % of Total | 19.8 | 70.2 | 9.9 | 100.0 |

Table 71 Summary of types of additional comments - Blewett Falls Lake.

| Comments/Concerns | Frequency | Percentage |
|----------------------------------|------------|--------------|
| Toilets | 127 | 24.2 |
| Trash | 45 | 8.6 |
| Toilets and trash cans | 3 | .6 |
| Boat ramp | 51 | 9.7 |
| Campground | 49 | 9.4 |
| Parking | 21 | 4.0 |
| Access | 37 | 7.1 |
| Fishing/fish stock | 27 | 5.2 |
| Lighting | 20 | 3.8 |
| Jet skis | 2 | .4 |
| Picnic/BBQ/recreation facilities | 20 | 3.8 |
| Signage | 7 | 1.3 |
| Law enforcement/security | 8 | 1.5 |
| Lake water levels/fluctuations | 68 | 13.0 |
| Safety | 4 | .8 |
| Debris/maintenance | 19 | 3.6 |
| Marinas | 4 | .8 |
| Recreation equipment rental | 2 | .4 |
| Crowds | 1 | .2 |
| Pier/dock | 4 | .8 |
| Restaurant/bait shop/store | 1 | .2 |
| Hunting | 4 | .8 |
| Total | 524 | 100.0 |
| General Comments | 24 | |
| Did not address | 163 | |

Table 72 Estimated expenses by month at Lake Tillery.

| Month | | Lodging | Gas | Food | Equipment Rental | Bait and Tackle | Other Services |
|--------------|----------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|
| January | Mean | \$0.00 | \$8.82 | \$1.36 | \$0.00 | \$1.73 | \$1.36 |
| | Maximum | \$0.00 | \$15.00 | \$15.00 | \$0.00 | \$6.00 | \$15.00 |
| February | Mean | \$0.00 | \$10.64 | \$2.00 | \$0.00 | \$1.18 | \$0.00 |
| | Maximum | \$0.00 | \$25.00 | \$20.00 | \$0.00 | \$5.00 | \$0.00 |
| March | Mean | \$0.60 | \$11.52 | \$4.76 | \$0.00 | \$5.03 | \$0.60 |
| | Maximum | \$15.00 | \$30.00 | \$35.00 | \$0.00 | \$35.00 | \$15.00 |
| April | Mean | \$5.64 | \$16.27 | \$11.93 | \$0.62 | \$7.99 | \$1.83 |
| | Maximum | \$600.00 | \$100.00 | \$300.00 | \$60.00 | \$100.00 | \$150.00 |
| May | Mean | \$2.84 | \$22.82 | \$15.44 | \$0.20 | \$4.31 | \$2.41 |
| | Maximum | \$100.00 | \$150.00 | \$300.00 | \$15.00 | \$70.00 | \$150.00 |
| June | Mean | \$0.97 | \$17.83 | \$16.64 | \$0.00 | \$4.12 | \$2.23 |
| | Maximum | \$28.00 | \$200.00 | \$300.00 | \$0.00 | \$38.00 | \$53.00 |
| July | Mean | \$4.91 | \$22.19 | \$24.00 | \$0.61 | \$4.20 | \$5.77 |
| | Maximum | \$150.00 | \$150.00 | \$400.00 | \$75.00 | \$100.00 | \$1,000.00 |
| August | Mean | \$1.93 | \$15.37 | \$11.30 | \$0.14 | \$4.21 | \$0.89 |
| | Maximum | \$75.00 | \$100.00 | \$100.00 | \$10.00 | \$50.00 | \$25.00 |
| September | Mean | \$2.73 | \$22.39 | \$16.61 | \$0.07 | \$4.97 | \$2.72 |
| | Maximum | \$160.00 | \$150.00 | \$150.00 | \$10.00 | \$40.00 | \$125.00 |
| October | Mean | \$1.90 | \$19.04 | \$5.72 | \$0.29 | \$3.62 | \$0.19 |
| | Maximum | \$140.00 | \$100.00 | \$50.00 | \$30.00 | \$25.00 | \$15.00 |
| November | Mean | \$0.47 | \$13.78 | \$2.78 | \$0.00 | \$3.22 | \$0.00 |
| | Maximum | \$15.00 | \$100.00 | \$20.00 | \$0.00 | \$15.00 | \$0.00 |
| December | Mean | \$0.00 | \$12.30 | \$1.40 | \$0.00 | \$2.20 | \$0.00 |
| | Maximum | \$0.00 | \$35.00 | \$8.00 | \$0.00 | \$11.00 | \$0.00 |
| Total | Mean | \$3.29 | \$19.72 | \$15.02 | \$0.32 | \$4.75 | \$2.68 |
| | Maximum | \$600.00 | \$200.00 | \$400.00 | \$75.00 | \$100.00 | \$1,000.00 |

Table 73 Estimated expenses by location at Lake Tillery.

| Survey location | | Lodging | Gas | Food | Equipment Rental | Bait and Tackle | Other services |
|--------------------------------|----------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|
| Norwood Access Area | Mean | \$1.27 | \$20.59 | \$7.19 | \$0.00 | \$4.07 | \$2.18 |
| | Maximum | \$140.00 | \$100.00 | \$200.00 | \$0.00 | \$50.00 | \$125.00 |
| Stony Mountain Access | Mean | \$0.00 | \$17.07 | \$11.67 | \$0.00 | \$6.80 | \$4.23 |
| | Maximum | \$0.00 | \$200.00 | \$300.00 | \$0.00 | \$100.00 | \$150.00 |
| Swift Island Access | Mean | \$1.47 | \$27.79 | \$11.17 | \$0.00 | \$3.32 | \$2.57 |
| | Maximum | \$160.00 | \$150.00 | \$150.00 | \$0.00 | \$60.00 | \$150.00 |
| Lilly's Bridge Access | Mean | \$0.14 | \$25.90 | \$16.02 | \$0.00 | \$5.18 | \$0.52 |
| | Maximum | \$20.00 | \$150.00 | \$300.00 | \$0.00 | \$100.00 | \$40.00 |
| Informal SR 1740 & SR 1745 | Mean | \$0.00 | \$5.18 | \$2.50 | \$0.00 | \$5.95 | \$0.64 |
| | Maximum | \$0.00 | \$20.00 | \$20.00 | \$0.00 | \$40.00 | \$15.00 |
| Morrow Mountain State Park | Mean | \$10.51 | \$16.03 | \$26.71 | \$1.16 | \$4.50 | \$5.11 |
| | Maximum | \$600.00 | \$120.00 | \$400.00 | \$75.00 | \$75.00 | \$1,000.00 |
| Tillery Canoe Portage | Mean | \$0.54 | \$6.72 | \$14.01 | \$0.54 | \$7.70 | \$1.92 |
| | Maximum | \$20.00 | \$25.00 | \$100.00 | \$20.00 | \$45.00 | \$53.00 |
| Woodrun | Mean | \$0.00 | \$5.00 | \$5.00 | \$0.00 | \$2.50 | \$0.00 |
| | Maximum | \$0.00 | \$5.00 | \$5.00 | \$0.00 | \$2.50 | \$0.00 |
| Informal Tailwater Access Area | Mean | \$0.00 | \$7.12 | \$4.34 | \$0.00 | \$5.76 | \$0.59 |
| | Maximum | \$0.00 | \$60.00 | \$50.00 | \$0.00 | \$40.00 | \$30.00 |
| Total | Mean | \$3.27 | \$19.65 | \$15.01 | \$0.32 | \$4.73 | \$2.69 |
| | Maximum | \$600.00 | \$200.00 | \$400.00 | \$75.00 | \$100.00 | \$1,000.00 |

Table 74 Estimated expenses by month on Blewett Falls Lake.

| Month | | Lodging | Gas | Food | Equipment Rental | Bait and Tackle | Other Services |
|--------------|----------------|----------------|-----------------|-----------------|------------------|-------------------|-------------------|
| January | Mean | \$0.00 | \$8.00 | \$2.50 | \$0.00 | \$0.00 | \$10.00 |
| | Maximum | \$0.00 | \$10.00 | \$5.00 | \$0.00 | \$0.00 | \$20.00 |
| February | Mean | \$0.00 | \$6.33 | \$0.00 | \$0.00 | \$3.67 | \$0.00 |
| | Maximum | \$0.00 | \$12.00 | \$0.00 | \$0.00 | \$8.00 | \$0.00 |
| March | Mean | \$0.00 | \$6.22 | \$2.14 | \$0.00 | \$3.72 | \$0.00 |
| | Maximum | \$0.00 | \$13.00 | \$10.00 | \$0.00 | \$10.00 | \$0.00 |
| April | Mean | \$0.05 | \$12.06 | \$9.69 | \$0.00 | \$12.63 | \$2.99 |
| | Maximum | \$10.00 | \$200.00 | \$150.00 | \$0.00 | \$1,000.00 | \$140.00 |
| May | Mean | \$0.13 | \$18.10 | \$9.31 | \$0.05 | \$4.53 | \$0.92 |
| | Maximum | \$20.00 | \$500.00 | \$100.00 | \$5.00 | \$30.00 | \$50.00 |
| June | Mean | \$0.00 | \$16.56 | \$12.20 | \$0.06 | \$4.64 | \$45.46 |
| | Maximum | \$0.00 | \$75.00 | \$75.00 | \$3.00 | \$20.00 | \$2,084.00 |
| July | Mean | \$0.00 | \$20.35 | \$18.44 | \$0.00 | \$3.42 | \$1.53 |
| | Maximum | \$0.00 | \$250.00 | \$250.00 | \$0.00 | \$30.00 | \$45.00 |
| August | Mean | \$0.00 | \$9.69 | \$5.80 | \$0.00 | \$4.79 | \$0.39 |
| | Maximum | \$0.00 | \$45.00 | \$60.00 | \$0.00 | \$40.00 | \$16.00 |
| September | Mean | \$0.00 | \$11.29 | \$6.55 | \$0.00 | \$4.22 | \$0.45 |
| | Maximum | \$0.00 | \$55.00 | \$50.00 | \$0.00 | \$39.00 | \$25.00 |
| October | Mean | \$0.00 | \$8.59 | \$2.20 | \$0.00 | \$4.38 | \$0.54 |
| | Maximum | \$0.00 | \$35.00 | \$10.00 | \$0.00 | \$25.00 | \$20.00 |
| November | Mean | \$0.00 | \$10.82 | \$2.94 | \$0.00 | \$3.75 | \$1.65 |
| | Maximum | \$0.00 | \$25.00 | \$35.00 | \$0.00 | \$10.00 | \$15.00 |
| December | Mean | \$0.00 | \$9.22 | \$3.70 | \$0.00 | \$3.78 | \$3.50 |
| | Maximum | \$0.00 | \$15.00 | \$10.00 | \$0.00 | \$11.00 | \$17.00 |
| Total | Mean | \$0.04 | \$14.10 | \$9.46 | \$0.01 | \$6.61 | \$4.62 |
| | Maximum | \$20.00 | \$500.00 | \$250.00 | \$5.00 | \$1,000.00 | \$2,084.00 |

Table 75 Estimated expenses by location on Blewett Falls Lake.

| Survey location | | Lodging | Gas | Food | Equipment Rental | Bait and Tackle | Other services |
|-------------------------------|----------------|----------------|-----------------|-----------------|------------------|-------------------|-------------------|
| Blewett Tailwater Access Area | Mean | \$0.00 | \$7.32 | \$5.05 | \$0.00 | \$5.42 | \$0.81 |
| | Maximum | \$0.00 | \$65.00 | \$75.00 | \$0.00 | \$30.00 | \$50.00 |
| Pee Dee Access Area | Mean | \$0.00 | \$27.50 | \$12.24 | \$0.01 | \$4.16 | \$0.90 |
| | Maximum | \$0.00 | \$500.00 | \$250.00 | \$2.00 | \$100.00 | \$50.00 |
| Grassy Islands Access Area | Mean | \$0.00 | \$11.64 | \$7.31 | \$0.05 | \$4.54 | \$4.70 |
| | Maximum | \$0.00 | \$60.00 | \$100.00 | \$3.00 | \$30.00 | \$80.00 |
| Blewett Falls Canoe Portage | Mean | \$0.00 | \$8.00 | \$13.75 | \$0.00 | \$8.08 | \$0.90 |
| | Maximum | \$0.00 | \$48.00 | \$100.00 | \$0.00 | \$300.00 | \$25.00 |
| U.S. Highway 74 Site | Mean | \$0.00 | \$10.32 | \$5.33 | \$0.00 | \$4.44 | \$0.73 |
| | Maximum | \$0.00 | \$55.00 | \$25.00 | \$0.00 | \$39.00 | \$25.00 |
| Informal Tailrace Access | Mean | \$0.20 | \$9.74 | \$4.66 | \$0.05 | \$5.65 | \$22.65 |
| | Maximum | \$20.00 | \$200.00 | \$40.00 | \$5.00 | \$26.00 | \$2,084.00 |
| Informal SR 1744 Site | Mean | \$0.13 | \$12.36 | \$19.50 | \$0.00 | \$18.03 | \$2.35 |
| | Maximum | \$10.00 | \$70.00 | \$150.00 | \$0.00 | \$1,000.00 | \$35.00 |
| Highway 109 | Mean | \$0.00 | \$9.20 | \$2.82 | \$0.00 | \$2.93 | \$3.33 |
| | Maximum | \$0.00 | \$20.00 | \$10.00 | \$0.00 | \$14.00 | \$45.00 |
| Total | Mean | \$0.04 | \$14.15 | \$9.51 | \$0.01 | \$6.59 | \$4.62 |
| | Maximum | \$20.00 | \$500.00 | \$250.00 | \$5.00 | \$1,000.00 | \$2,084.00 |

2004 to 2005 Resident Survey**Table 76 Frequency of Lake Tillery resident respondents per month.**

| Survey Months | Frequency | Percent of Surveys Sent (n=400) | Percentage of Total Respondents (n=2106) |
|---------------|----------------|------------------------------------|---|
| January-05 | 186.0 | 47 | 8.8 |
| February-05 | 169.0 | 42 | 8.0 |
| March-05 | 177.0 | 44 | 8.4 |
| May-04 | 219.0 | 55 | 10.4 |
| June-04 | 191.0 | 48 | 9.1 |
| July-04 | 197.0 | 49 | 9.4 |
| August-04 | 191.0 | 48 | 9.1 |
| September-04 | 214.0 | 54 | 10.2 |
| October-04 | 187.0 | 47 | 8.9 |
| November-04 | 177.0 | 44 | 8.4 |
| December-04 | 198.0 | 49 | 9.4 |
| Total | 2,106.0 | | 100.0 |

Table 77 Frequency of Blewett Falls Lake resident respondents per month.

| Survey Period | Frequency | Percent of Surveys Sent (n=400) | Percent of Total Respondents (n=21) |
|---------------|-----------|------------------------------------|--|
| January-05 | 3 | 100 | 14.3 |
| February-05 | 3 | 100 | 14.3 |
| March-05 | 2 | 67 | 9.5 |
| May-04 | 2 | 67 | 9.5 |
| June-04 | 2 | 67 | 9.5 |
| July-04 | 1 | 33 | 4.8 |
| August-04 | 3 | 100 | 14.3 |
| September-04 | 3 | 100 | 14.3 |
| October-04 | 1 | 33 | 4.8 |
| November-04 | 1 | 33 | 4.8 |
| December-04 | 0 | 0 | 0 |
| Total | 21 | | 100.0 |

Table 78 Lake Tillery resident's number of days at the lake.

| Survey Month | Count | Days at the Lake | | | | | Total |
|--------------|------------------------|------------------|--------------|---------------|---------------|--------------|---------------|
| | | 1-7 Days | 8-14 Days | 15-21 Days | 22-31 Days | None | |
| January | Count | 42.0 | 12.0 | 8.0 | 67.0 | 52.0 | 181.0 |
| | % within Survey period | 23.2 | 6.6 | 4.4 | 37.0 | 28.7 | 100.0 |
| | % of Total | 2.0 | 0.6 | 0.4 | 3.3 | 2.5 | 8.8 |
| February | Count | 41.0 | 11.0 | 2.0 | 64.0 | 49.0 | 167.0 |
| | % within Survey period | 24.6 | 6.6 | 1.2 | 38.3 | 29.3 | 100.0 |
| | % of Total | 2.0 | 0.5 | 0.1 | 3.1 | 2.4 | 8.1 |
| March | Count | 54.0 | 23.0 | 4.0 | 60.0 | 35.0 | 176.0 |
| | % within Survey period | 30.7 | 13.1 | 2.3 | 34.1 | 19.9 | 100.0 |
| | % of Total | 2.6 | 1.1 | 0.2 | 2.9 | 1.7 | 8.6 |
| May | Count | 65.0 | 35.0 | 20.0 | 82.0 | 13.0 | 215.0 |
| | % within Survey period | 30.2 | 16.3 | 9.3 | 38.1 | 6.0 | 100.0 |
| | % of Total | 3.2 | 1.7 | 1.0 | 4.0 | 0.6 | 10.5 |
| June | Count | 40.0 | 41.0 | 22.0 | 72.0 | 8.0 | 183.0 |
| | % within Survey period | 21.9 | 22.4 | 12.0 | 39.3 | 4.4 | 100.0 |
| | % of Total | 1.9 | 2.0 | 1.1 | 3.5 | 0.4 | 8.9 |
| July | Count | 44.0 | 45.0 | 25.0 | 73.0 | 5.0 | 192.0 |
| | % within Survey period | 22.9 | 23.4 | 13.0 | 38.0 | 2.6 | 100.0 |
| | % of Total | 2.1 | 2.2 | 1.2 | 3.6 | 0.2 | 9.4 |
| August | Count | 39.0 | 40.0 | 15.0 | 75.0 | 13.0 | 182.0 |
| | % within Survey period | 21.4 | 22.0 | 8.2 | 41.2 | 7.1 | 100.0 |
| | % of Total | 1.9 | 1.9 | 0.7 | 3.7 | 0.6 | 8.9 |
| September | Count | 73.0 | 35.0 | 17.0 | 69.0 | 16.0 | 210.0 |
| | % within Survey period | 34.8 | 16.7 | 8.1 | 32.9 | 7.6 | 100.0 |
| | % of Total | 3.6 | 1.7 | 0.8 | 3.4 | 0.8 | 10.2 |
| October | Count | 65.0 | 21.0 | 17.0 | 60.0 | 20.0 | 183.0 |
| | % within Survey period | 35.5 | 11.5 | 9.3 | 32.8 | 10.9 | 100.0 |
| | % of Total | 3.2 | 1.0 | 0.8 | 2.9 | 1.0 | 8.9 |
| November | Count | 54.0 | 14.0 | 6.0 | 72.0 | 26.0 | 172.0 |
| | % within Survey period | 31.4 | 8.1 | 3.5 | 41.9 | 15.1 | 100.0 |
| | % of Total | 2.6 | 0.7 | 0.3 | 3.5 | 1.3 | 8.4 |
| December | Count | 53.0 | 19.0 | 7.0 | 75.0 | 37.0 | 191.0 |
| | % within Survey period | 27.7 | 9.9 | 3.7 | 39.3 | 19.4 | 100.0 |
| | % of Total | 2.6 | 0.9 | 0.3 | 3.7 | 1.8 | 9.3 |
| Total | Count | 570.0 | 296.0 | 143.0 | 769.0 | 274.0 | 2052.0 |
| | % of Total | 27.8 | 14.4 | 7.0 | 37.5 | 13.4 | 100.0 |

Table 79 **Blewett Falls Lake resident's number of days at the lake.**

| | Survey Month | Days at the lake | | | | Total |
|--------------|------------------------|------------------|--------------|---------------|---------------|--------------|
| | | 1-7 Days | 8-14 Days | 15-21 Days | 22-31 Days | |
| January | Count | 2 | 1 | 0 | 0 | 3 |
| | % within Survey period | 66.7 | 33.3 | .0 | .0 | 100.0 |
| | % of Total | 10.0 | 5.0 | .0 | .0 | 15.0 |
| February | Count | 1 | 0 | 0 | 1 | 2 |
| | % within Survey period | 50.0 | .0 | .0 | 50.0 | 100.0 |
| | % of Total | 5.0 | .0 | .0 | 5.0 | 10.0 |
| March | Count | 1 | 1 | 0 | 0 | 2 |
| | % within Survey period | 50.0 | 50.0 | .0 | .0 | 100.0 |
| | % of Total | 5.0 | 5.0 | .0 | .0 | 10.0 |
| May | Count | 1 | 0 | 0 | 1 | 2 |
| | % within Survey period | 50.0 | .0 | .0 | 50.0 | 100.0 |
| | % of Total | 5.0 | .0 | .0 | 5.0 | 10.0 |
| June | Count | 1 | 0 | 1 | 0 | 2 |
| | % within Survey period | 50.0 | .0 | 50.0 | .0 | 100.0 |
| | % of Total | 5.0 | .0 | 5.0 | .0 | 10.0 |
| July | Count | 0 | 0 | 0 | 1 | 1 |
| | % within Survey period | .0 | .0 | .0 | 100.0 | 100.0 |
| | % of Total | .0 | .0 | .0 | 5.0 | 5.0 |
| August | Count | 1 | 1 | 1 | 0 | 3 |
| | % within Survey period | 33.3 | 33.3 | 33.3 | .0 | 100.0 |
| | % of Total | 5.0 | 5.0 | 5.0 | .0 | 15.0 |
| September | Count | 1 | 1 | 1 | 0 | 3 |
| | % within Survey period | 33.3 | 33.3 | 33.3 | .0 | 100.0 |
| | % of Total | 5.0 | 5.0 | 5.0 | .0 | 15.0 |
| October | Count | 1 | 0 | 0 | 0 | 1 |
| | % within Survey period | 100.0 | .0 | .0 | .0 | 100.0 |
| | % of Total | 5.0 | .0 | .0 | .0 | 5.0 |
| November | Count | 0 | 0 | 0 | 1 | 1 |
| | % within Survey period | .0 | .0 | .0 | 100.0 | 100.0 |
| | % of Total | .0 | .0 | .0 | 5.0 | 5.0 |
| Total | Count | 9 | 4 | 3 | 4 | 20 |
| | % of Total | 45.0 | 20.0 | 15.0 | 20.0 | 100.0 |

Table 80 Lake Tillery residents - number of adults.

| # of Adults | | Survey period | | | | | | | | | | | Total |
|--------------|-------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| | | Jan | Feb | Mar | May | June | July | Aug | Sept | Oct | Nov | Dec | |
| 1-5 | Count | 180.0 | 151.0 | 138.0 | 205.0 | 161.0 | 168.0 | 174.0 | 184.0 | 169.0 | 169.0 | 180.0 | 1,879 |
| | % within | 9.6 | 8.0 | 7.3 | 10.9 | 8.6 | 8.9 | 9.3 | 9.8 | 9.0 | 9.0 | 9.6 | 100 |
| | % of Total | 9.0 | 7.5 | 6.9 | 10.2 | 8.0 | 8.4 | 8.7 | 9.2 | 8.4 | 8.4 | 9.0 | 93.7 |
| 6-10 | Count | 2.0 | 2.0 | 7.0 | 9.0 | 19.0 | 23.0 | 10.0 | 19.0 | 10.0 | 3.0 | 4.0 | 108.0 |
| | % within | 1.9 | 1.9 | 6.5 | 8.3 | 17.6 | 21.3 | 9.3 | 17.6 | 9.3 | 2.8 | 3.7 | 100.0 |
| | % of Total | 0.1 | 0.1 | 0.3 | 0.4 | 0.9 | 1.1 | 0.5 | 0.9 | 0.5 | 0.1 | 0.2 | 5.4 |
| 11-15 | Count | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 3.0 | 3.0 | 2.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| | % within | 10.0 | 0.0 | 0.0 | 0.0 | 10.0 | 30.0 | 30.0 | 20.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.5 |
| 16-20 | Count | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| | % within | 0.0 | 0.0 | 0.0 | 33.3 | 33.3 | 33.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 21-25 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.0 | 0.0 | 50.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 26-30 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.0 | 0.0 | 50.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 46-50 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ≥51 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | Count | 183.0 | 153.0 | 145.0 | 215.0 | 183.0 | 195.0 | 189.0 | 206.0 | 181.0 | 172.0 | 184.0 | 2,006.0 |
| | % within | 9.1 | 7.6 | 7.2 | 10.7 | 9.1 | 9.7 | 9.4 | 10.3 | 9.0 | 8.6 | 9.2 | 100.0 |
| | % of Total | 9.1 | 7.6 | 7.2 | 10.7 | 9.1 | 9.7 | 9.4 | 10.3 | 9.0 | 8.6 | 9.2 | 100.0 |

Table 81 Lake Tillery residents - number of children.

| # of Children | | Survey period | | | | | | | | | | | Total |
|---------------|-------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|
| | | Jan | Feb | Mar | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 1-5 | Count | 182.0 | 151.0 | 141.0 | 212.0 | 178.0 | 189.0 | 183.0 | 201.0 | 180.0 | 172.0 | 184.0 | 1,973.0 |
| | % within | 9.2 | 7.7 | 7.1 | 10.7 | 9.0 | 9.6 | 9.3 | 10.2 | 9.1 | 8.7 | 9.3 | 100.0 |
| | % of Total | 9.1 | 7.5 | 7.0 | 10.6 | 8.9 | 9.4 | 9.1 | 10.0 | 9.0 | 8.6 | 9.2 | 98.6 |
| 6-10 | Count | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 4.0 | 4.0 | 2.0 | 1.0 | 0.0 | 0.0 | 19.0 |
| | % within | 5.3 | 5.3 | 10.5 | 10.5 | 10.5 | 21.1 | 21.1 | 10.5 | 5.3 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.9 |
| 11-15 | Count | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| | % within | 0.0 | 0.0 | 0.0 | 16.7 | 16.7 | 16.7 | 33.3 | 16.7 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| 16-20 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21-25 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31-35 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ≥51 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | % within | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | Count | 183.0 | 152.0 | 143.0 | 215.0 | 182.0 | 194.0 | 189.0 | 206.0 | 181.0 | 172.0 | 185.0 | 2,002.0 |
| | % of Total | 9.1 | 7.6 | 7.1 | 10.7 | 9.1 | 9.7 | 9.4 | 10.3 | 9.0 | 8.6 | 9.2 | 100.0 |

Table 82 Blewett Falls Lake residents - number of adults.

| # Adults | | Survey period | | | | | | | | | | |
|--------------|--------------------------|---------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|------------|------------|--------------|
| | | Jan | Feb | Mar | May | Jun | Jul | Aug | Sep | Oct | Nov | Total |
| 0 | Count | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| | % within adults | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| 1-5 | Count | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 3.0 | 2.0 | 1.0 | 1.0 | 18.0 |
| | % within adults | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 5.6 | 16.7 | 11.1 | 5.6 | 5.6 | 100.0 |
| | % of Total | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 15.0 | 10.0 | 5.0 | 5.0 | 90.0 |
| 6-10 | Count | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| | % within adults | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 100.0 |
| | % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 5.0 |
| Total | Count | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 3.0 | 3.0 | 1.0 | 1.0 | 20.0 |
| | % within f adults | 15.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 15.0 | 15.0 | 5.0 | 5.0 | 100.0 |
| | % of Total | 15.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 15.0 | 15.0 | 5.0 | 5.0 | 100.0 |

Table 83 Blewett Falls Lake residents - number of children.

| # Children | | Survey period | | | | | | | | | | |
|--------------|----------------------------|---------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|------------|------------|--------------|
| | | Jan | Feb | Mar | May | Jun | Jul | Aug | Sep | Oct | Nov | Total |
| 0 | Count | 2.0 | 2.0 | 1.0 | 0.0 | 1.0 | 1.0 | 2.0 | 2.0 | 0.0 | 1.0 | 12.0 |
| | % within child size | 16.7 | 16.7 | 8.3 | 0.0 | 8.3 | 8.3 | 16.7 | 16.7 | 0.0 | 8.3 | 100.0 |
| | % of Total | 10.0 | 10.0 | 5.0 | 0.0 | 5.0 | 5.0 | 10.0 | 10.0 | 0.0 | 5.0 | 60.0 |
| 1-5 | Count | 1.0 | 0.0 | 1.0 | 2.0 | 1.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 8.0 |
| | % within child size | 12.5 | 0.0 | 12.5 | 25.0 | 12.5 | 0.0 | 12.5 | 12.5 | 12.5 | 0.0 | 100.0 |
| | % of Total | 5.0 | 0.0 | 5.0 | 10.0 | 5.0 | 0.0 | 5.0 | 5.0 | 5.0 | 0.0 | 40.0 |
| Total | Count | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 3.0 | 3.0 | 1.0 | 1.0 | 20.0 |
| | % within child size | 15.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 15.0 | 15.0 | 5.0 | 5.0 | 100.0 |
| | % of Total | 15.0 | 10.0 | 10.0 | 10.0 | 10.0 | 5.0 | 15.0 | 15.0 | 5.0 | 5.0 | 100.0 |

Table 84 Lake Tillery resident recreation participation.

| Survey Period | Motor boating | Boat Fishing | Bank Fishing | Lake Canoeing | River Canoeing | Hiking | Swimming | Jet Skiing | Water Skiing | Camping | Picnicking | Sunbathing | Sailing | Hunting | Wildlife viewing | Other activities |
|----------------|---------------|--------------|--------------|---------------|----------------|------------|-------------|-------------|--------------|------------|-------------|-------------|------------|------------|------------------|------------------|
| January | 35 | 27 | 30 | 5 | 4 | 22 | 6 | 5 | 6 | 4 | 6 | 23 | 0 | 10 | 63 | 25 |
| February | 37 | 21 | 27 | 8 | 6 | 26 | 4 | 7 | 2 | 2 | 7 | 20 | 1 | 4 | 66 | 21 |
| March | 57 | 31 | 58 | 9 | 2 | 12 | 6 | 9 | 5 | 3 | 13 | 31 | 0 | 1 | 56 | 17 |
| May | 163 | 69 | 95 | 15 | 2 | 11 | 126 | 90 | 59 | 2 | 35 | 116 | 1 | 2 | 94 | 16 |
| June | 148 | 70 | 100 | 22 | 4 | 17 | 127 | 96 | 63 | 5 | 42 | 102 | 6 | 4 | 79 | 15 |
| July | 168 | 73 | 97 | 19 | 4 | 16 | 153 | 104 | 81 | 3 | 39 | 121 | 10 | 3 | 97 | 15 |
| August | 154 | 59 | 82 | 24 | 5 | 17 | 126 | 85 | 68 | 3 | 27 | 97 | 3 | 0 | 80 | 6 |
| September | 171 | 59 | 86 | 26 | 7 | 19 | 125 | 92 | 66 | 3 | 36 | 97 | 7 | 9 | 85 | 14 |
| October | 115 | 50 | 59 | 13 | 1 | 15 | 47 | 58 | 29 | 3 | 24 | 67 | 3 | 3 | 69 | 12 |
| November | 75 | 36 | 51 | 13 | 5 | 16 | 7 | 14 | 8 | 1 | 12 | 20 | 2 | 9 | 68 | 14 |
| December | 56 | 41 | 42 | 17 | 5 | 23 | 10 | 13 | 8 | 1 | 17 | 28 | 4 | 14 | 87 | 19 |
| Total | 1,179 | 536 | 727 | 171 | 45 | 194 | 737 | 573 | 395 | 30 | 258 | 722 | 37 | 59 | 844 | 174 |
| Percent | 54.2 | 24.6 | 33.4 | 7.9 | 2.1 | 8.9 | 33.9 | 26.3 | 18.2 | 1.4 | 11.9 | 33.2 | 1.7 | 2.7 | 38.8 | 7.9 |

Table 85 Frequency of Lake Tillery resident recreation participation days.

| Survey Period | | Recreation Activity | | | | | | | | | | | | | | |
|---------------|-------------|---------------------|-------------|----------------|---------------|--------------|--------------|--------------|------------|------------|--------------|--------------|--------------|------------|------------------|--------------|
| | | Motor boating | Jet skiing | River canoeing | Lake canoeing | Swimming | Boat fishing | Bank fishing | Hunting | Camping | Picnicking | Hiking | Sunbathing | Sailing | Wildlife viewing | Other |
| Jan 05 | Days | 581 | 214 | 217 | 44 | 347 | 412 | 548 | 40 | 12 | 50 | 169 | 414 | 0 | 1265 | 99 |
| | Mean | 3.1 | 1.1 | 1.1 | 0.2 | 1.8 | 2.2 | 2.9 | 0.2 | 0.1 | 0.3 | 0.9 | 2.2 | 0.0 | 6.7 | 0.5 |
| Feb 05 | Days | 164 | 33 | 5 | 25 | 15 | 83 | 155 | 5 | 5 | 20 | 137 | 38 | 2 | 1021 | 191 |
| | Mean | 1.3 | 0.3 | 0.0 | 0.2 | 0.1 | 0.7 | 1.3 | 0.0 | 0.0 | 0.2 | 1.1 | 0.3 | 0.0 | 8.3 | 1.6 |
| Mar 05 | Days | 351 | 92 | 34 | 28 | 80 | 230 | 343 | 0 | 2 | 30 | 178 | 80 | 0 | 721 | 139 |
| | Mean | 2.9 | 0.8 | 0.3 | 0.2 | 0.7 | 1.9 | 2.8 | 0.0 | 0.0 | 0.2 | 1.5 | 0.7 | 0.0 | 6.0 | 1.2 |
| May 04 | Days | 1245 | 700 | 15 | 57 | 883 | 410 | 656 | 60 | 11 | 132 | 62 | 814 | 2 | 1356 | 165 |
| | Mean | 6.0 | 3.4 | 0.1 | 0.3 | 4.2 | 2.0 | 3.2 | 0.3 | 0.1 | 0.6 | 0.3 | 3.9 | 0.0 | 6.6 | 0.8 |
| Jun 04 | Days | 1530 | 830 | 24 | 60 | 1267 | 407 | 793 | 25 | 50 | 186 | 171 | 898 | 38 | 1484 | 522 |
| | Mean | 8.7 | 4.7 | 0.1 | 0.3 | 7.2 | 2.3 | 4.5 | 0.1 | 0.3 | 1.1 | 1.0 | 5.1 | 0.2 | 8.4 | 3.0 |
| Jul 04 | Days | 1748 | 931 | 11 | 101 | 1874 | 511 | 684 | 0 | 17 | 194 | 62 | 1010 | 46 | 1978 | 157 |
| | Mean | 8.8 | 4.7 | 0.1 | 0.5 | 9.5 | 2.6 | 3.5 | 0.0 | 0.1 | 1.0 | 0.3 | 5.1 | 0.2 | 10.0 | 0.8 |
| Aug 04 | Days | 1207 | 673 | 38 | 87 | 999 | 348 | 656 | 0 | 40 | 98 | 63 | 650 | 9 | 1082 | 104 |
| | Mean | 6.5 | 3.6 | 0.2 | 0.5 | 5.3 | 1.9 | 3.5 | 0.0 | 0.2 | 0.5 | 0.3 | 3.5 | 0.0 | 5.8 | 0.6 |
| Sep 04 | Days | 1301 | 714 | 42 | 98 | 1064 | 423 | 675 | 52 | 15 | 131 | 70 | 671 | 84 | 1624 | 152 |
| | Mean | 6.5 | 3.6 | 0.2 | 0.5 | 5.3 | 2.1 | 3.4 | 0.3 | 0.1 | 0.7 | 0.4 | 3.4 | 0.4 | 8.1 | 0.8 |
| Oct 04 | Days | 921.5 | 537 | 30 | 44 | 490 | 489 | 592 | 15 | 4 | 124 | 26 | 410 | 12 | 1057 | 328 |
| | Mean | 5.3 | 3.1 | 0.2 | 0.3 | 2.8 | 2.8 | 3.4 | 0.1 | 0.0 | 0.7 | 0.1 | 2.3 | 0.1 | 6.0 | 1.9 |
| Nov 04 | Days | 485 | 97 | 15 | 29 | 73 | 196 | 314 | 30 | 5 | 38 | 61 | 69 | 24 | 1269 | 216 |
| | Mean | 2.7 | 0.5 | 0.1 | 0.2 | 0.4 | 1.1 | 1.7 | 0.2 | 0.0 | 0.2 | 0.3 | 0.4 | 0.1 | 7.0 | 1.2 |
| Dec 04 | Days | 580 | 299 | 19 | 59 | 366 | 293 | 398 | 78 | 0 | 126 | 133 | 235 | 5 | 1851 | 859 |
| | Mean | 3.7 | 1.9 | 0.1 | 0.4 | 2.3 | 1.9 | 2.6 | 0.5 | 0.0 | 0.8 | 0.9 | 1.5 | 0.0 | 11.9 | 5.5 |
| Total | Days | 10,113.5 | 5120 | 450 | 632 | 7,458 | 3,802 | 5,814 | 305 | 161 | 1,129 | 1,132 | 5,289 | 222 | 14,708 | 2,932 |
| | Mean | 5.3 | 2.7 | 0.2 | 0.3 | 3.9 | 2.0 | 3.0 | 0.2 | 0.1 | 0.6 | 0.6 | 2.8 | 0.1 | 7.7 | 1.5 |

Table 86 **Blewett Falls Lake resident recreation participation by month.**

| Survey period | Motor boating | Boat Fishing | Bank Fishing | Lake Canoeing | River Canoeing | Hiking | Swimming | Jet Skiing | Water Skiing | Camping | Picnicking | Sunbathing | Wildlife Viewing | Other Activities |
|----------------|---------------|--------------|--------------|---------------|----------------|-------------|------------|------------|--------------|-------------|-------------|-------------|------------------|------------------|
| January | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| February | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 1 |
| March | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| May | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 2 | 2 | 1 | 2 | 0 |
| June | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| July | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| August | 1 | 1 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 0 |
| September | 1 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| November | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 7 | 10 | 11 | 7 | 6 | 9 | 2 | 2 | 0 | 4 | 11 | 3 | 17 | 4 |
| Percent | 33.3 | 47.6 | 52.4 | 33.3 | 28.6 | 42.9 | 9.5 | 9.5 | 0.0 | 19.0 | 52.4 | 14.3 | 81.0 | 19.0 |

Table 87 Frequency of Blewett Falls Lake resident participation days.

| Survey period | | Motor Boating | Jet Skiing | River Canoeing | Lake Canoeing | Swimming | Boat Fishing | Bank Fishing | Camping | Picnicking | Hiking | Sunbathing | Wildlife Viewing | Other |
|---------------|-------------|---------------|-------------|----------------|---------------|------------|--------------|--------------|-------------|-------------|-------------|-------------|------------------|-------------|
| Jan | Days | 6.0 | 0.0 | 1.0 | 3.0 | 0.0 | 3.0 | 9.0 | 2.0 | 3.0 | 6.0 | 0.0 | 12.0 | 0.0 |
| | Mean | 2.0 | 0.0 | 0.3 | 1.0 | 0.0 | 1.0 | 3.0 | 0.7 | 1.0 | 2.0 | 0.0 | 4.0 | 0.0 |
| Feb | Days | 0.0 | 0.0 | 2.0 | 4.0 | 0.0 | 3.0 | 1.0 | 0.0 | 4.0 | 2.0 | 1.0 | 34.0 | 28.0 |
| | Mean | 0.0 | 0.0 | 0.7 | 1.3 | 0.0 | 1.0 | 0.3 | 0.0 | 1.3 | 0.7 | 0.3 | 11.3 | 9.3 |
| Mar | Days | 2.0 | 0.0 | 3.0 | 3.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 7.0 | 0.0 |
| | Mean | 1.0 | 0.0 | 1.5 | 1.5 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 3.5 | 0.0 |
| Apr | Days | 17.0 | 9.0 | 4.0 | 11.0 | 0.0 | 16.0 | 15.0 | 8.0 | 10.0 | 7.0 | 8.0 | 10.0 | 0.0 |
| | Mean | 8.5 | 4.5 | 2.0 | 5.5 | 0.0 | 8.0 | 7.5 | 4.0 | 5.0 | 3.5 | 4.0 | 5.0 | 0.0 |
| Jun | Days | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 4.0 | 15.0 | 0.0 | 20.0 | 0.0 |
| | Mean | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 2.0 | 7.5 | 0.0 | 10.0 | 0.0 |
| Jul | Days | 7.0 | 7.0 | 0.0 | 0.0 | 7.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.0 |
| | Mean | 7.0 | 7.0 | 0.0 | 0.0 | 7.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.0 |
| Aug | Days | 2.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 5.0 | 0.0 | 13.0 | 10.0 | 3.0 | 17.0 | 0.0 |
| | Mean | 0.7 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 1.7 | 0.0 | 4.3 | 3.3 | 1.0 | 5.7 | 0.0 |
| Sep | Days | 2.0 | 0.0 | 4.0 | 5.0 | 0.0 | 8.0 | 8.0 | 6.0 | 5.0 | 0.0 | 0.0 | 5.0 | 0.0 |
| | Mean | 0.7 | 0.0 | 1.3 | 1.7 | 0.0 | 2.7 | 2.7 | 2.0 | 1.7 | 0.0 | 0.0 | 1.7 | 0.0 |
| Oct | Days | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| | Mean | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Nov | Days | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 |
| | Mean | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 | 30.0 |
| Total | Days | 39.0 | 16.0 | 14.0 | 30.0 | 7.0 | 30.0 | 45.0 | 16.0 | 41.0 | 40.0 | 12.0 | 135.0 | 96.0 |
| | Mean | 1.9 | 0.8 | 0.7 | 1.4 | 0.3 | 1.4 | 2.1 | 0.8 | 2.0 | 1.9 | 0.6 | 6.4 | 4.6 |

Table 88 Lake Tillery resident's concern for crowded conditions.

| Level of Concern for Crowded Conditions | Frequency | Percentage |
|---|--------------|--------------|
| Low | 676 | 31.9 |
| Medium | 357 | 16.8 |
| High | 132 | 6.2 |
| Total | 1,165 | 54.9 |
| Did not address | 957 | 45.1 |
| Total | 2,122 | 100.0 |

Table 89 Lake Tillery resident's concern for crowded conditions by month.

| Month | Count | Crowded Conditions on the Lake | | | Total |
|--------------|-------------------------------|--------------------------------|--------------|--------------|----------------|
| | | Low | Medium | High | |
| January | Count | 53.0 | 14.0 | 3.0 | 70.0 |
| | % within Survey period | 75.7 | 20.0 | 4.3 | 100.0 |
| | % of Total | 4.6 | 1.2 | 0.3 | 6.0 |
| February | Count | 44.0 | 9.0 | 3.0 | 56.0 |
| | % within Survey period | 78.6 | 16.1 | 5.4 | 100.0 |
| | % of Total | 3.8 | 0.8 | 0.3 | 4.8 |
| March | Count | 53.0 | 20.0 | 1.0 | 74.0 |
| | % within Survey period | 71.6 | 27.0 | 1.4 | 100.0 |
| | % of Total | 4.6 | 1.7 | 0.1 | 6.4 |
| May | Count | 76.0 | 49.0 | 25.0 | 150.0 |
| | % within Survey period | 50.7 | 32.7 | 16.7 | 100.0 |
| | % of Total | 6.5 | 4.2 | 2.1 | 12.9 |
| June | Count | 57.0 | 55.0 | 23.0 | 135.0 |
| | % within Survey period | 42.2 | 40.7 | 17.0 | 100.0 |
| | % of Total | 4.9 | 4.7 | 2.0 | 11.6 |
| July | Count | 66.0 | 68.0 | 23.0 | 157.0 |
| | % within Survey period | 42.0 | 43.3 | 14.6 | 100.0 |
| | % of Total | 5.7 | 5.8 | 2.0 | 13.5 |
| August | Count | 64.0 | 52.0 | 19.0 | 135.0 |
| | % within Survey period | 47.4 | 38.5 | 14.1 | 100.0 |
| | % of Total | 5.5 | 4.5 | 1.6 | 11.6 |
| September | Count | 82.0 | 43.0 | 17.0 | 142.0 |
| | % within Survey period | 57.7 | 30.3 | 12.0 | 100.0 |
| | % of Total | 7.1 | 3.7 | 1.5 | 12.2 |
| October | Count | 73.0 | 25.0 | 6.0 | 104.0 |
| | % within Survey period | 70.2 | 24.0 | 5.8 | 100.0 |
| | % of Total | 6.3 | 2.1 | 0.5 | 8.9 |
| November | Count | 50.0 | 14.0 | 7.0 | 71.0 |
| | % within Survey period | 70.4 | 19.7 | 9.9 | 100.0 |
| | % of Total | 4.3 | 1.2 | 0.6 | 6.1 |
| December | Count | 56.0 | 8.0 | 5.0 | 69.0 |
| | % within Survey period | 81.2 | 11.6 | 7.2 | 100.0 |
| | % of Total | 4.8 | 0.7 | 0.4 | 5.9 |
| Total | Count | 674.0 | 357.0 | 132.0 | 1,163.0 |
| | % within Survey period | 58.0 | 30.7 | 11.3 | 100.0 |
| | % of Total | 58.0 | 30.7 | 11.3 | 100.0 |

Table 90 Lake Tillery resident's level of concern for limited access.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|--------------|
| Low | 833 | 39.3 |
| Medium | 113 | 5.3 |
| High | 44 | 2.1 |
| Total | 990 | 46.6 |
| Did not address | 1,132 | 53.4 |
| Total | 2,122 | 100.0 |

Table 91 Lake Tillery resident's level of concern for improper disposal of trash.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|--------------|
| Low | 553 | 26.1 |
| Medium | 345 | 16.3 |
| High | 251 | 11.8 |
| Total | 1,149 | 54.1 |
| Did not address | 973 | 45.9 |
| Total | 2,122 | 100.0 |

Table 92 Lake Tillery resident's level of concern for lake water levels.

| Level of Concern | Frequency | Percentage |
|------------------------|--------------|--------------|
| Low | 618 | 29.1 |
| Medium | 375 | 17.7 |
| High | 323 | 15.2 |
| Total | 1,316 | 62.0 |
| Did not address | 806 | 38.0 |
| Total | 2,122 | 100.0 |

Table 93 Blewett Falls Lake resident's level of concern for crowded conditions.

| Level of Concern | Frequency | Percentage |
|------------------------|-----------|--------------|
| Low | 10 | 47.6 |
| Medium | 1 | 4.8 |
| High | 0 | 0 |
| Total | 11 | 52.4 |
| Did not address | 10 | 47.6 |
| Total | 21 | 100.0 |

Table 94 Blewett Falls Lake resident's level of concern for crowded conditions.

| Survey Month | | Level of Concern for Crowded Conditions on the lake | | Total |
|--------------|------------------------|---|------------|--------------|
| | | Low | Medium | |
| January | Count | 1 | 0 | 1 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 9.1 | .0 | 9.1 |
| February | Count | 2 | 0 | 2 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 18.2 | .0 | 18.2 |
| March | Count | 1 | 0 | 1 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 9.1 | .0 | 9.1 |
| May | Count | 0 | 1 | 1 |
| | % within Survey period | .0 | 100.0 | 100.0 |
| | % of Total | .0 | 9.1 | 9.1 |
| July | Count | 1 | 0 | 1 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 9.1 | .0 | 9.1 |
| August | Count | 2 | 0 | 2 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 18.2 | .0 | 18.2 |
| September | Count | 2 | 0 | 2 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 18.2 | .0 | 18.2 |
| October | Count | 1 | 0 | 1 |
| | % within Survey period | 100.0 | .0 | 100.0 |
| | % of Total | 9.1 | .0 | 9.1 |
| Total | Count | 10 | 1 | 11 |
| | % of Total | 90.9 | 9.1 | 100.0 |

Table 95 Blewett Falls Lake resident's level of concern for limited access.

| Level of Concern | Frequency | Percentage |
|------------------|-----------|--------------|
| Low | 6 | 28.6 |
| Medium | 1 | 4.8 |
| High | 7 | 33.3 |
| Total | 14 | 66.7 |
| Did not address | 7 | 33.3 |
| Total | 21 | 100.0 |

Table 96 Blewett Falls Lake resident's level of concern-trash/litter.

| Level of Concern | Frequency | Percentage |
|------------------|-----------|--------------|
| Low | 4 | 19.0 |
| Medium | 2 | 9.5 |
| High | 5 | 23.8 |
| Total | 11 | 52.4 |
| Did not address | 10 | 47.6 |
| Total | 21 | 100.0 |

Table 97 Blewett Falls Lake resident's level of concern for lake water levels.

| Level of Concern | Frequency | Percentage |
|------------------|-----------|--------------|
| Low | 4 | 19.0 |
| Medium | 4 | 19.0 |
| High | 6 | 28.6 |
| Total | 14 | 66.7 |
| Did not address | 7 | 33.3 |
| Total | 21 | 100.0 |

Table 98 Lake Tillery resident's use of public boat launch facilities.

| Do you use a public boat launch facility? | Frequency | Percentage |
|---|--------------|--------------|
| Yes | 368 | 16.9 |
| No | 1,292 | 59.4 |
| Total | 1,660 | 76.3 |
| Did not address | 515 | 23.7 |
| Total | 2,175 | 100.0 |

Table 99 Lake Tillery resident's choice of boat launch facility.

| What facility do you use as a boat launch? | Frequency | Percentage |
|--|--------------|--------------|
| Lilly's Bridge Access | 106 | 4.9 |
| Ken's Marina | 5 | .2 |
| Swift Island Access | 64 | 2.9 |
| Norwood Access Area | 49 | 2.3 |
| Cook's Marina | 24 | 1.1 |
| Carolina Forest | 1 | .0 |
| Stony Mountain Access | 4 | .2 |
| Sugar Loaf Shores | 2 | .1 |
| Holiday Shores | 1 | .0 |
| Mountain Creek | 5 | .2 |
| Woodrun | 11 | .5 |
| Morrow Mountain State Park | 2 | .1 |
| Wildlife Landing | 24 | 1.1 |
| Informal SR 1740 & 1745 | 1 | .0 |
| Total | 299 | 13.7 |
| Did not address | 1,876 | 86.3 |
| Total | 2,175 | 100.0 |

Table 100 Blewett Falls Lake resident's use of public boat launch facilities.

| Do you use a public boat launch facility? | Frequency | Percentage |
|---|-----------|--------------|
| Yes | 11 | 52.4 |
| No | 7 | 33.3 |
| Total | 18 | 85.7 |
| Did not address | 3 | 14.3 |
| Total | 21 | 100.0 |

Table 101 Blewett Falls Lake resident's choice of boat launch facility.

| What facility do you use as a boat launch? | Frequency | Percentage |
|--|-----------|--------------|
| Mountain Creek | 5 | 23.8 |
| Anson County | 2 | 9.5 |
| Public Access Area | 1 | 4.8 |
| Multiple Areas | 1 | 4.8 |
| Blewett Falls | 1 | 4.8 |
| Richmond County | 1 | 4.8 |
| Total | 11 | 52.4 |
| Did not address | 10 | 47.6 |
| Total | 21 | 100.0 |

Table 102 Lake Tillery resident's estimated recreation expenses.

| Survey period | Estimated Expenses | | | | | Equipment Rental |
|---------------|--------------------|--------------------|---------------------|--------------------|-------------------|------------------|
| | Gas | Food | Bait and Tackle | Use Fees | | |
| May 04 | Sum | \$13,331.00 | \$13,191.00 | \$1,791.00 | \$841.00 | |
| | Mean | \$82.29 | \$112.74 | \$20.12 | \$56.07 | |
| | Median | \$50.00 | \$65.00 | \$15.00 | \$16.00 | |
| | Std. Dev. | \$74.03 | \$124.02 | \$15.89 | \$61.14 | |
| June 04 | Sum | \$16,212.00 | \$17,281.00 | \$2,192.00 | \$2,048.00 | \$65.00 |
| | Mean | \$108.08 | \$152.93 | \$24.09 | \$89.04 | \$32.50 |
| | Median | \$80.00 | \$100.00 | \$15.00 | \$100.00 | \$32.50 |
| | Std. Dev. | \$101.45 | \$149.48 | \$26.53 | \$100.74 | \$24.75 |
| July 04 | Sum | \$18,343.00 | \$22,430.00 | \$3,127.00 | \$875.00 | \$100.00 |
| | Mean | \$106.03 | \$172.54 | \$32.92 | \$72.92 | \$100.00 |
| | Median | \$80.00 | \$100.00 | \$20.00 | \$70.00 | \$100.00 |
| | Std. Dev. | \$97.67 | \$162.61 | \$50.38 | \$55.25 | . |
| August 04 | Sum | \$14,290.50 | \$18,534.00 | \$2,071.10 | \$1,208.33 | |
| | Mean | \$90.45 | \$174.85 | \$25.89 | \$92.95 | |
| | Median | \$60.00 | \$100.00 | \$20.00 | \$26.00 | |
| | Std. Dev. | \$84.42 | \$290.81 | \$24.87 | \$200.44 | |
| September 04 | Sum | \$12,093.00 | \$12,125.00 | \$1,824.00 | \$1,415.30 | \$50.00 |
| | Mean | \$75.11 | \$114.39 | \$24.65 | \$141.53 | \$50.00 |
| | Median | \$50.00 | \$95.00 | \$16.00 | \$37.50 | \$50.00 |
| | Std. Dev. | \$81.08 | \$131.15 | \$24.77 | \$305.45 | . |
| October 04 | Sum | \$8,432.00 | \$9,867.00 | \$1,295.50 | \$243.33 | |
| | Mean | \$69.11 | \$124.90 | \$24.44 | \$40.56 | |
| | Median | \$40.00 | \$60.00 | \$20.00 | \$30.00 | |
| | Std. Dev. | \$114.62 | \$182.35 | \$22.01 | \$37.75 | |
| November 04 | Sum | \$3,201.00 | \$4,137.00 | \$890.00 | \$152.00 | \$83.00 |
| | Mean | \$36.79 | \$84.43 | \$20.70 | \$25.33 | \$41.50 |
| | Median | \$25.00 | \$50.00 | \$15.00 | \$15.00 | \$41.50 |
| | Std. Dev. | \$32.02 | \$74.34 | \$20.57 | \$23.89 | \$51.62 |
| December 04 | Sum | \$3,905.00 | \$4,215.00 | \$1,195.00 | \$258.00 | \$112.00 |
| | Mean | \$61.02 | \$93.67 | \$27.16 | \$64.50 | \$112.00 |
| | Median | \$30.00 | \$50.00 | \$20.00 | \$75.00 | \$112.00 |
| | Std. Dev. | \$93.99 | \$122.26 | \$41.75 | \$44.43 | . |
| January 05 | Sum | \$3,273.00 | \$4,678.00 | \$566.00 | \$200.00 | |
| | Mean | \$76.12 | \$155.93 | \$20.96 | \$200.00 | |
| | Median | \$22.00 | \$50.00 | \$12.00 | \$200.00 | |
| | Std. Dev. | \$167.31 | \$375.79 | \$25.21 | . | |
| February 05 | Sum | \$1,520.00 | \$2,635.00 | \$446.00 | \$221.00 | \$1.00 |
| | Mean | \$40.00 | \$73.19 | \$16.52 | \$44.20 | \$1.00 |
| | Median | \$30.00 | \$30.00 | \$10.00 | \$20.00 | \$1.00 |
| | Std. Dev. | \$35.47 | \$97.40 | \$19.44 | \$46.99 | . |
| March 05 | Sum | \$3,453.00 | \$4,359.00 | \$1,204.00 | \$720.00 | \$100.00 |
| | Mean | \$47.96 | \$87.18 | \$23.61 | \$120.00 | \$100.00 |
| | Median | \$25.00 | \$55.00 | \$10.00 | \$100.00 | \$100.00 |
| | Std. Dev. | \$67.68 | \$123.30 | \$55.88 | \$115.54 | . |
| Total | Sum | \$98,053.50 | \$113,452.00 | \$16,601.60 | \$8,181.96 | \$511.00 |
| | Mean | \$79.72 | \$131.77 | \$24.63 | \$81.01 | \$56.78 |
| | Median | \$50.00 | \$75.00 | \$15.00 | \$50.00 | \$50.00 |
| | Std. Dev. | \$92.88 | \$180.53 | \$32.93 | \$135.35 | \$43.11 |

Table 103 Blewett Falls Lake resident's estimated recreation expenses.

| Survey period | | Estimated Expenses | | | | |
|---------------|------------------|--------------------|-----------------|-----------------|---------------|------------------|
| | | Gas | Food | Bait and Tackle | Use fees | Equipment Rental |
| January 05 | Sum | \$20.00 | \$10.00 | \$10.00 | \$0.00 | \$0.00 |
| | Mean | \$10.00 | \$5.00 | \$5.00 | \$0.00 | \$0.00 |
| | Median | \$10.00 | \$5.00 | \$5.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$14.14 | \$7.07 | \$7.07 | \$0.00 | \$0.00 |
| February 05 | Sum | \$20.00 | \$60.00 | \$5.00 | \$0.00 | \$0.00 |
| | Mean | \$6.67 | \$20.00 | \$1.67 | \$0.00 | \$0.00 |
| | Median | \$0.00 | \$20.00 | \$0.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$11.55 | \$20.00 | \$2.89 | \$0.00 | \$0.00 |
| March 05 | Sum | \$10.00 | \$28.00 | \$8.00 | \$0.00 | \$0.00 |
| | Mean | \$5.00 | \$14.00 | \$4.00 | \$0.00 | \$0.00 |
| | Median | \$5.00 | \$14.00 | \$4.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$7.07 | \$5.66 | \$5.66 | \$0.00 | \$0.00 |
| May 04 | Sum | \$95.00 | \$310.00 | \$40.00 | \$0.00 | \$0.00 |
| | Mean | \$47.50 | \$155.00 | \$20.00 | \$0.00 | \$0.00 |
| | Median | \$47.50 | \$155.00 | \$20.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$3.54 | \$134.35 | \$7.07 | \$0.00 | \$0.00 |
| June 04 | Sum | \$215.00 | \$95.00 | \$5.00 | \$0.00 | \$0.00 |
| | Mean | \$107.50 | \$47.50 | \$2.50 | \$0.00 | \$0.00 |
| | Median | \$107.50 | \$47.50 | \$2.50 | \$0.00 | \$0.00 |
| | Std. Dev. | \$130.81 | \$3.54 | \$3.54 | \$0.00 | \$0.00 |
| July 04 | Sum | \$100.00 | \$25.00 | \$5.00 | \$0.00 | \$0.00 |
| | Mean | \$100.00 | \$25.00 | \$5.00 | \$0.00 | \$0.00 |
| | Median | \$100.00 | \$25.00 | \$5.00 | \$0.00 | \$0.00 |
| | Std. Dev. | . | . | . | . | . |
| August 04 | Sum | \$20.00 | \$45.00 | \$0.00 | \$0.00 | \$0.00 |
| | Mean | \$6.67 | \$15.00 | \$0.00 | \$0.00 | \$0.00 |
| | Median | \$10.00 | \$15.00 | \$0.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$5.77 | \$15.00 | \$0.00 | \$0.00 | \$0.00 |
| September 04 | Sum | \$50.00 | \$125.00 | \$36.00 | \$0.00 | \$0.00 |
| | Mean | \$16.67 | \$41.67 | \$12.00 | \$0.00 | \$0.00 |
| | Median | \$15.00 | \$25.00 | \$10.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$7.64 | \$52.04 | \$7.21 | \$0.00 | \$0.00 |
| October 04 | Sum | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | Mean | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | Median | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | Std. Dev. | . | . | . | . | . |
| Total | Sum | \$530.00 | \$698.00 | \$109.00 | \$0.00 | \$0.00 |
| | Mean | \$27.89 | \$36.74 | \$5.74 | \$0.00 | \$0.00 |
| | Median | \$10.00 | \$20.00 | \$5.00 | \$0.00 | \$0.00 |
| | Std. Dev. | \$48.31 | \$57.68 | \$7.45 | \$0.00 | \$0.00 |

Canoe Portage Summary**Table 104 Lake Tillery Canoe Portage - visitation time of day.**

| Month of Portage | | Time of Day | | | Total |
|------------------|----------------------------------|------------------|------------------|-----------------|--------------|
| | | 7AM - 11:59AM | 12PM - 3:59PM | 4PM - 7:59PM | |
| April | Count | 1 | 0 | 2 | 3 |
| | % within Month of portage | 33.3 | .0 | 66.7 | 100.0 |
| September | Count | 0 | 1 | 2 | 3 |
| | % within Month of portage | .0 | 33.3 | 66.7 | 100.0 |
| October | Count | 0 | 0 | 2 | 2 |
| | % within Month of portage | .0 | .0 | 100.0 | 100.0 |
| November | Count | 1 | 0 | 0 | 1 |
| | % within Month of portage | 100.0 | .0 | .0 | 100.0 |
| Total | Count | 2 | 1 | 6 | 9 |
| | % within Month of portage | 22.2 | 11.1 | 66.7 | 100.0 |

Table 105 Blewett Falls Lake Canoe Portage - visitation time of day.

| Month of portage | | Time of Day | | | | Total |
|------------------|----------------------------------|------------------|------------------|-----------------|---------------|--------------|
| | | 7AM - 11:59AM | 12PM - 3:59PM | 4PM - 7:59PM | 8PM - 12AM | |
| April | Count | 0 | 4 | 7 | 0 | 11 |
| | % within Month of portage | .0 | 36.4 | 63.6 | .0 | 100.0 |
| May | Count | 0 | 1 | 0 | 2 | 3 |
| | % within Month of portage | .0 | 33.3 | .0 | 66.7 | 100.0 |
| June | Count | 1 | 1 | 3 | 0 | 5 |
| | % within Month of portage | 20.0 | 20.0 | 60.0 | .0 | 100.0 |
| July | Count | 1 | 2 | 0 | 0 | 3 |
| | % within Month of portage | 33.3 | 66.7 | .0 | .0 | 100.0 |
| August | Count | 0 | 0 | 1 | 0 | 1 |
| | % within Month of portage | .0 | .0 | 100.0 | .0 | 100.0 |
| Total | Count | 2 | 8 | 11 | 2 | 23 |
| | % within Month of portage | 8.7 | 34.8 | 47.8 | 8.7 | 100.0 |

Table 106 Lake Tillery Canoe Portage - group size by month.

| Group Size | Month of Portage | | | | Total |
|-------------------------------|------------------|-----------|----------|----------|----------|
| | April | September | October | November | |
| Group of 2 | 2 | 1 | 1 | 0 | 4 |
| Group of 3 | 0 | 0 | 1 | 1 | 2 |
| Group of 6 | 0 | 1 | 0 | 0 | 1 |
| Group of 8 | 1 | 0 | 0 | 0 | 1 |
| Group of 10 | 0 | 1 | 0 | 0 | 1 |
| Total Number of Groups | 3 | 3 | 2 | 1 | 9 |

Table 107 Blewett Falls Lake Canoe Portage - group size by month.

| Group Size | Month of Portage | | | | | Total |
|------------------------|------------------|-----|------|------|--------|-------|
| | April | May | June | July | August | |
| Group of 2 | 1 | 2 | 1 | 1 | 1 | 6 |
| Group of 3 | 1 | 0 | 1 | 1 | 0 | 3 |
| Group of 4 | 3 | 0 | 1 | 1 | 0 | 5 |
| Group of 5 | 2 | 1 | 1 | 0 | 0 | 4 |
| Group of 7 | 1 | 0 | 0 | 0 | 0 | 1 |
| Group of 8 | 2 | 0 | 0 | 0 | 0 | 2 |
| Group of 9 | 0 | 0 | 1 | 0 | 0 | 1 |
| Group of 12 | 2 | 0 | 0 | 0 | 0 | 2 |
| Total Number of Groups | 12 | 3 | 5 | 3 | 1 | 24 |

Table 108 Lake Tillery Canoe Portage - put-in and take-out locations.

| Put-in Location | Take-out Location | | Total |
|------------------------|-------------------|---------------|-------|
| | Unknown | Cook's Marina | |
| Did not state location | 8 | 0 | 8 |
| Lilly's Bridge | 0 | 1 | 1 |
| Total | 8 | 1 | 9 |

Table 109 Blewett Falls Lake Canoe Portage - put-in and take-out locations.

| Put-in Location | Take-out Location | | | | | | | Total |
|------------------------------|-------------------|----------------|-------|------------------------------|----------------|---------|---------------------|-------|
| | Unknown | Above the Lake | Anson | At landing downstream of dam | Mountain Creek | Parking | Pee Dee Access Ramp | |
| Did not state | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Above the Lake | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Anson | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| At dam on rock side | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| At landing downstream of dam | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Close to the river | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Mountain Creek | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Pee Dee Access Ramp | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 19 | 1 | 1 | 1 | 3 | 1 | 1 | 27 |

Table 110 Ease of portage by lake.

| Portage Location | Ease of Use | | | | Total |
|-------------------|-------------|------------|-----------|--------------|-----------|
| | Easy | Acceptable | Difficult | Non-response | |
| Lake Tillery | 4 | 1 | 2 | 2 | 9 |
| Blewett Falls Dam | 9 | 9 | 4 | 5 | 27 |
| Did not address | 2 | 1 | 0 | 2 | 5 |
| Total | 15 | 11 | 6 | 9 | 41 |

Table 111 Lake Tillery - ease of portage.

| Ease of Portage | Frequency | Percent |
|------------------------|-----------|--------------|
| Easy | 4 | 44.4 |
| Acceptable | 1 | 11.1 |
| Difficult | 2 | 22.2 |
| Did not address | 2 | 22.2 |
| Total | 9 | 100.0 |

Table 112 Blewett Falls Lake - ease of portage.

| Ease of Portage | Frequency | Percent |
|------------------------|-----------|--------------|
| Easy | 9 | 33.3 |
| Acceptable | 9 | 33.3 |
| Difficult | 4 | 14.8 |
| Did not address | 5 | 18.5 |
| Total | 27 | 100.0 |

Tailrace Fishing Survey Summary**Table 113 Tailrace survey location.**

| Survey Location | Frequency | Percent |
|------------------------|-----------|--------------|
| Lake Tillery | 47 | 51.6 |
| Blewett Falls | 38 | 41.8 |
| Total | 85 | 93.4 |
| Did not address | 6 | 6.6 |
| Total | 91 | 100.0 |

Table 114 Lake Tillery Tailrace - time of day surveyed.

| Time of Day | Frequency | Percent |
|------------------------|-----------|--------------|
| 6:01am-10:00am | 14 | 29.8 |
| 10:01am-2:00pm | 5 | 10.6 |
| 2:01pm-6:00pm | 12 | 25.5 |
| 6:01pm-10:00pm | 5 | 10.6 |
| 10:01pm-2:00am | 2 | 4.3 |
| 2:01am-6:00am | 3 | 6.4 |
| Total | 41 | 87.2 |
| Did not address | 6 | 12.8 |
| Total | 47 | 100.0 |

Table 115 Lake Tillery Tailrace - reported weather conditions.

| Weather Conditions | Frequency | Percent |
|------------------------|-----------|--------------|
| Clear/sunny | 10 | 21.3 |
| Cloudy/overcast | 9 | 19.1 |
| Rainy | 2 | 4.3 |
| Windy | 1 | 2.1 |
| Fair | 3 | 6.4 |
| Good | 2 | 4.3 |
| Hot/hazy | 6 | 12.8 |
| Cool | 2 | 4.3 |
| Perfect/pretty | 3 | 6.4 |
| Bad | 1 | 2.1 |
| Total | 39 | 83.0 |
| Did not address | 8 | 17.0 |
| Total | 47 | 100.0 |

Table 116 Blewett Falls Lake Tailrace - time of day surveyed.

| Time of Day | Frequency | Percent |
|------------------------|-----------|--------------|
| 6:01am-10:00am | 4 | 10.5 |
| 10:01am-2:00pm | 10 | 26.3 |
| 2:01pm-6:00pm | 10 | 26.3 |
| 6:01pm-10:00pm | 9 | 23.7 |
| Total | 33 | 86.8 |
| Did not address | 5 | 13.2 |
| Total | 38 | 100.0 |

Table 117 Blewett Falls Lake Tailrace - reported weather conditions.

| Weather Conditions | Frequency | Percent |
|------------------------|-----------|--------------|
| Clear/sunny | 14 | 36.8 |
| Cloudy/overcast | 9 | 23.7 |
| Windy | 2 | 5.3 |
| Fair | 1 | 2.6 |
| Good | 2 | 5.3 |
| Hot/hazy | 2 | 5.3 |
| Cool | 1 | 2.6 |
| Bad | 1 | 2.6 |
| Total | 32 | 84.2 |
| Did not address | 6 | 15.8 |
| Total | 38 | 100.0 |

Table 118 Lake Tillery Tailrace - gender.

| Gender | Frequency | Percent |
|--------------|-----------|--------------|
| Female | 9 | 19.1 |
| Male | 38 | 80.9 |
| Total | 47 | 100.0 |

Table 119 Lake Tillery Tailrace - age.

| Age | Frequency | Percent |
|------------------------|-----------|--------------|
| <16 | 2 | 4.3 |
| 17-21 | 8 | 17.0 |
| 22-30 | 9 | 19.1 |
| 31-40 | 8 | 17.0 |
| 41-50 | 9 | 19.1 |
| 51-60 | 3 | 6.4 |
| >60 | 7 | 14.9 |
| Total | 46 | 97.9 |
| Did not address | 1 | 2.1 |
| Total | 47 | 100.0 |

Table 120 Lake Tillery Tailrace - group size.

| Group Size | Frequency | Percent |
|------------------------|-----------|--------------|
| 1 | 16 | 34.0 |
| 2 | 13 | 27.7 |
| 3 | 4 | 8.5 |
| 4 | 3 | 6.4 |
| 5 | 3 | 6.4 |
| 8 | 1 | 2.1 |
| 12 | 1 | 2.1 |
| 27 | 1 | 2.1 |
| Total | 42 | 89.4 |
| Did not address | 5 | 10.6 |
| Total | 47 | 100.0 |

Table 121 Blewett Falls Lake Tailrace - gender.

| Gender | Frequency | Percent |
|------------------------|-----------|--------------|
| Female | 3 | 7.9 |
| Male | 33 | 86.8 |
| Total | 36 | 94.7 |
| Did not address | 2 | 5.3 |
| Total | 38 | 100.0 |

Table 122 Blewett Falls Lake Tailrace - age.

| Age | Frequency | Percent |
|------------------------|-----------|--------------|
| <16 | 1 | 2.6 |
| 17-21 | 4 | 10.5 |
| 22-30 | 10 | 26.3 |
| 31-40 | 7 | 18.4 |
| 41-50 | 6 | 15.8 |
| 51-60 | 2 | 5.3 |
| >60 | 4 | 10.5 |
| Total | 34 | 89.5 |
| Did not address | 4 | 10.5 |
| Total | 38 | 100.0 |

Table 123 Blewett Falls Lake Tailrace - group size.

| Group Size | Frequency | Percent |
|------------------------|-----------|--------------|
| 1 | 7 | 18.4 |
| 2 | 8 | 21.1 |
| 3 | 8 | 21.1 |
| 4 | 3 | 7.9 |
| 5 | 2 | 5.3 |
| 6 | 1 | 2.6 |
| 9 | 1 | 2.6 |
| 16 | 2 | 5.3 |
| Total | 32 | 84.2 |
| Did not address | 6 | 15.8 |
| Total | 38 | 100.0 |

Table 124 Lake Tillery Tailrace - number of days fished per month.

| Number of Days Fished | Frequency | Percent |
|-----------------------|-----------|--------------|
| 1-2 | 15 | 31.9 |
| 3-4 | 7 | 14.9 |
| 5-10 | 11 | 23.4 |
| >10 | 14 | 29.8 |
| Total | 47 | 100.0 |

Table 125 Lake Tillery Tailrace - time of day fished.

| Time of Day Fished at Tailwater | Frequency | Percent |
|---------------------------------|-----------|--------------|
| Early morning | 29 | 61.7 |
| Late morning | 2 | 4.3 |
| Midday | 3 | 6.4 |
| Early afternoon | 1 | 2.1 |
| Late afternoon | 6 | 12.8 |
| Evening | 4 | 8.5 |
| Total | 45 | 95.7 |
| Did not address | 2 | 4.3 |
| Total | 47 | 100.0 |

Table 126 Lake Tillery Tailrace fishing - typical length of time.

| Typical Length of Time Fishing | Frequency | Percent |
|--------------------------------|-----------|--------------|
| <2 hours | 6 | 12.8 |
| 2-4 hours | 23 | 48.9 |
| 5-6 hours | 7 | 14.9 |
| 7-8 hours | 10 | 21.3 |
| Total | 46 | 97.9 |
| Did not address | 1 | 2.1 |
| Total | 47 | 100.0 |

Table 127 Blewett Falls Lake Tailrace - number of days fished per month.

| Number of Days Fished | Frequency | Percent |
|------------------------|-----------|--------------|
| 1-2 | 7 | 18.4 |
| 3-4 | 8 | 21.1 |
| 5-10 | 8 | 21.1 |
| >10 | 13 | 34.2 |
| Total | 36 | 94.7 |
| Did not address | 2 | 5.3 |
| Total | 38 | 100.0 |

Table 128 Blewett Falls Lake Tailrace - time of day fished.

| Time of Day Fished at Tailwater | Frequency | Percent |
|---------------------------------|-----------|--------------|
| Early morning | 10 | 26.3 |
| Late morning | 7 | 18.4 |
| Midday | 2 | 5.3 |
| Early afternoon | 2 | 5.3 |
| Late afternoon | 10 | 26.3 |
| Evening | 4 | 10.5 |
| Total | 35 | 92.1 |
| Did not address | 3 | 7.9 |
| Total | 38 | 100.0 |

Table 129 Blewett Falls Lake Tailrace - typical length of time.

| Typical Length of Time Fishing | Frequency | Percent |
|--------------------------------|-----------|--------------|
| <2 hours | 1 | 2.6 |
| 2-4 hours | 14 | 36.8 |
| 5-6 hours | 10 | 26.3 |
| 7-8 hours | 11 | 28.9 |
| Total | 36 | 94.7 |
| Did not address | 2 | 5.3 |
| Total | 38 | 100.0 |

Table 130 Lake Tillery Tailrace - angler preference.

| Fish Preference | Responses | |
|------------------|-----------|--------------|
| | N | Percent |
| Bass | 3 | 5.0 |
| Bream | 3 | 5.0 |
| Carp | 1 | 1.7 |
| Catfish | 13 | 21.7 |
| Crappie | 1 | 1.7 |
| Gar | 1 | 1.7 |
| Large mouth bass | 1 | 1.7 |
| Stripers | 20 | 33.3 |
| Walkie-more | 1 | 1.7 |
| White perch | 2 | 3.3 |
| White bass | 6 | 10.0 |
| Pan fish | 1 | 1.7 |
| Anything | 7 | 11.7 |
| Total | 60 | 100.0 |

Table 131 Lake Tillery Tailrace - fish catch.

| Did you catch fish today? | Frequency | Percent |
|---------------------------|-----------|--------------|
| Yes | 23 | 48.9 |
| No | 23 | 48.9 |
| Total | 46 | 97.9 |
| Did not address | 1 | 2.1 |
| Total | 47 | 100.0 |

Table 132 Lake Tillery Tailrace - type, number, and size of fish caught.

| Type of Fish | Number of Fish Caught | Approximate size of the fish? |
|------------------|-----------------------|-------------------------------|
| Bream | 1 | 6" |
| Carp | 3 | 2 common, 1 big buff |
| Catfish | 1 | 5" |
| | 10 | |
| | 2 | small channel |
| | 6 | |
| Crappie | 84 | |
| | 134 | |
| Gar | 3 | 16in |
| | 2 | |
| | 1 | 3ft |
| Large mouth bass | 4 | 14-18in |
| Stripers | 19 | 24in and bigger |
| | 2 | 18-24" |
| | 2 | 18-22" |
| | 3 | 20", 24" & 26" |
| | 3 | 6-10lb |
| | 3 | 6-10lbs |
| | 3 | 22-26" |
| | 8 | 12lb, 23-26in |
| Walkie-more | 80 | 6-10 |
| White perch | 3 | 7-9in |

Table 133 Blewett Falls Lake Tailrace - angler preference.

| Fish Preference | Responses | |
|------------------|-----------|--------------|
| | N | Percent |
| Bass | 5 | 10.9 |
| Bream | 2 | 4.3 |
| Carp | 2 | 4.3 |
| Catfish | 18 | 39.1 |
| Crappie | 1 | 2.2 |
| Large mouth bass | 1 | 2.2 |
| Stripers | 8 | 17.4 |
| White perch | 1 | 2.2 |
| White bass | 1 | 2.2 |
| Anything | 6 | 13.0 |
| None | 1 | 2.2 |
| Total | 46 | 100.0 |

Table 134 Blewett Falls Lake Tailrace - fish catch.

| Did you catch fish today? | Frequency | Percent |
|---------------------------|-----------|--------------|
| Yes | 17 | 44.7 |
| No | 14 | 36.8 |
| Total | 31 | 81.6 |
| Did not address | 7 | 18.4 |
| Total | 38 | 100.0 |

Table 135 Blewett Falls Lake Tailrace - type, number, and size of fish caught.

| Type of Fish | Number of Fish Caught | Approximate size of the fish? |
|------------------|-----------------------|-------------------------------|
| Bass | 2 | 14" |
| Bluegill | 5 | 6-8" |
| Bream | 14 | 4oz |
| Carp | 1 | 18-20 lbs, 23 in |
| Catfish | 20 | over 20lbs |
| | 1 | 8lb |
| | 1 | 19" |
| | 18 | |
| | 2 | |
| | 10 | |
| | 2 | |
| Crappie | 6 | |
| | 12 | 2oz |
| | 2 | |
| Gar | 2 | |
| Large mouth bass | 2 | 2-3 lbs, 15-16 in |
| | 5 | over 14" |
| Stripers | 1 | |
| | 2 | 23 & 19" |
| | 1 | |
| White bass | 7 | 1-1.5lbs |

Facility Carrying Capacity Summary**Table 136 Lake Tillery facility capacity.**

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|----------------------------|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| <i>Norwood Access Area</i> | Jan 05 | WD | 90 | 50 | 3 | 3 | 9.3 |
| | | WE | 90 | 50 | 7 | 6 | 19.8 |
| | Feb 05 | WD | 90 | 50 | 3 | 3 | 9.3 |
| | | WE | 90 | 50 | 8 | 7 | 22.9 |
| | Mar 05 | WD | 90 | 50 | 7 | 6 | 19.8 |
| | | WE | 90 | 50 | 12 | 11 | 35.3 |
| | Apr 04 | WD | 90 | 50 | 11 | 10 | 32.2 |
| | | WE | 90 | 50 | 48 | 45 | 143.3 |
| | May 04 | WD | 90 | 50 | 10 | 9 | 29.1 |
| | | WE | 90 | 50 | 14 | 13 | 41.6 |
| | | Hol | 90 | 50 | 17 | 15 | 48.9 |
| | Jun 04 | WD | 90 | 50 | 11 | 8 | 28.2 |
| | | WE | 90 | 50 | 39 | 35 | 113.3 |
| | Jul 04 | WD | 90 | 50 | 11 | 11 | 34.2 |
| | | WE | 90 | 50 | 24 | 18 | 62.7 |
| | | Hol | 90 | 50 | 52 | 36 | 129.8 |
| | Aug 04 | WD | 90 | 50 | 8 | 6 | 20.9 |
| | | WE | 90 | 50 | 21 | 18 | 59.3 |
| | Sep 04 | WD | 90 | 50 | 7 | 6 | 19.8 |
| | | WE | 90 | 50 | 13 | 11 | 36.4 |
| | | Hol | 90 | 50 | 14 | 14 | 43.6 |
| | Oct 04 | WD | 90 | 50 | 9 | 9 | 28.0 |
| | | WE | 90 | 50 | 14 | 13 | 41.6 |
| | Nov 04 | WD | 90 | 50 | 6 | 6 | 18.7 |
| WE | | 90 | 50 | 11 | 10 | 32.2 | |
| Dec 04 | WD | 90 | 50 | 5 | 4 | 13.6 | |
| | WE | 90 | 50 | 4 | 4 | 12.4 | |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|----------------------------------|--------------|--------------------|-------------------------|---|----------------------|--|--|
| <i>Stony Mountain Access</i> | Jan 05 | WD | 150 | 60 | 5 | 4 | 10.0 |
| | | WE | 150 | 60 | 3 | 2 | 5.3 |
| | Feb 05 | WD | 150 | 60 | 0 | 0 | 0.0 |
| | | WE | 150 | 60 | 4 | 3 | 7.7 |
| | Mar 05 | WD | 150 | 60 | 1 | 1 | 2.3 |
| | | WE | 150 | 60 | 8 | 6 | 15.3 |
| | Apr 04 | WD | 150 | 60 | 8 | 3 | 10.3 |
| | | WE | 150 | 60 | 52 | 45 | 109.7 |
| | May 04 | WD | 150 | 60 | 5 | 3 | 8.3 |
| | | WE | 150 | 60 | 5 | 4 | 10.0 |
| | | Hol | 150 | 60 | 10 | 7 | 18.3 |
| | Jun 04 | WD | 150 | 60 | 7 | 5 | 13.0 |
| | | WE | 150 | 60 | 17 | 13 | 33.0 |
| | Jul 04 | WD | 150 | 60 | 7 | 3 | 9.7 |
| | | WE | 150 | 60 | 38 | 35 | 83.7 |
| | | Hol | 150 | 60 | 26 | 14 | 40.7 |
| | Aug 04 | WD | 150 | 60 | 3 | 3 | 7.0 |
| | | WE | 150 | 60 | 13 | 11 | 27.0 |
| | | Hol | 150 | 60 | 7 | 4 | 11.3 |
| | Sep 04 | WD | 150 | 60 | 2 | 2 | 4.7 |
| | | WE | 150 | 60 | 6 | 5 | 12.3 |
| | | Hol | 150 | 60 | 7 | 4 | 11.3 |
| | Oct 04 | WD | 150 | 60 | 3 | 2 | 5.3 |
| | | WE | 150 | 60 | 6 | 3 | 9.0 |
| Nov 04 | WD | 150 | 60 | 2 | 2 | 4.7 | |
| | WE | 150 | 60 | 2 | 2 | 4.7 | |
| Dec 04 | WD | 150 | 60 | 1 | 1 | 2.3 | |
| | WE | 150 | 60 | 1 | 1 | 2.3 | |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------------------------------|--------------|--------------------|-------------------------|---|----------------------|--|--|
| <i>Swift Island Access</i> | Jan 05 | WD | 600 | 240 | 2 | 2 | 1.2 |
| | | WE | 600 | 240 | 6 | 5 | 3.1 |
| | Feb 05 | WD | 600 | 240 | 4 | 4 | 2.3 |
| | | WE | 600 | 240 | 7 | 7 | 4.1 |
| | Mar 05 | WD | 600 | 240 | 6 | 6 | 3.5 |
| | | WE | 600 | 240 | 31 | 26 | 16.0 |
| | Apr 04 | WD | 600 | 240 | 11 | 10 | 6.0 |
| | | WE | 600 | 240 | 122 | 107 | 64.9 |
| | May 04 | WD | 600 | 240 | 45 | 39 | 23.8 |
| | | WE | 600 | 240 | 58 | 50 | 30.5 |
| | | Hol | 600 | 240 | 33 | 26 | 16.3 |
| | Jun 04 | WD | 600 | 240 | 20 | 16 | 10.0 |
| | | WE | 600 | 240 | 62 | 56 | 33.7 |
| | Jul 04 | WD | 600 | 240 | 27 | 24 | 14.5 |
| | | WE | 600 | 240 | 68 | 63 | 37.6 |
| | | Hol | 600 | 240 | 100 | 65 | 43.8 |
| | Aug 04 | WD | 600 | 240 | 8 | 7 | 4.3 |
| | | WE | 600 | 240 | 63 | 46 | 29.7 |
| | Sep 04 | WD | 600 | 240 | 5 | 5 | 2.9 |
| | | WE | 600 | 240 | 30 | 24 | 15.0 |
| | | Hol | 600 | 240 | 16 | 16 | 9.3 |
| | Oct 04 | WD | 600 | 240 | 17 | 13 | 8.3 |
| | | WE | 600 | 240 | 43 | 41 | 24.3 |
| | Nov 04 | WD | 600 | 240 | 7 | 6 | 3.7 |
| WE | | 600 | 240 | 17 | 15 | 9.1 | |
| Dec 04 | WD | 600 | 240 | 8 | 8 | 4.7 | |
| | WE | 600 | 240 | 11 | 10 | 6.0 | |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|---------------------------|--------------|--------------------|-------------------------|---|----------------------|--|--|
| <i>Lilly's Access</i> | Jan 05 | WD | 200 | 80 | 6 | 6 | 10.5 |
| | | WE | 200 | 80 | 3 | 2 | 4.0 |
| | Feb 05 | WD | 200 | 80 | 7 | 6 | 11.0 |
| | | WE | 200 | 80 | 6 | 5 | 9.3 |
| | Mar 05 | WD | 200 | 80 | 5 | 3 | 6.3 |
| | | WE | 200 | 80 | 13 | 11 | 20.3 |
| | Apr 04 | WD | 200 | 80 | 6 | 6 | 10.5 |
| | | WE | 200 | 80 | 31 | 29 | 51.8 |
| | May 04 | WD | 200 | 80 | 10 | 8 | 15.0 |
| | | WE | 200 | 80 | 18 | 16 | 29.0 |
| | | Hol | 200 | 80 | 10 | 9 | 16.3 |
| | Jun 04 | WD | 200 | 80 | 9 | 5 | 10.8 |
| | | WE | 200 | 80 | 30 | 24 | 45.0 |
| | Jul 04 | WD | 200 | 80 | 8 | 6 | 11.5 |
| | | WE | 200 | 80 | 17 | 15 | 27.3 |
| | | Hol | 200 | 80 | 51 | 46 | 83.0 |
| | Aug 04 | WD | 200 | 80 | 5 | 4 | 7.5 |
| | | WE | 200 | 80 | 12 | 8 | 16.0 |
| | Sep 04 | WD | 200 | 80 | 5 | 4 | 7.5 |
| | | WE | 200 | 80 | 8 | 7 | 12.8 |
| | | Hol | 200 | 80 | 9 | 7 | 13.3 |
| | Oct 04 | WD | 200 | 80 | 5 | 5 | 8.8 |
| | | WE | 200 | 80 | 11 | 8 | 15.5 |
| | Nov 04 | WD | 200 | 80 | 6 | 4 | 8.0 |
| WE | | 200 | 80 | 8 | 8 | 14.0 | |
| Dec 04 | WD | 200 | 80 | 4 | 4 | 7.0 | |
| | WE | 200 | 80 | 5 | 4 | 7.5 | |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|---|--------|-------------|------------------|--|---------------|-------------------------------------|-----------------------------------|
| <i>Informal Access SR 1740 & 1745</i> | Jan 05 | WD | 30 | 10 | 1 | 1 | 13.3 |
| | | WE | 30 | 10 | 0 | 0 | 0.0 |
| | Feb 05 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | | WE | 30 | 10 | 1 | 0 | 3.3 |
| | Mar 05 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | | WE | 30 | 10 | 2 | 0 | 6.7 |
| | Apr 04 | WD | 30 | 10 | 4 | 0 | 13.3 |
| | | WE | 30 | 10 | 10 | 2 | 53.3 |
| | May 04 | WD | 30 | 10 | 2 | 0 | 6.7 |
| | | WE | 30 | 10 | 2 | 0 | 6.7 |
| | | Hol | 30 | 10 | 6 | 1 | 30.0 |
| | Jun 04 | WD | 30 | 10 | 2 | 1 | 16.7 |
| | | WE | 30 | 10 | 5 | 2 | 36.7 |
| | Jul 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | | WE | 30 | 10 | 1 | 0 | 3.3 |
| | | Hol | 30 | 10 | 3 | 1 | 20.0 |
| | Aug 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | | WE | 30 | 10 | 2 | 1 | 16.7 |
| | Sep 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | | WE | 30 | 10 | 1 | 0 | 3.3 |
| | | Hol | 30 | 10 | 2 | 0 | 6.7 |
| | Oct 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | | WE | 30 | 10 | 7 | 1 | 33.3 |
| | Nov 04 | WD | 30 | 10 | 2 | 0 | 6.7 |
| | | WE | 30 | 10 | 2 | 0 | 6.7 |
| | Dec 04 | WD | 30 | 10 | 0 | 0 | 0.0 |
| | | WE | 30 | 10 | 0 | 0 | 0.0 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|----------------------------|--------|-------------|------------------|--|---------------|-------------------------------------|-----------------------------------|
| <i>Tillery Portage</i> | Jan 05 | WD | 20 | 10 | 0 | 0 | 0.0 |
| | | WE | 20 | 10 | 0 | 0 | 0.0 |
| | Feb 05 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | | WE | 20 | 10 | 0 | 0 | 0.0 |
| | Mar 05 | WD | 20 | 10 | 0 | 0 | 0.0 |
| | | WE | 20 | 10 | 1 | 0 | 5.0 |
| | Apr 04 | WD | 20 | 10 | 2 | 0 | 10.0 |
| | | WE | 20 | 10 | 4 | 0 | 20.0 |
| | May 04 | WD | 20 | 10 | 2 | 0 | 10.0 |
| | | WE | 20 | 10 | 6 | 0 | 30.0 |
| | | Hol | 20 | 10 | 13 | 0 | 65.0 |
| | Jun 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | | WE | 20 | 10 | 3 | 0 | 15.0 |
| | Jul 04 | WD | 20 | 10 | 0 | 0 | 0.0 |
| | | WE | 20 | 10 | 2 | 0 | 10.0 |
| | | Hol | 20 | 10 | 7 | 0 | 35.0 |
| | Aug 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | | WE | 20 | 10 | 3 | 0 | 15.0 |
| | Sep 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | | WE | 20 | 10 | 1 | 0 | 5.0 |
| | | Hol | 20 | 10 | 3 | 0 | 15.0 |
| | Oct 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | | WE | 20 | 10 | 3 | 0 | 15.0 |
| | Nov 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| WE | | 20 | 10 | 0 | 0 | 0.0 | |
| Dec 04 | WD | 20 | 10 | 1 | 0 | 5.0 | |
| | WE | 20 | 10 | 1 | 0 | 5.0 | |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--|--------|-------------|------------------|--|---------------|-------------------------------------|-----------------------------------|
| <i>Informal Tailwater Access Area Public</i> | Jan 05 | WD | 45 | 12 | 2 | 1 | 12.8 |
| | | WE | 45 | 12 | 1 | 1 | 10.6 |
| | Feb 05 | WD | 45 | 12 | 3 | 1 | 15.0 |
| | | WE | 45 | 12 | 3 | 1 | 15.0 |
| | Mar 05 | WD | 45 | 12 | 2 | 1 | 12.8 |
| | | WE | 45 | 12 | 5 | 4 | 44.4 |
| | Apr 04 | WD | 45 | 12 | 7 | 1 | 23.9 |
| | | WE | 45 | 12 | 8 | 2 | 34.4 |
| | May 04 | WD | 45 | 12 | 4 | 2 | 25.6 |
| | | WE | 45 | 12 | 8 | 3 | 42.8 |
| | | Hol | 45 | 12 | 7 | 1 | 23.9 |
| | Jun 04 | WD | 45 | 12 | 7 | 2 | 32.2 |
| | | WE | 45 | 12 | 6 | 4 | 46.7 |
| | Jul 04 | WD | 45 | 12 | 4 | 3 | 33.9 |
| | | WE | 45 | 12 | 6 | 2 | 30.0 |
| | | Hol | 45 | 12 | 9 | 1 | 28.3 |
| | Aug 04 | WD | 45 | 12 | 5 | 4 | 44.4 |
| | | WE | 45 | 12 | 6 | 2 | 30.0 |
| | Sep 04 | WD | 45 | 12 | 2 | 0 | 4.4 |
| | | WE | 45 | 12 | 7 | 2 | 32.2 |
| | | Hol | 45 | 12 | 5 | 0 | 11.1 |
| | Oct 04 | WD | 45 | 12 | 11 | 12 | 124.4 |
| | | WE | 45 | 12 | 10 | 2 | 38.9 |
| | Nov 04 | WD | 45 | 12 | 6 | 2 | 30.0 |
| | | WE | 45 | 12 | 7 | 3 | 40.6 |
| | Dec 04 | WD | 45 | 12 | 3 | 2 | 23.3 |
| | | WE | 45 | 12 | 4 | 1 | 17.2 |

Table 137 Blewett Falls Lake facility capacity - access areas.

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|-----------------------------|--------|-------------|------------------|-------------------------------------|----------|----------------------------|-----------------------------|
| <i>U.S. Highway 74 Site</i> | Jan 05 | WD | 125 | 50 | 2 | 1 | 3.6 |
| | | WE | 125 | 50 | 1 | 1 | 2.8 |
| | Feb 05 | WD | 125 | 50 | 1 | 1 | 2.8 |
| | | WE | 125 | 50 | 2 | 2 | 5.6 |
| | Mar 05 | WD | 125 | 50 | 3 | 3 | 8.4 |
| | | WE | 125 | 50 | 3 | 3 | 8.4 |
| | Apr 04 | WD | 125 | 50 | 3 | 1 | 4.4 |
| | | WE | 125 | 50 | 9 | 4 | 15.2 |
| | May 04 | WD | 125 | 50 | 3 | 3 | 8.4 |
| | | WE | 125 | 50 | 4 | 2 | 7.2 |
| | | HOL | 125 | 50 | 6 | 2 | 8.8 |
| | Jun 04 | WD | 125 | 50 | 2 | 2 | 5.6 |
| | | WE | 125 | 50 | 8 | 3 | 12.4 |
| | | HOL | 125 | 50 | 5 | 2 | 8.0 |
| | Jul 04 | WD | 125 | 50 | 2 | 2 | 5.6 |
| | | WE | 125 | 50 | 4 | 2 | 7.2 |
| | | HOL | 125 | 50 | 5 | 2 | 8.0 |
| | Aug 04 | WD | 125 | 50 | 2 | 2 | 5.6 |
| | | WE | 125 | 50 | 5 | 5 | 14.0 |
| | Sep 04 | WD | 125 | 50 | 1 | 1 | 2.8 |
| | | WE | 125 | 50 | 2 | 2 | 5.6 |
| | | HOL | 125 | 50 | 6 | 2 | 8.8 |
| | Oct 04 | WD | 125 | 50 | 0 | 0 | 0.0 |
| | | WE | 125 | 50 | 9 | 2 | 11.2 |
| | Nov 04 | WD | 125 | 50 | 4 | 1 | 5.2 |
| | | WE | 125 | 50 | 5 | 2 | 8.0 |
| | Dec 04 | WD | 125 | 50 | 4 | 1 | 5.2 |
| | | WE | 125 | 50 | 1 | 1 | 2.8 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|---------------------------------|--------|-------------|------------------|-------------------------------------|----------|----------------------------|-----------------------------|
| <i>Informal Tailrace Access</i> | Jan 05 | WD | 50 | 20 | 0 | 0 | 0.0 |
| | | WE | 50 | 20 | 2 | 2 | 14.0 |
| | Feb 05 | WD | 50 | 20 | 1 | 0 | 2.0 |
| | | WE | 50 | 20 | 1 | 1 | 7.0 |
| | Mar 05 | WD | 50 | 20 | 5 | 2 | 20.0 |
| | | WE | 50 | 20 | 6 | 4 | 32.0 |
| | Apr 04 | WD | 50 | 20 | 15 | 2 | 40.0 |
| | | WE | 50 | 20 | 16 | 4 | 52.0 |
| | May 04 | WD | 50 | 20 | 11 | 6 | 52.0 |
| | | WE | 50 | 20 | 8 | 2 | 26.0 |
| | | HOL | 50 | 20 | 8 | 2 | 26.0 |
| | Jun 04 | WD | 50 | 20 | 7 | 4 | 34.0 |
| | | WE | 50 | 20 | 9 | 4 | 38.0 |
| | Jul 04 | WD | 50 | 20 | 5 | 2 | 20.0 |
| | | WE | 50 | 20 | 4 | 2 | 18.0 |
| | | HOL | 50 | 20 | 6 | 1 | 17.0 |
| | Aug 04 | WD | 50 | 20 | 4 | 2 | 18.0 |
| | | WE | 50 | 20 | 3 | 1 | 11.0 |
| | Sep 04 | WD | 50 | 20 | 2 | 1 | 9.0 |
| | | WE | 50 | 20 | 7 | 3 | 29.0 |
| | | HOL | 50 | 20 | 2 | 0 | 4.0 |
| | Oct 04 | WD | 50 | 20 | 6 | 2 | 22.0 |
| | | WE | 50 | 20 | 5 | 2 | 20.0 |
| | Nov 04 | WD | 50 | 20 | 1 | 0 | 2.0 |
| | | WE | 50 | 20 | 1 | 1 | 7.0 |
| | Dec 04 | WD | 50 | 20 | 2 | 2 | 14.0 |
| | | WE | 50 | 20 | 1 | 1 | 7.0 |

| Location | | | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|------------------------------------|--|--|--------|-------------|------------------|----------------------------------|----------|-------------------------|-----------------------------|
| <i>Blewett Falls Canoe Portage</i> | | | Jan 05 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | | | | WE | 20 | 8 | 0 | 0 | 0.0 |
| | | | Feb 05 | WD | 20 | 8 | 0 | 0 | 0.0 |
| | | | | WE | 20 | 8 | 1 | 0 | 5.0 |
| | | | Mar 05 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | | | | WE | 20 | 8 | 1 | 0 | 5.0 |
| | | | Apr 04 | WD | 20 | 8 | 8 | 9 | 152.5 |
| | | | | WE | 20 | 8 | 10 | 1 | 62.5 |
| | | | May 04 | WD | 20 | 8 | 3 | 0 | 15.0 |
| | | | | WE | 20 | 8 | 6 | 0 | 30.0 |
| | | | Jun 04 | HOL | 20 | 8 | 20 | 1 | 112.5 |
| | | | | WD | 20 | 8 | 4 | 0 | 20.0 |
| | | | | WE | 20 | 8 | 14 | 0 | 70.0 |
| | | | Jul 04 | WD | 20 | 8 | 4 | 0 | 20.0 |
| | | | | WE | 20 | 8 | 1 | 0 | 5.0 |
| | | | | HOL | 20 | 8 | 18 | 0 | 90.0 |
| | | | Aug 04 | WD | 20 | 8 | 2 | 0 | 10.0 |
| | | | | WE | 20 | 8 | 10 | 1 | 62.5 |
| | | | Sep 04 | WD | 20 | 8 | 2 | 0 | 10.0 |
| | | | | WE | 20 | 8 | 5 | 0 | 25.0 |
| | | | | HOL | 20 | 8 | 6 | 0 | 30.0 |
| | | | Oct 04 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | | | | WE | 20 | 8 | 3 | 0 | 15.0 |
| | | | Nov 04 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | | | | WE | 20 | 8 | 2 | 0 | 10.0 |
| | | | Dec 04 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | | | | WE | 20 | 8 | 1 | 0 | 5.0 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|-----------------------------------|--------|-------------|------------------|-------------------------------------|----------|----------------------------|-----------------------------|
| <i>Grassy Islands Access Area</i> | Jan 05 | WD | 30 | 12 | 2 | 2 | 23.3 |
| | | WE | 30 | 12 | 2 | 1 | 15.0 |
| | Feb 05 | WD | 30 | 12 | 1 | 1 | 11.7 |
| | | WE | 30 | 12 | 2 | 1 | 15.0 |
| | Mar 05 | WD | 30 | 12 | 3 | 2 | 26.7 |
| | | WE | 30 | 12 | 3 | 3 | 35.0 |
| | Apr 04 | WD | 30 | 12 | 5 | 4 | 50.0 |
| | | WE | 30 | 12 | 16 | 12 | 153.3 |
| | May 04 | WD | 30 | 12 | 8 | 7 | 85.0 |
| | | WE | 30 | 12 | 5 | 4 | 50.0 |
| | | HOL | 30 | 12 | 14 | 13 | 155.0 |
| | Jun 04 | WD | 30 | 12 | 4 | 3 | 38.3 |
| | | WE | 30 | 12 | 4 | 4 | 46.7 |
| | Jul 04 | WD | 30 | 12 | 10 | 10 | 116.7 |
| | | WE | 30 | 12 | 5 | 5 | 58.3 |
| | | HOL | 30 | 12 | 6 | 5 | 61.7 |
| | Aug 04 | WD | 30 | 12 | 3 | 3 | 35.0 |
| | | WE | 30 | 12 | 4 | 3 | 38.3 |
| | Sep 04 | WD | 30 | 12 | 3 | 2 | 26.7 |
| | | WE | 30 | 12 | 3 | 3 | 35.0 |
| | | HOL | 30 | 12 | 2 | 2 | 23.3 |
| | Oct 04 | WD | 30 | 12 | 2 | 2 | 23.3 |
| | | WE | 30 | 12 | 6 | 2 | 36.7 |
| | Nov 04 | WD | 30 | 12 | 3 | 2 | 26.7 |
| | | WE | 30 | 12 | 7 | 4 | 56.7 |
| | Dec 04 | WD | 30 | 12 | 3 | 1 | 18.3 |
| | | WE | 30 | 12 | 2 | 1 | 15.0 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|--------------------|--------|-------------|------------------|-------------------------------------|----------|----------------------------|-----------------------------|
| <i>Highway 109</i> | Jan 05 | WD | 57 | 25 | 1 | 1 | 5.8 |
| | | WE | 57 | 25 | 2 | 2 | 11.5 |
| | Feb 05 | WD | 57 | 25 | 0 | 0 | 0.0 |
| | | WE | 57 | 25 | 0 | 0 | 0.0 |
| | Mar 05 | WD | 57 | 25 | 2 | 2 | 11.5 |
| | | WE | 57 | 25 | 1 | 1 | 5.8 |
| | Apr 04 | WD | 57 | 25 | 3 | 2 | 13.3 |
| | | WE | 57 | 25 | 5 | 3 | 20.8 |
| | May 04 | WD | 57 | 25 | 3 | 3 | 17.3 |
| | | WE | 57 | 25 | 1 | 0 | 1.8 |
| | | HOL | 57 | 25 | 1 | 0 | 1.8 |
| | Jun 04 | WD | 57 | 25 | 5 | 4 | 24.8 |
| | | WE | 57 | 25 | 5 | 5 | 28.8 |
| | Jul 04 | WD | 57 | 25 | 4 | 3 | 19.0 |
| | | WE | 57 | 25 | 9 | 6 | 39.8 |
| | | HOL | 57 | 25 | 2 | 2 | 11.5 |
| | Aug 04 | WD | 57 | 25 | 1 | 0 | 1.8 |
| | | WE | 57 | 25 | 3 | 2 | 13.3 |
| | Sep 04 | WD | 57 | 25 | 1 | 1 | 5.8 |
| | | WE | 57 | 25 | 3 | 3 | 17.3 |
| | | HOL | 57 | 25 | 2 | 0 | 3.5 |
| | Oct 04 | WD | 57 | 25 | 1 | 0 | 1.8 |
| | | WE | 57 | 25 | 2 | 1 | 7.5 |
| | Nov 04 | WD | 57 | 25 | 0 | 0 | 0.0 |
| | | WE | 57 | 25 | 1 | 0 | 1.8 |
| | Dec 04 | WD | 57 | 25 | 3 | 3 | 17.3 |
| | | WE | 57 | 25 | 2 | 1 | 7.5 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|-------------------------|--------|-------------|------------------|----------------------------------|----------|-------------------------|-----------------------------|
| <i>Informal SR 1744</i> | Jan 05 | WD | 25 | 10 | 0 | 0 | 0.0 |
| | | WE | 25 | 10 | 0 | 0 | 0.0 |
| | Feb 05 | WD | 25 | 10 | 1 | 0 | 4.0 |
| | | WE | 25 | 10 | 2 | 2 | 28.0 |
| | Mar 05 | WD | 25 | 10 | 1 | 0 | 4.0 |
| | | WE | 25 | 10 | 1 | 1 | 14.0 |
| | Apr 04 | WD | 25 | 10 | 15 | 5 | 110.0 |
| | | WE | 25 | 10 | 16 | 2 | 84.0 |
| | May 04 | WD | 25 | 10 | 7 | 3 | 58.0 |
| | | WE | 25 | 10 | 17 | 5 | 118.0 |
| | | HOL | 25 | 10 | 11 | 1 | 54.0 |
| | Jun 04 | WD | 25 | 10 | 5 | 0 | 20.0 |
| | | WE | 25 | 10 | 15 | 2 | 80.0 |
| | Jul 04 | WD | 25 | 10 | 14 | 1 | 66.0 |
| | | WE | 25 | 10 | 10 | 3 | 70.0 |
| | | HOL | 25 | 10 | 15 | 2 | 80.0 |
| | Aug 04 | WD | 25 | 10 | 1 | 1 | 14.0 |
| | | WE | 25 | 10 | 6 | 0 | 24.0 |
| | Sep 04 | WD | 25 | 10 | 1 | 0 | 4.0 |
| | | WE | 25 | 10 | 2 | 0 | 8.0 |
| | | HOL | 25 | 10 | 3 | 1 | 22.0 |
| | Oct 04 | WD | 25 | 10 | 1 | 1 | 14.0 |
| | | WE | 25 | 10 | 3 | 0 | 12.0 |
| | Nov 04 | WD | 25 | 10 | 0 | 0 | 0.0 |
| | | WE | 25 | 10 | 2 | 1 | 18.0 |
| | Dec 04 | WD | 25 | 10 | 0 | 0 | 0.0 |
| | | WE | 25 | 10 | 0 | 0 | 0.0 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|----------------------------|--------------|--------------------|-------------------------|---|-----------------|--------------------------------|------------------------------------|
| <i>Pee Dee Access Area</i> | Jan 05 | WD | 95 | 70 | 1 | 1 | 2.5 |
| | | WE | 95 | 70 | 2 | 2 | 5.0 |
| | Feb 05 | WD | 95 | 70 | 1 | 1 | 2.5 |
| | | WE | 95 | 70 | 4 | 4 | 9.9 |
| | Mar 05 | WD | 95 | 70 | 6 | 5 | 13.5 |
| | | WE | 95 | 70 | 5 | 5 | 12.4 |
| | Apr 04 | WD | 95 | 70 | 35 | 29 | 78.3 |
| | | WE | 95 | 70 | 58 | 50 | 132.5 |
| | May 04 | WD | 95 | 70 | 29 | 22 | 62.0 |
| | | WE | 95 | 70 | 57 | 37 | 112.9 |
| | | HOL | 95 | 70 | 19 | 17 | 44.3 |
| | Jun 04 | WD | 95 | 70 | 12 | 10 | 26.9 |
| | | WE | 95 | 70 | 68 | 37 | 124.4 |
| | Jul 04 | WD | 95 | 70 | 62 | 46 | 131.0 |
| | | WE | 95 | 70 | 36 | 24 | 72.2 |
| | | HOL | 95 | 70 | 66 | 46 | 135.2 |
| | Aug 04 | WD | 95 | 70 | 8 | 7 | 18.4 |
| | | WE | 95 | 70 | 61 | 45 | 128.5 |
| | Sep 04 | WD | 95 | 70 | 3 | 3 | 7.4 |
| | | WE | 95 | 70 | 12 | 10 | 26.9 |
| | | HOL | 95 | 70 | 6 | 6 | 14.9 |
| | Oct 04 | WD | 95 | 70 | 6 | 6 | 14.9 |
| | | WE | 95 | 70 | 8 | 8 | 19.8 |
| | Nov 04 | WD | 95 | 70 | 3 | 2 | 6.0 |
| | | WE | 95 | 70 | 12 | 11 | 28.3 |
| | Dec 04 | WD | 95 | 70 | 1 | 1 | 2.5 |
| | | WE | 95 | 70 | 8 | 8 | 19.8 |

| Location | Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicles | Vehicle w/ Boat Trailer | Percent of Capacity Reached |
|--------------------------------|--------|-------------|------------------|-------------------------------------|----------|----------------------------|-----------------------------|
| <i>Blewett Access Area</i> | Jan 05 | WD | 50 | 10 | 2 | 0 | 4.0 |
| | | WE | 50 | 10 | 1 | 0 | 2.0 |
| | Feb 05 | WD | 50 | 10 | 2 | 0 | 4.0 |
| | | WE | 50 | 10 | 3 | 0 | 6.0 |
| | Mar 05 | WD | 50 | 10 | 6 | 1 | 22.0 |
| | | WE | 50 | 10 | 4 | 1 | 18.0 |
| | Apr 04 | WD | 50 | 10 | 11 | 0 | 22.0 |
| | | WE | 50 | 10 | 9 | 0 | 18.0 |
| | May 04 | WD | 50 | 10 | 10 | 1 | 30.0 |
| | | WE | 50 | 10 | 11 | 0 | 22.0 |
| | | HOL | 50 | 10 | 12 | 0 | 24.0 |
| | Jun 04 | WD | 50 | 10 | 11 | 0 | 22.0 |
| | | WE | 50 | 10 | 11 | 0 | 22.0 |
| | Jul 04 | WD | 50 | 10 | 15 | 0 | 30.0 |
| | | WE | 50 | 10 | 12 | 1 | 34.0 |
| | | HOL | 50 | 10 | 7 | 0 | 14.0 |
| | Aug 04 | WD | 50 | 10 | 8 | 0 | 16.0 |
| | | WE | 50 | 10 | 13 | 0 | 26.0 |
| | Sep 04 | WD | 50 | 10 | 3 | 0 | 6.0 |
| | | WE | 50 | 10 | 6 | 0 | 12.0 |
| | | HOL | 50 | 10 | 19 | 0 | 38.0 |
| | Oct 04 | WD | 50 | 10 | 13 | 0 | 26.0 |
| | | WE | 50 | 10 | 5 | 0 | 10.0 |
| | Nov 04 | WD | 50 | 10 | 3 | 0 | 6.0 |
| | | WE | 50 | 10 | 7 | 0 | 14.0 |
| | Dec 04 | WD | 50 | 10 | 1 | 0 | 2.0 |
| | | WE | 50 | 10 | 5 | 0 | 10.0 |

Table 138 Percentage of Lake Tillery respondents to level of crowding and boating density.

| | Boating Densit ^{y1} | | | | | | Total (n=1209) |
|--|------------------------------|-----|--------|-----|------|----------------|-------------------|
| | Low | | Medium | | Peak | | |
| | % | n | % | n | % | n | |
| <i>Level of Crowding Concern</i> | | | | | | | |
| Low | 5.4 | 10 | 17.5 | 85 | 10 | 54 | 131 |
| Medium | 4.3 | 8 | 2.5 | 12 | 8 | 43 | 43 |
| High | 1.1 | 2 | 3.7 | 18 | 1.9 | 10 | 16 |
| Did not Address | 89.1 | 164 | 76.3 | 371 | 80.1 | 432 | 521 |
| | | | | | | X ² | 43.08*** |
| <i>How crowded was the Lake today?</i> | | | | | | | |
| Not Crowded | 79.1 | 102 | 54.4 | 197 | 54.1 | 119 | 418 |
| Acceptable | 8.5 | 11 | 32.6 | 118 | 31.8 | 70 | 199 |
| Very Crowded | 1.6 | 2 | 3.6 | 13 | 4.1 | 9 | 24 |
| Did not Address | 10.9 | 14 | 9.4 | 34 | 10 | 22 | 70 |
| | | | | | | X ² | 34.25*** |
| <i>How crowded were the access points today?</i> | | | | | | | |
| Not Crowded | 89.1 | 115 | 58 | 210 | 48.6 | 107 | 432 |
| Acceptable | 10.1 | 13 | 31.2 | 113 | 36.4 | 80 | 206 |
| Very Crowded | .8 | 1 | 15 | 8 | 6.8 | 15 | 24 |
| Did not Address | 0 | 0 | 18 | 31 | 8.2 | 18 | 49 |
| | | | | | | X ² | 143.6*** |

***p ≤ .001

¹ Estimated boating density was calculated by taking the maximum number of boats with trailers and maximum number of jet skis counted for a particular type of day (weekday, weekend, holiday) in a given month. Boating density variables were created from the amount of estimated boat use on a given day within a given month (see Table 140).

Table 139 Percentage of Blewett Falls Lake respondents to level of crowding and boating density.

| | Boating Density ¹ | | | | | | Total (n=521) |
|--|------------------------------|-----|--------|-----|------|----------------|------------------|
| | Low | | Medium | | Peak | | |
| | % | n | % | n | % | n | |
| <i>Level of Crowding Concern</i> | | | | | | | |
| Low | 5.4 | 7 | 14.6 | 53 | 32.3 | 71 | |
| Medium | 0 | 0 | 6.6 | 24 | 8.6 | 19 | |
| High | 0 | 0 | 3 | 11 | 2.3 | 5 | |
| Did not Address | 94.6 | 122 | 75.7 | 274 | 56.8 | 125 | |
| | | | | | | X ² | 68.29*** |
| <i>How crowded was the Lake today?</i> | | | | | | | |
| Not Crowded | 79.3 | 146 | 52.9 | 257 | 39.7 | 214 | 617 |
| Acceptable | 6.5 | 12 | 31.9 | 155 | 42.9 | 231 | 398 |
| Very Crowded | 1.6 | 3 | 4.1 | 20 | 8.9 | 48 | 71 |
| Did not Address | 12.5 | 23 | 11.1 | 54 | 8.5 | 46 | 123 |
| | | | | | | X ² | 117.5*** |
| <i>How crowded were the access points today?</i> | | | | | | | |
| Not Crowded | 87.5 | 161 | 63.2 | 307 | 41.4 | 223 | 691 |
| Acceptable | 7.6 | 14 | 31.7 | 154 | 42.9 | 231 | 399 |
| Very Crowded | 1.6 | 12 | 2.5 | 12 | 8 | 43 | 58 |
| Did not Address | 3.3 | 13 | 2.7 | 13 | 7.8 | 42 | 61 |
| | | | | | | X ² | 143.6*** |

***p≤.001

¹ Estimated boating density was calculated by taking the maximum number of boats with trailers and maximum number of jet skis counted for a particular type of day (weekday, weekend, holiday) in a given month. Boating density variables were created from the amount of estimated boat use on a given day within a given month (see Table 142).

Table 140 Lake Tillery total estimated maximum daily watercraft by month.

| Visitor Boat Est. | Type of Day | Boat | Jet Ski | Total Watercraft | Monthly Resident Estimate | Range Per Day | | |
|-------------------|-------------|------|---------|------------------|---------------------------|---------------|-----|---------|
| | | | | | | WD | WE | Holiday |
| Jan 05 | WD | 20.0 | 0 | 20 | 82 | 102 | 114 | N/A |
| | WE | 32 | 0 | 32 | | | | |
| Feb 05 | WD | 29 | 0 | 29 | 93 | 122 | 124 | N/A |
| | WE | 31 | 0 | 31 | | | | |
| Mar 05 | WD | 23 | 0 | 23 | 157 | 180 | 227 | N/A |
| | WE | 70 | 0 | 70 | | | | |
| Apr 04* | WD | 44 | 1 | 45 | 157 | 202 | 432 | N/A |
| | WE | 262 | 13 | 275 | | | | |
| May 04 | WD | 78 | 4 | 82 | 446 | 528 | 594 | 536 |
| | WE | 136 | 12 | 148 | | | | |
| | Hol | 79 | 11 | 90 | | | | |
| Jun 04 | WD | 52 | 11 | 63 | 585 | 648 | 790 | N/A |
| | WE | 176 | 29 | 205 | | | | |
| Jul 04 | WD | 69 | 7 | 76 | 573 | 649 | 781 | 845 |
| | WE | 176 | 32 | 208 | | | | |
| | Hol | 233 | 39 | 272 | | | | |
| Aug 04 | WD | 31 | 4 | 35 | 499 | 534 | 615 | N/A |
| | WE | 101 | 15 | 116 | | | | |
| Sep 04 | WD | 31 | 0 | 31 | 453 | 484 | 529 | 516 |
| | WE | 68 | 8 | 76 | | | | |
| | Hol | 56 | 7 | 63 | | | | |
| Oct 04 | WD | 35 | 0 | 35 | 273 | 308 | 354 | N/A |
| | WE | 77 | 4 | 81 | | | | |
| Nov 04 | WD | 23 | 0 | 23 | 139 | 162 | 185 | N/A |
| | WE | 46 | 0 | 46 | | | | |
| Dec 04 | WD | 33 | 0 | 33 | 122 | 155 | 149 | N/A |
| | WE | 27 | 0 | 27 | | | | |

*Residents were not surveyed during the month of April, March estimates were utilized.

Table 141 Lake Tillery estimated maximum resident watercraft use.

| Month | Motorboating | | Jet Skiing | | Lake Canoeing | | Boat Fishing* | | Estimated Maximum Total Boats on a Day** |
|-----------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--|
| | Avg. Days Per Month | Avg. Boats Per Day | Avg. Days Per Month | Avg. Boats Per Day | Avg. Days Per Month | Avg. Boats Per Day | Avg. Days Per Month | Avg. Boats Per Day | |
| January | 1.21 | 73 | 0.19 | 11 | 0.23 | 14 | 0.94 | 7 | 82 |
| February | 1.32 | 88 | 0.28 | 17 | 0.16 | 10 | 0.64 | 5 | 93 |
| March | 2.21 | 134 | 0.78 | 47 | 0.21 | 13 | 1.11 | 8 | 157 |
| May | 5.82 | 352 | 3.18 | 192 | 0.22 | 13 | 1.91 | 14 | 446 |
| June | 7.17 | 448 | 4.43 | 268 | 0.29 | 18 | 2.35 | 17 | 585 |
| July | 7.35 | 444 | 3.99 | 241 | 0.51 | 31 | 2.59 | 19 | 573 |
| August | 6.55 | 396 | 3.35 | 203 | 0.45 | 27 | 1.89 | 14 | 499 |
| September | 5.66 | 354 | 3.03 | 183 | 0.47 | 28 | 2.11 | 15 | 453 |
| October | 3.63 | 219 | 1.72 | 104 | 0.25 | 15 | 1.63 | 12 | 273 |
| November | 2.03 | 127 | 0.55 | 33 | 0.16 | 10 | 1.11 | 8 | 139 |
| December | 1.62 | 98 | 0.39 | 24 | 0.39 | 24 | 1.52 | 11 | 122 |

*Boat Fishing: this figure assumes that 88% of boat anglers are also motorboaters.

**Assumes 22 percent of resident boats have been accounted for at public access areas.

Table 142 Blewett Falls Lake total visitor watercraft daily estimate by month.

| Month | Type of Day | Boat Trailers | Jet Skis | Total Est. Watercraft |
|--------|-------------|---------------|----------|-----------------------|
| Jan 05 | WD | 5 | 0 | 5 |
| | WE | 8 | 0 | 8 |
| Feb 05 | WD | 3 | 0 | 3 |
| | WE | 10 | 0 | 10 |
| Mar 05 | WD | 15 | 0 | 15 |
| | WE | 18 | 0 | 18 |
| Apr 04 | WD | 52 | 0 | 52 |
| | WE | 76 | 4 | 80 |
| May 04 | HOL | 36 | 2 | 38 |
| | WD | 45 | 1 | 46 |
| | WE | 50 | 6 | 56 |
| Jun 04 | WD | 23 | 1 | 24 |
| | WE | 55 | 7 | 62 |
| Jul 04 | HOL | 58 | 5 | 63 |
| | WD | 64 | 6 | 70 |
| | WE | 43 | 6 | 49 |
| Aug 04 | WD | 15 | 0 | 15 |
| | WE | 57 | 7 | 64 |
| Sep 04 | HOL | 11 | 0 | 11 |
| | WD | 8 | 0 | 8 |
| | WE | 21 | 1 | 22 |
| Oct 04 | WD | 11 | 0 | 11 |
| | WE | 15 | 1 | 16 |
| Nov 04 | WD | 5 | 0 | 5 |
| | WE | 19 | 0 | 19 |
| Dec 04 | WD | 8 | 0 | 8 |
| | WE | 12 | 0 | 12 |

Table 143 Lake Tillery facility inventory and assessment - Norwood Access Area.

| Primary Use(s): boating | Description | Capacity | Condition |
|--------------------------------------|---------------------------|-----------------|------------------|
| Boat Ramp | Paved ramp | 2 lanes | Good |
| Boat Dock | Wooden dock | 3 boats | Good |
| Navigation/Info Buoy | No wake buoy | -- | Good |
| Shoreline Fishing Access | Shoreline around cove | 5-10 | Fair |
| Shade Trees/Grass Area | Shade around shoreline | -- | Good |
| Main Paved Access Road | Paved road | 2 lane | Good |
| Secondary Gravel or Dirt Access Road | Gravel road into lot | 2 lane | Good |
| Vehicle Parking Area | Gravel and grass back lot | 90 | Good |
| Boat Trailer Parking Area | Gravel and grass back lot | 50 | Good |
| Signs | Area regulations | -- | Good |

Table 144 Lake Tillery facility inventory and assessment - Informal SR 1740 & 1745.

| Primary Use(s): bank fishing | Description | Capacity | Condition |
|-------------------------------------|----------------------------|-----------------|-----------------------|
| Boat Ramp | Primitive ramp | 1 lane | Poor |
| Shoreline Fishing Access | Grassy area along road | 20-25 | Fair/excessive litter |
| Swimming Beach | Small beach with low water | -- | Fair |
| Main Paved Access Road | SR 1740 | 2 lane | Good |
| Vehicle Parking Area | Small gravel lots (3) | 25 | Fair/excessive litter |
| Boat Trailer Parking Area | Small gravel lots (3) | 10 | Fair/excessive litter |

Table 145 Lake Tillery facility inventory and assessment - Stony Mountain Access.

| Primary Use(s): bank fishing; boating | Description | Capacity | Condition |
|--|------------------------------------|-----------------|--------------------------|
| Boat Ramp | Paved ramp | 2 lanes | Good |
| Boat Dock | Wooden dock | 3 boats | Good |
| Navigation/Info Buoy | No wake buoy | -- | Good |
| Shoreline Fishing Access | Bank fishing around point | 30-35 | Fair/excessive litter |
| Primitive Campsite | Clearings in trees (illegal) | 5-10 sites | Poor/excessive litter |
| Shade Trees/Grass Area | Many trees along shore | -- | Good |
| Multi-Use Trail | Trail along water through woods | -- | Good/excessive litter |
| Main Paved Access Road | Lake Tillery Drive | 2 lane | Good |
| Secondary Gravel or Dirt Access Road | Gravel road to lot | 2 lane | Good |
| Vehicle Parking Area | Gravel and grass lot | 155 | Good |
| Boat Trailer Parking Area | Gravel and grass lot | 60 | Good |
| Signs | Area regulations | -- | Good |

Table 146 Lake Tillery facility inventory and assessment - Swift Island Access.

| Primary Use(s): boating | Description | Capacity | Condition |
|---------------------------------|----------------------------|------------|--------------|
| Boat Ramp | Paved ramps | 4 lanes | Good |
| Boat Dock | Wooden docks | 8-10 boats | Good |
| Navigation/Info Buoy | No wake buoys | -- | Good |
| Shoreline Fishing Access | Fishing around parking lot | 5-10 | Good |
| Main Paved Access Road | Highway 24/27 | 2 lane | Under repair |
| Vehicle Parking Area | Gravel and side grass lot | 500 | Good |
| Extra Vehicle Parking Area | Grass lot in back | 100 | Good |
| Boat Trailer Parking Area | Gravel and side grass lot | 200 | Good |
| Extra Boat Trailer Parking Area | Grass lot in back | 40 | Good |
| Signs | Area regulations | -- | Good |

Table 147 Lake Tillery facility inventory and assessment - Lilly's Bridge Access.

| Primary Use(s): pier fishing; boating | Description | Capacity | Condition |
|--|--------------------------------|------------------------------|-----------|
| Boat Ramp | Paved ramps | 2 lanes | Good |
| Boat Dock | Wooden docks | 6 boats | Good |
| Navigation/Info Buoy | No wake buoy | -- | Good |
| Pier/Dock Fishing | Old bridge and old pier | Bridge 50-100/ Dock 10-15 | Good |
| Shoreline Fishing Access | Some bank fishing around ramps | 10 | Good |
| Shade Trees/Grass Area | Some shade around shore | -- | -- |
| Main Paved Access Road | Lilly's Bridge Road | 2 lane | Good |
| Secondary Gravel or Dirt Access Road | Short gravel road into lot | 2 lane | Good |
| Vehicle Parking Area | Gravel lot | 150 | Good |
| Extra Vehicle Parking Area | Grass lot | 50 | Good |
| Boat Trailer Parking Area | Gravel lot | 60 | Good |
| Extra Boat Trailer Parking Area | Grass lot | 20 | Good |
| Signs | Area regulation signs | -- | Good |

Table 148 Lake Tillery facility inventory and assessment - Informal Tailwater Access Area.

| Primary Use(s): tailrace fishing | Description | Capacity | Condition |
|--------------------------------------|-----------------------------|----------|------------------|
| Boat Ramp | Primitive boat launch | 1 lane | Poor |
| Shoreline Fishing Access | Large open area along water | 50-100 | Good/some litter |
| Shade Trees/Grass Area | Some shade trees along bank | -- | Fair |
| Main Paved Access Road | Power plant road | 2 lane | Good |
| Secondary Gravel or Dirt Access Road | Gravel road to water edge | 1 lane | Fair/very steep |
| Upper Vehicle Parking Area | Gravel lot | 30 | Good |
| Lower Vehicle Parking Area | Clearing next to ramp | 15 | Good |
| Upper Boat Trailer Parking Area | Gravel lot | 6 | Good |
| Lower Boat Trailer Parking Area | Clearing next to ramp | 6 | Good |

Table 149 Lake Tillery facility inventory and assessment - Tillery Canoe Portage.

| Primary Use(s): bank fishing | Description | Capacity | Condition |
|--------------------------------------|-----------------------------------|----------|------------------|
| Navigation/Info Buoy | Warning buoy line before dam | -- | Good |
| Shoreline Fishing Access | Clearings along shore | 25-30 | Good/some litter |
| Path to Facilities | Canoe portage trail to tailrace | -- | Fair |
| Trail Sign | Portage route sign | -- | Good |
| Secondary Gravel or Dirt Access Road | Gravel road from 731 | 2 lane | Fair |
| Vehicle Parking Area | Dirt lot and small clearings | 25 | Fair/some litter |
| Boat Trailer Parking Area | Dirt lot and small clearings | 10 | Fair/some litter |
| Signs | Spillway danger and portage route | -- | Good |

Table 150 Blewett Falls Lake facility inventory and assessment - U.S. Highway 74 Site.

| Primary Use(s): bank; boat fishing | Description | Capacity | Condition |
|------------------------------------|-------------------------|----------------|-----------|
| Boat Ramp | Concrete ramp | 1 lane | Good |
| Boat Dock | Small wooden dock | 2 boats | Good |
| Shoreline Fishing Access | Small clearings on bank | 5 | Fair |
| Shade Trees/Grass Area | Two grassy areas | -- | Good |
| Main Paved Access Road | Highway 74 | 4 lane highway | Good |
| Secondary Gravel/Dirt Access Road | Gravel road to lot | 2 lane | Good |
| Vehicle Parking Area | Gravel and grass lot | 125 | Good |
| Boat Trailer Parking Area | Gravel and grass lot | 50 | Good |
| Signs | Some regulation signs | -- | Good |

Table 151 Blewett Falls Lake facility inventory and assessment - Informal Tailrace Access.

| Primary Use(s): bank fishing; boating | Description | Capacity | Condition |
|--|--------------------------------|------------|---------------------------|
| Boat Ramp | 1 concrete ramp, 2 dirt | 1 lane ea. | Fair - Poor |
| Shoreline Fishing Access | Some clearings along shoreline | 20-25 | Good |
| Swimming Beach | Beach exposed at low water | -- | Fair |
| Safety Equipment/Signs | Danger sign for spillway | -- | Good |
| Secondary Gravel/Dirt Access Road | Blewett Falls Road | 2 lane | Good |
| Vehicle Parking Area | Gravel and dirt lot | 50 | Fair; some erosion damage |
| Boat Trailer Parking Area | Gravel and dirt lot | 20 | Fair; some erosion damage |
| Signs | Spillway danger sign | -- | Good |

Table 152 Blewett Falls Lake facility inventory and assessment - Blewett Falls Canoe Portage.

| Primary Use(s): swimming; fishing | Description | Capacity | Condition |
|--|--|-----------------|-------------------------------|
| Navigation/Info Buoy | Buoy in front of dam | -- | Good |
| Shoreline Fishing Access | Shoreline around portage cove | 10-20 | Fair; excessive litter |
| Shade Trees/Grass Area | Shady grassy area around cove | -- | Fair; excessive litter |
| Swimming Beach | Small beach around portage cove | 20-30 | Fair; excessive litter |
| Path to Facilities | Path to tailrace fishing and cove | -- | Fair |
| Main Paved Access Road | Blewett Falls Road | 2 lane | Good |
| Secondary Gravel/Dirt Access Road | Gravel road to parking area | 1 lane | Poor; holes; excessive litter |
| Vehicle Parking Area | Cul-de-sac, small clearing off road, and shoulders | 20 | Poor; holes; excessive litter |
| Boat Trailer Parking Area | Cul-de-sac, small clearing off road, and shoulders | 8 | Poor; holes; excessive litter |
| Signs | Portage trail signs | -- | Good |

Table 153 Blewett Falls Lake facility inventory and assessment - Grassy Islands Access.

| Primary Use(s): boat launch | Description | Capacity | Condition |
|------------------------------------|-------------------------------|-----------------|------------------|
| Boat Ramp | Concrete ramp | 1 lane | Fair |
| Shoreline Fishing Access | Grassy area along bank | 10 | Good |
| Interpretive Display | Hydroelectric project and map | -- | Good |
| Shade Trees/Grass Area | Small grassy area around lot | -- | Good |
| Main Paved Access Road | Grassy Islands Road | 2 lane | Good |
| Secondary Gravel/Dirt Access Road | Secondary gravel road | 2 lane | Good |
| Vehicle Parking Area | Gravel lot with some grass | 30 | Good |
| Boat Trailer Parking Area | Gravel lot with some grass | 12 | Good |
| Signs | Area regulations | -- | Good |

Table 154 Blewett Falls Lake facility inventory and assessment - Highway 109.

| Primary Use(s): boating; bank fishing | Description | Capacity | Condition |
|--|-----------------------------------|-----------------|------------------|
| Boat Ramp | Concrete ramp | 1 lane | Fair |
| Boat Dock | Wooden frame with metal grate | 3 boats | Good |
| Shoreline Fishing Access | 50 yards of open bank | -- | Good |
| Shade Trees/Grass Area | Large open grassy area with shade | -- | Good |
| Multi-Use Trail | Dirt road along bank | -- | -- |
| Main Paved Access Road | Highway 109 | 2 lane | Good |
| Secondary Gravel/Dirt Access Road | Gravel | 1 lane | Good |
| Vehicle Parking Area | Open grassy area | 57 | Good |
| Boat Trailer Parking Area | Open grassy area | 25 | Good |
| Signs | Area regulations | -- | Good |

Table 155 Blewett Falls Lake facility inventory and assessment - Informal SR 1744 Site.

| Primary Use(s): picnicking; fishing | Description | Capacity | Condition |
|-------------------------------------|------------------------------------|--------------|------------------------|
| Boat Ramp | Informal/unpaved launch | 1 lane | Fair |
| Shoreline Fishing Access | Open areas along bank | 20-30 | Fair; excessive litter |
| Shade Trees/Grass Area | Shade trees and grassy area | -- | Good; excessive litter |
| Swimming Beach | When water is low beach is exposed | 15-20 people | Good |
| Main Paved Access Road | SR 1744 | 2 lane | Good |
| Secondary Gravel/Dirt Access Road | Dirt road | 1 lane | Fair |
| Vehicle Parking Area | Grassy and dirt open areas | 25 | Fair |
| Boat Trailer Parking Area | Grassy and dirt open areas | 10 | Fair |

Table 156 Blewett Falls Lake facility and inventory assessment - Pee Dee Access Area.

| Primary Use(s): boating | Description | Capacity | Condition |
|-----------------------------------|--|------------------|-----------|
| Boat Ramp | Double ramp | 4 (2 lanes each) | Good |
| Boat Dock | 1 ramp with 2 docks/1 ramp with 1 dock | 6-10 boats | Good |
| Navigation/Info Buoy | 2 no wake buoys | -- | Good |
| Shoreline Fishing Access | Banks accessible from lot | -- | Good |
| Accessible Campsite | Dirt roads lead to campsite | -- | -- |
| Interpretive Display | PE Hydroelectric Project and Map | -- | Good |
| Main Paved Access Road | -- | 2 lane | Good |
| Secondary Gravel/Dirt Access Road | -- | 2 lane | Good |
| Vehicle Parking Area | Gravel lot with cable dividers | 95 | Good |
| Boat Trailer Parking Area | Gravel lot with cable dividers | 70 | Good |
| Signs | Area regulations and parking | -- | Good |

Table 157 Blewett Falls Lake facility inventory and assessment - Blewett Tailwater Access Area.

| Primary Use(s): bank; pier fishing | Description | Capacity | Condition |
|------------------------------------|--------------------------------------|----------------|-------------------|
| Boat Ramp | Private 1 lane gravel ramp | 1 lane | Fair |
| Navigation/Info Buoy | Warning buoy line around discharge | -- | Good |
| Pier/Dock Fishing | Concrete pier above discharge | 50-75 | Good; some litter |
| Shoreline Fishing Access | Approximately 100 yards of shoreline | 20-30 | Good; some litter |
| Shade Trees/Grass Area | Large shady area along river | -- | Good; some litter |
| Path to Facilities | Cement walkway | -- | Good |
| Multi-Use Trail | Path along shoreline/dirt | -- | Fair |
| Main Paved Access Road | Power Plant Road | 2 lane | Excellent |
| Secondary Gravel/Dirt Access Road | Private/leads to boat ramp | -- | Fair |
| Vehicle Parking Area | Paved parking lot | 50 | Good |
| Boat Trailer Parking Area | Paved parking lot | 10-20 | Good |
| Garbage Disposal | Plastic trash cans (4) | 50 gallon tubs | Good |
| Lighting | Parking lot/Power plant | -- | Good |
| Signs | Hydroelectric Project Sign | -- | Good |

Table 158 **Blewett/Tillery - downstream boat counts.**

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|-----------------|------|--------------------|----------------------------|--|------------------------|
| <i>May 2004</i> | | | | | |
| 1 | 830 | Rain | 1 | 0 | 0 |
| | 1500 | Cloudy | 4 | 0 | 0 |
| 2 | 800 | Rain | 0 | 0 | 0 |
| | 1745 | Rain | 0 | 0 | 0 |
| 3 | 940 | Rain | 0 | 1 | 0 |
| | 1610 | Sunny | 0 | 0 | 2 |
| 4 | 800 | Sunny | 1 | 2 | 1 |
| | 1730 | Sunny | 2 | 0 | 0 |
| 5 | 900 | Sunny | 0 | 0 | 1 |
| | 1800 | Sunny | 3 | 0 | 2 |
| 6 | 900 | Sunny | 2 | 0 | 1 |
| | 1900 | Sunny | 6 | 1 | 0 |
| 7 | 820 | Sunny | 2 | 0 | 0 |
| | 1420 | Sunny | 2 | 0 | 0 |
| 8 | 1050 | Sunny | 6 | 0 | 0 |
| | 1420 | Sunny | 5 | 0 | 1 |
| 9 | 1300 | Sunny | 7 | 0 | 1 |
| | 1600 | Sunny | 0 | 0 | 1 |
| 10 | 945 | Sunny | 1 | 0 | 0 |
| | 1745 | Sunny | 1 | 0 | 0 |
| 11 | 800 | Foggy | 0 | 0 | 0 |
| | 1800 | Sunny | 0 | 0 | 0 |
| 12 | 900 | Cloudy | 1 | 0 | 0 |
| | 1600 | Cloudy | 3 | 0 | 0 |
| 13 | 1000 | Cloudy | 0 | 0 | 0 |
| | 1800 | Clear | 5 | 0 | 0 |
| 14 | 700 | Sunny | 0 | 1 | 2 |
| | 1600 | Sunny | 0 | 1 | 1 |
| 15 | 600 | Clear | 0 | 0 | 0 |
| | 1900 | Sunny | 4 | 1 | 3 |
| 16 | 930 | Sunny | 1 | 1 | 1 |
| | 1430 | Sunny | 1 | 0 | 0 |
| 17 | 830 | Sunny | 0 | 0 | 0 |
| | 1800 | Sunny | 0 | 2 | 1 |
| 18 | 1330 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 19 | 1730 | Sunny | 1 | 0 | 0 |
| | 1900 | Sunny | 2 | 0 | 0 |
| 20 | 1100 | Sunny | 1 | 1 | 0 |
| | 1600 | Sunny | 1 | 0 | 1 |
| 21 | 815 | Partly Cloudy | 0 | 0 | 1 |
| | 1630 | Partly Cloudy | 0 | 0 | 1 |
| 22 | 700 | Partly Cloudy | 0 | 0 | 1 |
| | 1730 | Cloudy | 0 | 0 | 0 |
| 23 | 1000 | Partly Cloudy | 2 | 0 | 2 |
| | 1140 | | | | |
| 24 | | | | | |
| 25 | 830 | Sunny | Camera not working | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------------------|------|--------------------|----------------------------|--|------------------------|
| | 1530 | Cloudy | 0 | 0 | 0 |
| 26 | 830 | Sunny | 0 | 0 | 0 |
| | 1700 | Overcast | 1 | 0 | 0 |
| 27 | 1000 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 28 | 1000 | Overcast | 0 | 0 | 0 |
| | 1530 | Overcast | 0 | 0 | 0 |
| 29 | 1030 | Sunny | 0 | 1 | 0 |
| | 1730 | Sunny | 0 | 0 | 0 |
| 30 | 900 | Overcast | 0 | 0 | 0 |
| | 1430 | Overcast | 1 | 2 | 0 |
| 31 | 1700 | Overcast | 0 | 0 | 0 |
| | 1800 | Overcast | 0 | 0 | 0 |
| June 2004 | | | | | |
| 1 | 850 | Sunny | Broken Camera | 0 | 0 |
| | 1710 | Sunny | Broken Camera | 0 | 0 |
| 2 | 1015 | Sunny | Broken Camera | 0 | 1 |
| | 1600 | Sunny | Broken Camera | 0 | 1 |
| 3 | 820 | Mostly Cloudy | Broken Camera | 0 | 0 |
| | 1530 | Mostly Cloudy | Broken Camera | 0 | 1 |
| 4 | 1130 | Cloudy | Broken Camera | 0 | 0 |
| | 1700 | Rain | Broken Camera | 0 | 0 |
| 5 | 800 | Cloudy | Broken Camera | 0 | 0 |
| | 1600 | Cloudy | Broken Camera | 0 | 0 |
| 6 | 900 | Rain | Broken Camera | 0 | 0 |
| | 1600 | Cloudy | Broken Camera | 0 | 0 |
| 7 | 1100 | Cloudy | Broken Camera | 0 | 0 |
| | 1900 | Cloudy | Broken Camera | 0 | 3 |
| 8 | 900 | Cloudy | Broken Camera | 0 | 1 |
| | 1730 | Cloudy | Broken Camera | 1 | 0 |
| 9 | 730 | Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Cloudy | Broken Camera | 0 | 1 |
| 10 | 800 | Cloudy | Broken Camera | 0 | 0 |
| | 1830 | Sunny | Broken Camera | 1 | 1 |
| 11 | 900 | Sunny | Broken Camera | 0 | 0 |
| | 1700 | Ptly Cloudy | Broken Camera | 0 | 0 |
| 12 | 800 | Sunny | Broken Camera | 0 | 2 |
| | 1600 | Mostly Sunny | Broken Camera | 0 | 0 |
| 13 | 825 | Mostly Cloudy | Broken Camera | 0 | 1 |
| | 1720 | Mostly Cloudy | Broken Camera | 1 | 0 |
| 14 | 1135 | Mostly Cloudy | Broken Camera | 0 | 0 |
| | 1700 | Light Rain | Broken Camera | 1 | 0 |
| 15 | 1130 | Cloudy | Broken Camera - 0 | 0 | 0 |
| | 1830 | Cloudy | Broken Camera - 0 | 0 | 0 |
| 16 | 800 | Cloudy | Broken Camera - 0 | 0 | 0 |
| | 1630 | Rain | Broken Camera - 0 | 0 | 0 |
| 17 | 1030 | Cloudy | Broken Camera - 0 | 0 | 0 |
| | 1430 | Ptly Cloudy | Broken Camera - 1 | 0 | 0 |
| 18 | 700 | Cloudy | Broken Camera | 1 | 0 |
| | 1730 | Cloudy | Broken Camera | 1 | 1 |
| 19 | 730 | Sunny | Broken Camera | 1 | 2 |
| | 1400 | Sunny | Broken Camera | 0 | 2 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------------------|------|--------------------|----------------------------|--|------------------------|
| 20 | 630 | Sunny | Broken Camera | 0 | 0 |
| | 1800 | Sunny | Broken Camera | 1 | 1 |
| 21 | 400 | Clear | Broken Camera | 0 | 0 |
| | 1300 | Cloudy | Broken Camera | 1 | 1 |
| 22 | 1500 | Ptly Cloudy | Broken Camera | 0 | 0 |
| | 1700 | Sunny | Broken Camera | 0 | 0 |
| 23 | 900 | Cloudy | Broken Camera | 0 | 0 |
| | 1830 | Rain | Broken Camera | 0 | 0 |
| 24 | 1400 | Cloudy | Broken Camera | 0 | 0 |
| | 1700 | Ptly Cloudy | Broken Camera | 0 | 0 |
| 25 | 830 | Ptly Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Cloudy | Broken Camera | 0 | 0 |
| 26 | 730 | Cloudy | Broken Camera - 1 | 0 | 0 |
| | 1600 | Ptly Cloudy | Broken Camera - 2 | 2 | 0 |
| 27 | 1130 | Ptly Cloudy | Broken Camera - 0 | 0 | 0 |
| | 1800 | Cloudy | Broken Camera - 0 | 0 | 0 |
| 28 | 900 | Cloudy | Broken Camera - 1 | 0 | 1 |
| | 1830 | Ptly Cloudy | Broken Camera - 0 | 0 | 1 |
| 29 | 1030 | Sunny | Broken Camera - 0 | 0 | 0 |
| | 1800 | Sunny | Broken Camera - 0 | 0 | 0 |
| 30 | 800 | Sunny | Broken Camera | 0 | 0 |
| | 1715 | Sunny | Broken Camera | 0 | 0 |
| July 2004 | | | | | |
| 1 | 800 | Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Cloudy | Broken Camera | 0 | 1 |
| 2 | 1300 | Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Cloudy | Broken Camera | 0 | 1 |
| 3 | 930 | Cloudy | Broken Camera | 0 | 0 |
| | 1400 | Sunny | Broken Camera | 0 | 1 |
| 4 | 730 | Cloudy | Broken Camera | 0 | 0 |
| | 1700 | Sunny | Broken Camera | 0 | 0 |
| 5 | 830 | Sunny | Broken Camera | 0 | 0 |
| | 1730 | Sunny | Broken Camera | 0 | 0 |
| 6 | 1120 | Sunny | Broken Camera | 0 | 0 |
| | 1510 | Sunny | Broken Camera | 0 | 0 |
| 7 | 905 | Sunny | Broken Camera | 0 | 0 |
| | 1625 | Sunny | Broken Camera | 0 | 1 |
| 8 | 805 | Sunny | Broken Camera | 0 | 0 |
| | 1710 | Sunny | Broken Camera | 0 | 1 |
| 9 | 800 | Sunny | Broken Camera | 0 | 0 |
| | 1700 | Sunny | Broken Camera | 1 | 0 |
| 10 | 730 | Sunny | Broken Camera | 0 | 0 |
| | 1800 | Sunny | Broken Camera | 0 | 0 |
| 11 | 830 | Sunny | Broken Camera | 0 | 0 |
| | 1700 | Cloudy | Broken Camera | 0 | 0 |
| 12 | 900 | Cloudy | Broken Camera | 0 | 0 |
| | 1600 | Cloudy | Broken Camera | 0 | 0 |
| 13 | 700 | Sunny | Broken Camera | 0 | 0 |
| | 1700 | Sunny | Broken Camera | 0 | 1 |
| 14 | 815 | Sunny | Broken Camera | 0 | 0 |
| | 1735 | Sunny | Broken Camera | 0 | 0 |
| 15 | 900 | Sunny | Broken Camera | 1 | 1 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|--------------------|------|--------------------|----------------------------|--|------------------------|
| | 1800 | Sunny | Broken Camera | 1 | 2 |
| 16 | 815 | Sunny | Broken Camera | 0 | 0 |
| | 1500 | Sunny | Broken Camera | 1 | 0 |
| 17 | 100 | Clear | Broken Camera | 0 | 1 |
| | 1430 | Cloudy | Broken Camera | 0 | 0 |
| 18 | 800 | Cloudy | Broken Camera | 0 | 0 |
| | 1635 | Partly Cloudy | Broken Camera | 0 | 0 |
| 19 | 945 | Clear | Broken Camera | 0 | 0 |
| | 1700 | Partly Cloudy | Broken Camera | 0 | 0 |
| 20 | 1100 | Partly Cloudy | Broken Camera | 0 | 0 |
| | 1410 | Clear | Broken Camera | 0 | 0 |
| 21 | 810 | Sunny | Broken Camera | 0 | 0 |
| | 1750 | Sunny | Broken Camera | 1 | 0 |
| 22 | 810 | Sunny | Broken Camera | 0 | 0 |
| | 1745 | Rain | Broken Camera | 0 | 0 |
| 23 | 730 | Sunny | Broken Camera | 0 | 0 |
| | 1730 | Sunny | Broken Camera | 1 | 2 |
| 24 | 700 | Sunny | Broken Camera | 1 | 0 |
| | 1800 | Sunny | Broken Camera | 0 | 0 |
| 25 | 900 | Sunny | Broken Camera | 0 | 1 |
| | 1300 | Sunny | Broken Camera | 0 | 0 |
| 26 | 800 | Sunny | Broken Camera | 0 | 0 |
| | 1330 | Sunny | Broken Camera | 0 | 1 |
| 27 | 1100 | Sunny | Broken Camera | 0 | 0 |
| | 1530 | Rain | Broken Camera | 0 | 0 |
| 28 | 1000 | Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Cloudy | Broken Camera | 0 | 0 |
| 29 | 1045 | Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Cloudy | Broken Camera | 0 | 1 |
| 30 | 800 | Cloudy | Broken Camera | 0 | 0 |
| | 1600 | Cloudy | Broken Camera | 0 | 2 |
| 31 | 1140 | Cloudy | Broken Camera | 0 | 0 |
| | 1800 | Cloudy | Broken Camera | 0 | 0 |
| August 2004 | | | | | |
| 1 | 700 | Cloudy | Broken Camera | 0 | 0 |
| | 1700 | Cloudy | Broken Camera | 0 | 0 |
| 2 | 1100 | Partly Cloudy | Broken Camera | 0 | 0 |
| | 1530 | Partly Cloudy | Broken Camera | 0 | 0 |
| 3 | 830 | Partly Cloudy | Broken Camera | 0 | 0 |
| | 1730 | Sunny | Broken Camera | 0 | 0 |
| 4 | 800 | Sunny | Broken Camera | 0 | 0 |
| | 1600 | Sunny | Broken Camera | 0 | 0 |
| 5 | 730 | Sunny | Broken Camera | 0 | 0 |
| | 1700 | Cloudy | Broken Camera | 0 | 0 |
| 6 | 1000 | Sunny | Broken Camera | 0 | 0 |
| | 1730 | Sunny | Broken Camera | 0 | 0 |
| 7 | 800 | Sunny | Broken Camera | 0 | 0 |
| | 1700 | Sunny | Broken Camera | 2 | 0 |
| 8 | 1130 | Sunny | Broken Camera | 0 | 0 |
| | 1600 | Sunny | Broken Camera | 0 | 0 |
| 9 | 1000 | Sunny | Broken Camera | 0 | 0 |
| | 1630 | Sunny | Broken Camera | 0 | 1 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|-----------------------|------|--------------------|----------------------------|--|------------------------|
| 10 | 815 | Partly Cloudy | Broken Camera | 0 | 0 |
| | 1745 | Mostly Sunny | Broken Camera | 0 | 1 |
| 11 | 805 | Sunny | Broken Camera | 0 | 0 |
| | 1405 | Mostly Cloudy | Broken Camera | 0 | 1 |
| 12 | 825 | Cloudy | Broken Camera | 0 | 0 |
| | 1510 | Raining | Broken Camera | 0 | 0 |
| 13 | 730 | Raining | 0 | 0 | 0 |
| | 1730 | Raining | 0 | 1 | 1 |
| 14 | 800 | Raining | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 15 | 900 | Raining | 0 | 0 | 0 |
| | 1700 | Cloudy | 1 | 1 | 0 |
| 16 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1530 | Partly Cloudy | 1 | 0 | 0 |
| 17 | 800 | Sunny | Broken Camera | 0 | 0 |
| | 1800 | Sunny | Broken Camera | 0 | 1 |
| 18 | 700 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 1 | 1 | 1 |
| 19 | 900 | Sunny | 0 | 0 | 0 |
| | 1830 | Sunny | 2 | 1 | 0 |
| 20 | 830 | Sunny | 0 | 0 | 0 |
| | 1500 | Partly Sunny | 0 | 0 | 0 |
| 21 | 800 | Partly Cloudy | 0 | 0 | 0 |
| | 1730 | Sunny | 0 | 2 | 0 |
| 22 | 820 | Mostly Cloudy | 1 | 0 | 0 |
| | 1550 | Mostly Cloudy | 0 | 0 | 0 |
| 23 | 800 | Mostly Cloudy | 0 | 0 | 0 |
| | 1800 | Partly Cloudy | 1 | 1 | 0 |
| 24 | 730 | Cloudy | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 25 | 900 | Sunny | 0 | 0 | 0 |
| | 1400 | Sunny | 0 | 0 | 0 |
| 26 | 1100 | Sunny | 0 | 0 | 0 |
| | 1805 | Partly Cloudy | 1 | 0 | 0 |
| 27 | 730 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 1 | 0 | 1 |
| 28 | 630 | Sunny | 0 | 0 | 0 |
| | 1330 | Sunny | 1 | 1 | 2 |
| 29 | 700 | Partly Cloudy | 0 | 0 | 0 |
| | 1800 | Raining | 0 | 0 | 0 |
| 30 | 700 | Partly Cloudy | 0 | 0 | 0 |
| | 1300 | Sunny | 1 | 1 | 0 |
| 31 | 1200 | Rainy | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| September 2004 | | | | | |
| 1 | 900 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 1 |
| 2 | 1020 | Sunny | 0 | 0 | 0 |
| | 1800 | Sunny | 0 | 0 | 0 |
| 3 | 830 | Sunny | 1 | 1 | 1 |
| | 1410 | Sunny | 0 | 1 | 0 |
| 4 | 900 | Cloudy | 0 | 1 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------|------|--------------------|----------------------------|--|------------------------|
| | 1800 | Partly Cloudy | 0 | 0 | 0 |
| 5 | 1130 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 1 | 0 |
| 6 | 630 | Cloudy | 0 | 0 | 0 |
| | 1400 | Cloudy | 0 | 1 | 0 |
| 7 | 730 | Rain | 0 | 0 | 0 |
| | 1630 | Rain | 0 | 0 | 0 |
| 8 | 830 | Rain | 0 | 0 | 0 |
| | 1400 | Sunny | 0 | 0 | 0 |
| 9 | 730 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 10 | 700 | Sunny | 0 | 0 | 0 |
| | 1300 | Sunny | 0 | 0 | 0 |
| 11 | 1000 | Sunny | 0 | 0 | 0 |
| | 1730 | Sunny | 1 | 0 | 0 |
| 12 | 1030 | Sunny | 1 | 1 | 0 |
| | 1830 | Sunny | 1 | 0 | 0 |
| 13 | 800 | Sunny | 0 | 0 | 0 |
| | 1700 | Pt ClDY | 0 | 0 | 0 |
| 14 | 830 | Cloudy | 0 | 0 | 0 |
| | 1420 | Cloudy | 0 | 0 | 0 |
| 15 | 1100 | Cloudy | 1 | 0 | 1 |
| | 1410 | Cloudy | 0 | 1 | 0 |
| 16 | 810 | Cloudy | 0 | 0 | 0 |
| | 1415 | Cloudy | 0 | 0 | 2 |
| 17 | 730 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy | 1 | 0 | 1 |
| 18 | 900 | Cloudy | 0 | 0 | 0 |
| | 1730 | Cloudy | 0 | 1 | 0 |
| 19 | 1045 | Sunny | 1 | 0 | 2 |
| | 1745 | Sunny | 0 | 1 | 0 |
| 20 | 730 | Sunny | 0 | 0 | 0 |
| | 1645 | Sunny | 0 | 0 | 0 |
| 21 | 800 | Sunny | 1 | 0 | 0 |
| | 1700 | Sunny | 0 | 1 | 1 |
| 22 | 630 | Sunny | 0 | 0 | 0 |
| | 1200 | Sunny | 1 | 0 | 1 |
| 23 | 615 | Sunny | 0 | 0 | 0 |
| | 1815 | Sunny | 1 | 1 | 1 |
| 24 | 950 | Sunny | 0 | 0 | 1 |
| | 1610 | Mostly Sunny | 0 | 1 | 2 |
| 25 | 810 | Sunny | 0 | 0 | 0 |
| | 1730 | Partly Cloudy | 0 | 0 | 0 |
| 26 | 815 | Partly Cloudy | 0 | 0 | 0 |
| | 1730 | Partly Cloudy | 0 | 0 | 0 |
| 27 | 810 | Cloudy | 0 | 0 | 0 |
| | 1545 | Rain | 0 | 0 | 0 |
| 28 | 825 | Rain | 0 | 0 | 0 |
| | 1800 | Clear | 0 | 0 | 0 |
| 29 | 900 | Clear | 0 | 0 | 0 |
| | 1530 | Partly Cloudy | 0 | 0 | 0 |
| 30 | 1100 | Hazy | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|----------------------------|------|--------------------|----------------------------|--|------------------------|
| | 1800 | Clear | 0 | 0 | 0 |
| <i>October 2004</i> | | | | | |
| 1 | 800 | Sunny | 0 | 1 | 0 |
| | 1800 | Sunny | 0 | 1 | 1 |
| 2 | 900 | Sunny | 1 | 2 | 1 |
| | 1600 | Sunny | 2 | 2 | 1 |
| 3 | 1100 | Sunny | 1 | 0 | 0 |
| | 1700 | Rain | 0 | 0 | 0 |
| 4 | 700 | Foggy | 0 | 0 | 0 |
| | 1700 | Partly Cloudy | 0 | 0 | 0 |
| 5 | 1000 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 1 | 0 |
| 6 | 1045 | Cloudy | 0 | 0 | 0 |
| | 1930 | Cloudy | 0 | 0 | 0 |
| 7 | 700 | Foggy | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 8 | 830 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 1 | 0 | 0 |
| 9 | 900 | Sunny | 0 | 0 | 0 |
| | 1715 | Sunny | 0 | 1 | 0 |
| 10 | 1130 | Sunny | 0 | 0 | 0 |
| | 1830 | Clear | 0 | 0 | 0 |
| 11 | 730 | Partly Cloudy | 0 | 0 | 0 |
| | 1630 | Clear | 0 | 0 | 1 |
| 12 | 830 | Clear | 2 | 0 | 0 |
| | 1420 | Partly Cloudy | 0 | 0 | 0 |
| 13 | 800 | Rain | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 0 | 0 |
| 14 | 1000 | Sunny | 0 | 0 | 0 |
| | 1800 | Overcast | 0 | 0 | 0 |
| 15 | 1030 | Overcast | 0 | 0 | 0 |
| | 1730 | Sunny | 0 | 0 | 0 |
| 16 | 830 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 1 | 0 |
| 17 | 1020 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 18 | 1030 | Sunny | 0 | 0 | 0 |
| | 1830 | Sunny | 0 | 0 | 0 |
| 19 | 810 | Partly Sunny | 0 | 0 | 0 |
| | 1410 | Partly Sunny | 0 | 0 | 0 |
| 20 | 820 | Foggy | 0 | 0 | 0 |
| | 1430 | Mostly Cloudy | 0 | 0 | 0 |
| 21 | 800 | Cloudy | 3 | 0 | 0 |
| | 1625 | Cloudy | 0 | 0 | 0 |
| 22 | 1130 | Overcast | 0 | 0 | 0 |
| | 1700 | Overcast | 0 | 0 | 0 |
| 23 | 930 | Sunny | 0 | 0 | 0 |
| | 1800 | Overcast | 0 | 0 | 0 |
| 24 | 800 | Rain | 0 | 0 | 0 |
| | 1700 | Overcast | 0 | 1 | 0 |
| 25 | 830 | Cloudy | 0 | 0 | 2 |
| | 1530 | Sunny | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|----------------------|------|--------------------|----------------------------|--|------------------------|
| 26 | 1000 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 27 | 700 | Overcast | 0 | 0 | 0 |
| | 1730 | Overcast | 1 | 0 | 1 |
| 28 | 900 | Sunny | 0 | 0 | 0 |
| | 1400 | Sunny | 0 | 0 | 0 |
| 29 | 825 | Cloudy | 0 | 0 | 0 |
| | 1615 | Cloudy | 0 | 0 | 0 |
| 30 | 810 | Cloudy | 0 | 0 | 0 |
| | 1725 | Partly Sunny | 0 | 0 | 0 |
| 31 | 830 | Partly Cloudy | 1 | 0 | 0 |
| | 1405 | Sunny | 0 | 0 | 0 |
| November 2004 | | | | | |
| 1 | 905 | Overcast | 0 | 0 | 0 |
| | 1540 | Sunny | 0 | 0 | 0 |
| 2 | 1030 | Overcast | 0 | 0 | 0 |
| | 1600 | Partly Cloudy | 0 | 0 | 0 |
| 3 | 730 | Cloudy | 0 | 0 | 0 |
| | 1700 | Partly Cloudy | 0 | 0 | 0 |
| 4 | 1030 | Cloudy | 0 | 0 | 0 |
| | 1630 | Cloudy | 0 | 0 | 0 |
| 5 | 700 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 1 | 0 | 1 |
| 6 | 1000 | Sunny | 0 | 0 | 0 |
| | 1400 | Sunny | 1 | 0 | 0 |
| 7 | 700 | Sunny | 0 | 0 | 0 |
| | 1645 | Sunny | 0 | 0 | 0 |
| 8 | 800 | Sunny | 0 | 0 | 0 |
| | 1730 | Sunny | 1 | 0 | 1 |
| 9 | 1100 | Sunny | 0 | 0 | 0 |
| | 1645 | Sunny | 0 | 0 | 0 |
| 10 | 1020 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 0 | 0 |
| 11 | 800 | Partly Cloudy | 0 | 0 | 0 |
| | 1531 | Rain | 0 | 0 | 0 |
| 12 | 1130 | Rain | 0 | 0 | 0 |
| | 1630 | Rain | 0 | 0 | 0 |
| 13 | 900 | Cloudy | 0 | 0 | 0 |
| | 1400 | clear | 0 | 0 | 0 |
| 14 | 700 | clear | 0 | 0 | 1 |
| | 1400 | clear | 0 | 0 | 0 |
| 15 | 900 | clear | 0 | 0 | 0 |
| | 1630 | clear | 0 | 0 | 0 |
| 16 | 800 | Clear | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 17 | 830 | Sunny | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 18 | 800 | Sunny | 0 | 0 | 0 |
| | 1600 | Clear | 0 | 0 | 0 |
| 19 | 1245 | Clear | 0 | 0 | 0 |
| | 1530 | Clear | 0 | 0 | 0 |
| 20 | 930 | Cloudy | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|----------------------|------|--------------------|----------------------------|--|------------------------|
| | 1730 | Clear | 0 | 0 | 0 |
| 21 | 930 | Clear | 0 | 0 | 0 |
| | 1600 | Cloudy | 2 | 0 | 0 |
| 22 | 1000 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 23 | 815 | Rain | 0 | 0 | 0 |
| | 1415 | Cloudy | 0 | 0 | 0 |
| 24 | 1120 | Cloudy | 0 | 0 | 0 |
| | 1625 | Cloudy | 0 | 0 | 0 |
| 25 | 815 | Partly Cloudy | 1 | 0 | 0 |
| | 1500 | Windy | 0 | 0 | 1 |
| 26 | 800 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 27 | 1000 | Sunny | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 28 | 900 | Cloudy | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 29 | 800 | Sunny | 0 | 0 | 0 |
| | 1400 | Sunny | 0 | 0 | 0 |
| 30 | 800 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 0 | 0 |
| December 2004 | | | | | |
| 1 | 730 | Rain | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 2 | 900 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 1 | 1 |
| 3 | 910 | Mostly Sunny | 0 | 0 | 1 |
| | 1410 | Sunny | 0 | 0 | 1 |
| 4 | 730 | Foggy | 0 | 0 | 0 |
| | 1730 | Clear | 0 | 0 | 0 |
| 5 | 900 | Sunny | 0 | 0 | 0 |
| | 1400 | Sunny | 1 | 0 | 0 |
| 6 | 830 | Rain | 0 | 0 | 0 |
| | 1600 | Rain | 0 | 0 | 0 |
| 7 | 940 | Cloudy/Foggy | 0 | 0 | 0 |
| | 1250 | Cloudy | 0 | 0 | 0 |
| 8 | 945 | Sunny | 0 | 0 | 0 |
| | 1400 | Fair | 0 | 0 | 0 |
| 9 | 830 | Rain | 0 | 0 | 0 |
| | 1535 | Cloudy | 0 | 0 | 0 |
| 10 | 800 | Rain | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 11 | 920 | Cloudy | 1 | 0 | 0 |
| | 1410 | Cloudy | 0 | 0 | 0 |
| 12 | 830 | Partly Cloudy | 0 | 0 | 0 |
| | 1415 | Fair | 0 | 0 | 0 |
| 13 | 800 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 1 | 0 |
| 14 | 1100 | Sunny | 0 | 0 | 0 |
| | 1730 | Partly Cloudy | 0 | 0 | 0 |
| 15 | 900 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|---------------------|------|--------------------|----------------------------|--|------------------------|
| 16 | 1130 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 17 | 1000 | Partly Cloudy | 0 | 0 | 0 |
| | 1600 | Partly Cloudy | 0 | 0 | 0 |
| 18 | 1100 | Partly Cloudy | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 19 | 830 | Cloudy | 1 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 20 | 1030 | Clear | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 21 | 715 | Clear | 0 | 0 | 0 |
| | 1330 | Sunny | 0 | 0 | 0 |
| 22 | 800 | Sunny | 0 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 23 | 830 | Rain | 0 | 0 | 0 |
| | 1815 | Cloudy | 0 | 0 | 0 |
| 24 | 900 | Cloudy | 1 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 25 | 1000 | Cloudy | 0 | 0 | 0 |
| | 1300 | Cloudy | 0 | 0 | 0 |
| 26 | 730 | Snow / Ice | 0 | 0 | 0 |
| | 1400 | Cloudy | 0 | 0 | 0 |
| 27 | 930 | Clear | 0 | 0 | 0 |
| | 1500 | Clear | 1 | 0 | 0 |
| 28 | 805 | Clear | 0 | 0 | 0 |
| | 1605 | Sunny | 0 | 0 | 0 |
| 29 | 810 | Partly Cloudy | 0 | 0 | 0 |
| | 1500 | Sunny | 0 | 0 | 0 |
| 30 | 805 | Mostly Cloudy | 0 | 0 | 0 |
| | 1415 | Mostly Cloudy | 0 | 0 | 0 |
| 31 | 730 | Foggy | 0 | 0 | 0 |
| | 1430 | Clear | 2 | 0 | 0 |
| January 2005 | | | | | |
| 1 | 900 | Sunny | 0 | 0 | 0 |
| | 1500 | Sunny | 0 | 1 | 0 |
| 2 | 800 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 1 | 0 | 0 |
| 3 | 830 | Clear | 0 | 0 | 0 |
| | 1630 | Clear | 1 | 0 | 0 |
| 4 | 900 | Clear | 1 | 0 | 0 |
| | 1500 | Clear | 0 | 0 | 1 |
| 5 | 1000 | Clear | 0 | 0 | 0 |
| | 1400 | Clear | 0 | 1 | 0 |
| 6 | 930 | Clear | 0 | 0 | 0 |
| | 1800 | Clear | 0 | 0 | 0 |
| 7 | 810 | Partly Cloudy | 0 | 0 | 0 |
| | 1545 | Mostly Cloudy | 0 | 0 | 0 |
| 8 | 920 | Partly Sunny | 0 | 0 | 0 |
| | 1425 | Cloudy | 0 | 0 | 0 |
| 9 | 845 | Overcast | 0 | 0 | 0 |
| | 1520 | Sunny | 0 | 0 | 0 |
| 10 | 900 | Cloudy | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|----------------------|------|--------------------|----------------------------|--|------------------------|
| | 1530 | Sunny | 0 | 0 | 0 |
| 11 | 730 | Overcast / Fog | 0 | 0 | 0 |
| | 1630 | Cloudy | 0 | 0 | 0 |
| 12 | 1000 | Overcast / Fog | 0 | 0 | 0 |
| | 1600 | Cloudy | 2 | 0 | 0 |
| 13 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1500 | Rain | 0 | 0 | 0 |
| 14 | 1030 | Rain | 0 | 0 | 0 |
| | 1530 | Cloudy | 0 | 0 | 0 |
| 15 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy/cold | 0 | 0 | 0 |
| 16 | 830 | Cloudy | 0 | 0 | 0 |
| | 1800 | Fair | 0 | 0 | 0 |
| 17 | 1000 | Fair | 0 | 0 | 0 |
| | 1730 | Clear | 0 | 0 | 0 |
| 18 | 1200 | Clear | 0 | 0 | 0 |
| | 1530 | Clear | 0 | 0 | 0 |
| 19 | 900 | Cloudy | 0 | 0 | 0 |
| | 1600 | Clear | 0 | 0 | 0 |
| 20 | 800 | Clear | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 21 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 22 | 800 | Cloudy | 0 | 0 | 0 |
| | 1400 | Cloudy | 0 | 0 | 0 |
| 23 | 1000 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 0 | 0 | 0 |
| 24 | 1155 | Sunny | 0 | 0 | 0 |
| | 1600 | Partly Cloudy | 0 | 0 | 0 |
| 25 | 730 | Clear | 0 | 0 | 0 |
| | 1630 | Clear | 0 | 0 | 0 |
| 26 | 900 | Sunny | 1 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 27 | 930 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 28 | 800 | Partly Cloudy | 0 | 0 | 0 |
| | 1500 | Partly Cloudy | 0 | 0 | 0 |
| 29 | 1000 | Cloudy | 0 | 0 | 0 |
| | 1500 | Cloudy | 0 | 0 | 0 |
| 30 | 800 | Cloudy | 0 | 0 | 0 |
| | 1800 | Clear | 0 | 0 | 0 |
| 31 | 700 | Clear | 0 | 0 | 0 |
| | 1430 | Clear | 0 | 0 | 0 |
| February 2005 | | | | | |
| 1 | 815 | Light Snow | 0 | 0 | 0 |
| | 1550 | Partly Cloudy | 0 | 0 | 0 |
| 2 | 805 | Partly Cloudy | 0 | 0 | 0 |
| | 1410 | Cloudy | 0 | 0 | 0 |
| 3 | 805 | Rain | 0 | 0 | 0 |
| | 1410 | Rain | 0 | 0 | 0 |
| 4 | 830 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|-------------------|------|--------------------|----------------------------|--|------------------------|
| 5 | 900 | Sunny | 0 | 0 | 0 |
| | 1730 | Clear | 0 | 0 | 0 |
| 6 | 1000 | Sunny | 0 | 0 | 0 |
| | 1700 | Clear | 0 | 0 | 0 |
| 7 | 730 | Sunny | 0 | 0 | 0 |
| | 1800 | Clear | 0 | 0 | 0 |
| 8 | 1200 | Clear | 0 | 0 | 0 |
| | 1530 | Clear | 1 | 0 | 0 |
| 9 | 700 | Cloudy | 0 | 0 | 0 |
| | 1600 | Rain | 0 | 0 | 0 |
| 10 | 830 | Sunny | 0 | 0 | 1 |
| | 1530 | Partly Cloudy | 0 | 0 | 0 |
| 11 | 840 | Sunny | 0 | 0 | 0 |
| | 1420 | Mostly Sunny | 0 | 0 | 0 |
| 12 | 805 | Sunny | 0 | 0 | 0 |
| | 1410 | Sunny | 1 | 0 | 0 |
| 13 | 805 | Sunny | 0 | 0 | 0 |
| | 1410 | Partly Sunny | 1 | 0 | 0 |
| 14 | 830 | Mostly Cloudy | 0 | 0 | 0 |
| | 1430 | Rain | 0 | 0 | 0 |
| 15 | 900 | Cloudy | 0 | 0 | 0 |
| | 1300 | Cloudy | 0 | 0 | Cameras Out |
| 16 | 1100 | Cloudy | 0 | 0 | Cameras Out |
| | 1600 | Partly Cloudy | 0 | 0 | Cameras Out |
| 17 | 1000 | Partly Cloudy | 0 | 0 | Cameras Out |
| | 1700 | Clear | 1 | 1 | Cameras Out |
| 18 | 730 | Clear | 0 | 0 | Cameras Out |
| | 1800 | Clear | 0 | 0 | Cameras Out |
| 19 | 900 | Clear | 0 | 0 | Cameras Out |
| | 1600 | Clear | 0 | 1 | Cameras Out |
| 20 | 1000 | Rain | 0 | 0 | Cameras Out |
| | 1700 | Cloudy | 0 | 0 | Cameras Out |
| 21 | 800 | Rainy | 0 | 0 | Cameras Out |
| | 1800 | Cloudy | 0 | 0 | 0 |
| 22 | 900 | Foggy | 0 | 0 | 0 |
| | 1530 | Clear | 1 | 0 | 0 |
| 23 | 1100 | Clear | 0 | 0 | 0 |
| | 1530 | Clear | 1 | 0 | 1 |
| 24 | 1200 | Rain | 0 | 0 | 0 |
| | 1600 | Rain | 0 | 0 | 0 |
| 25 | 800 | Partly Cloudy | 0 | 0 | 0 |
| | 1500 | Clear | 0 | 0 | 0 |
| 26 | 810 | Sunny | 0 | 0 | 0 |
| | 1410 | Mostly Sunny | 0 | 0 | 0 |
| 27 | 805 | Cloudy | 0 | 0 | 0 |
| | 1410 | Cloudy | 0 | 0 | 0 |
| 28 | 815 | Rain | 0 | 0 | 0 |
| | 1400 | Cloudy | 0 | 0 | 0 |
| March 2005 | | | | | |
| 1 | 830 | Sunny | 0 | 0 | 0 |
| | 1715 | Clear | 0 | 0 | 0 |
| 2 | 900 | Sunny | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------|------|--------------------|----------------------------|--|------------------------|
| | 1600 | Sunny | 0 | 0 | 0 |
| 3 | 1100 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 4 | 1100 | Sunny | 0 | 0 | 0 |
| | 1330 | Sunny | 0 | 0 | 0 |
| 5 | 1000 | Sunny | 2 | 0 | 0 |
| | 1500 | Sunny | 0 | 0 | 0 |
| 6 | 800 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 7 | 1100 | Sunny | 0 | 0 | 0 |
| | 1400 | Sunny | 0 | 0 | 0 |
| 8 | 805 | Rain | 0 | 0 | 0 |
| | 1410 | Mostly Cloudy | 0 | 0 | 0 |
| 9 | 810 | Partly Cloudy | 0 | 0 | 0 |
| | 1410 | Partly Cloudy | 0 | 0 | 1 |
| 10 | 810 | Partly Cloudy | 0 | 0 | 0 |
| | 1515 | Mostly Sunny | 0 | 0 | 0 |
| 11 | 830 | Sunny | 0 | 0 | 0 |
| | 1700 | Rain | 0 | 0 | 0 |
| 12 | 915 | Mostly Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 1 |
| 13 | 1030 | Sunny | 2 | 1 | 0 |
| | 1600 | Sunny | 0 | 1 | 0 |
| 14 | 1015 | Cloudy | 0 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 15 | 1000 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 1 | 1 | 0 |
| 16 | 900 | Rain | 0 | 0 | 0 |
| | 1730 | Rain | 0 | 0 | 0 |
| 17 | 800 | Rain | 0 | 0 | 0 |
| | 1400 | Rain | 0 | 0 | 0 |
| 18 | 825 | Sunny | 0 | 0 | 0 |
| | 1410 | Sunny | 0 | 1 | 0 |
| 19 | 805 | Sunny | 0 | 0 | 0 |
| | 1410 | Partly Cloudy | 0 | 0 | 0 |
| 20 | 1115 | Sunny | 1 | 0 | 0 |
| | 1740 | Sunny | 1 | 0 | 1 |
| 21 | 805 | Sunny | 1 | 0 | 0 |
| | 1500 | Sunny | 0 | 0 | 0 |
| 22 | 935 | Partly Cloudy | 0 | 0 | 1 |
| | 17 | Cloudy | 1 | 0 | 0 |
| 23 | 820 | Rain | 0 | 0 | 0 |
| | 1405 | Partly Sunny | 0 | 1 | 0 |
| 24 | 800 | Sunny | 0 | 0 | 0 |
| | 1800 | Sunny | 0 | 0 | 0 |
| 25 | 930 | Sunny | 0 | 2 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 26 | 730 | Cloudy | 1 | 0 | 0 |
| | 1730 | Cloudy | 0 | 0 | 0 |
| 27 | 945 | Rain | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 28 | 1100 | Cloudy | 0 | 1 | 1 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|-------------------|------|--------------------|----------------------------|--|------------------------|
| | 1545 | Cloudy | 0 | 0 | 0 |
| 29 | 800 | Sunny | 0 | 0 | 0 |
| | 1545 | Sunny | 1 | 0 | 0 |
| 30 | 900 | Sunny | 1 | 0 | 0 |
| | 1645 | Sunny | 0 | 0 | 0 |
| 31 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| April 2005 | | | | | |
| 1 | 930 | Cloudy | 0 | 0 | 0 |
| | 1500 | Cloudy | 0 | 1 | 0 |
| 2 | 800 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 3 | 700 | Clear | 0 | 0 | 0 |
| | 1600 | Clear | 0 | 2 | 0 |
| 4 | 1000 | Clear | 0 | 0 | 0 |
| | 1800 | Clear | 0 | 0 | 0 |
| 5 | 900 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 0 | 0 | 0 |
| 6 | 730 | Sunny | 1 | 0 | 0 |
| | 1530 | Sunny | 0 | 0 | 0 |
| 7 | 930 | Sunny | 0 | 0 | 0 |
| | 1730 | Cloudy | 0 | 0 | 0 |
| 8 | 1000 | Cloudy | 0 | 0 | 0 |
| | 1530 | Partly Cloudy | 2 | 0 | 0 |
| 9 | 900 | Cloudy | 0 | 1 | 0 |
| | 1745 | Sunny | 3 | 2 | 0 |
| 10 | 830 | Sunny | 0 | 0 | 0 |
| | 1700 | Sunny | 3 | 1 | 0 |
| 11 | 1145 | Sunny | 1 | 0 | 0 |
| | 1715 | Sunny | 3 | 0 | 0 |
| 12 | 810 | Cloudy | 0 | 0 | 0 |
| | 1400 | Mostly Cloudy | 0 | 0 | 0 |
| 13 | 800 | Rain | 0 | 0 | 0 |
| | 1430 | Rain | 1 | 0 | 0 |
| 14 | 845 | Cloudy | 0 | 0 | 0 |
| | 1410 | Partly Cloudy | 0 | 0 | 0 |
| 15 | 900 | Sunny | 0 | 0 | 0 |
| | 1745 | Sunny | 0 | 0 | 0 |
| 16 | 800 | Sunny | 0 | 0 | 0 |
| | 1730 | Sunny | 0 | 0 | 0 |
| 17 | 1000 | Sunny | 0 | 1 | 1 |
| | 1800 | Sunny | 0 | 1 | 0 |
| 18 | 1000 | Sunny | 0 | 0 | 0 |
| | 1800 | Sunny | 1 | 1 | 0 |
| 19 | 1100 | Sunny | 0 | 0 | 0 |
| | 2000 | Clear | 2 | 0 | 0 |
| 20 | 830 | Sunny | 0 | 0 | 0 |
| | 1830 | Sunny | 0 | 0 | 0 |
| 21 | 1030 | Sunny | 0 | 0 | 0 |
| | 1730 | Sunny | 1 | 1 | 0 |
| 22 | 805 | Partly Cloudy | 1 | 0 | 0 |
| | 1405 | Partly Cloudy | 1 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|-----------------|------|--------------------|----------------------------|--|------------------------|
| 23 | 930 | Partly Cloudy | 0 | 1 | 0 |
| | 2000 | Partly Cloudy | 0 | 0 | 0 |
| 24 | 830 | Cloudy | 0 | 0 | 0 |
| | 2100 | Cloudy | 0 | 0 | 0 |
| 25 | 800 | Sunny | 1 | 0 | 0 |
| | 1800 | Sunny | 0 | 0 | 0 |
| 26 | 815 | Rain | 0 | 0 | 0 |
| | 1415 | Rain | 1 | 0 | 0 |
| 27 | 855 | Mostly Cloudy | 0 | 0 | 0 |
| | 1410 | Partly Cloudy | 1 | 0 | 0 |
| 28 | 820 | Sunny | 0 | 0 | 0 |
| | 1425 | Partly Cloudy | 0 | 0 | 1 |
| 29 | 900 | Partly Cloudy | 0 | 0 | 0 |
| | 1800 | Sunny | 0 | 0 | 0 |
| 30 | 900 | Partly Cloudy | 1 | 0 | 0 |
| | 1600 | Cloudy | 1 | 0 | 0 |
| May 2005 | | | | | |
| 1 | 830 | Cloudy | 0 | 0 | 0 |
| | 1500 | Sunny | 6 | 0 | 0 |
| 2 | 1000 | Sunny | 2 | 1 | 0 |
| | 1800 | Sunny | 2 | 0 | 0 |
| 3 | 1030 | Sunny | 2 | 0 | 0 |
| | 1420 | Sunny | 1 | 0 | 0 |
| 4 | 800 | Sunny | 2 | 0 | 0 |
| | 1700 | Sunny | 2 | 0 | 0 |
| 5 | 900 | Cloudy | 0 | 0 | 0 |
| | 1400 | Cloudy | 0 | 0 | 0 |
| 6 | 1000 | Partly Cloudy | 0 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 7 | 700 | Clear | 0 | 0 | 0 |
| | 1730 | Clear | 5 | 0 | 0 |
| 8 | 1100 | Clear | 0 | 0 | 0 |
| | 1815 | Clear | 0 | 0 | 0 |
| 9 | 800 | Clear | 1 | 0 | 0 |
| | 1600 | Clear | 0 | 0 | 0 |
| 10 | 830 | Sunny | 1 | 0 | 0 |
| | 1745 | Rain | 0 | 0 | 0 |
| 11 | 900 | Sunny | 0 | 0 | 0 |
| | 1800 | Sunny | 3 | 0 | 0 |
| 12 | 830 | Sunny | 1 | 0 | 0 |
| | 1745 | Sunny | 0 | 0 | 0 |
| 13 | 1000 | Cloudy | 0 | 0 | 1 |
| | 1345 | Cloudy | 0 | 0 | 1 |
| 14 | 715 | Cloudy | 0 | 0 | 2 |
| | 1415 | Cloudy | 0 | 0 | 0 |
| 15 | 1000 | Cloudy | 1 | 0 | 2 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 16 | 945 | Cloudy | 2 | 0 | 0 |
| | 1720 | Sunny | 4 | 0 | 0 |
| 17 | 840 | Partly Sunny | 0 | 0 | 0 |
| | 1550 | Partly Cloudy | 1 | 0 | 0 |
| 18 | 830 | Mostly Cloudy | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------------------|------|--------------------|----------------------------|--|------------------------|
| | 1710 | Partly Cloudy | 4 | 0 | 0 |
| 19 | 810 | Mostly Cloudy | 0 | 0 | 0 |
| | 1710 | Mostly Cloudy | 1 | 0 | 0 |
| 20 | 800 | Rain | 0 | 0 | 0 |
| | 1630 | Cloudy | 2 | 0 | 0 |
| 21 | 730 | Cloudy | 2 | 1 | 0 |
| | 1430 | Sunny | 0 | 0 | 0 |
| 22 | 900 | Sunny | 1 | 0 | 0 |
| | 1730 | Sunny | 0 | 1 | 0 |
| 23 | 800 | Overcast | 0 | 0 | 0 |
| | 1700 | Overcast | 1 | 0 | 0 |
| 24 | 730 | Sunny | 0 | 0 | 0 |
| | 1810 | Sunny | 1 | 0 | 0 |
| 25 | 815 | Cloudy | 0 | 0 | 0 |
| | 1630 | Cloudy | 2 | 0 | 0 |
| 26 | 900 | Sunny | 0 | 0 | 0 |
| | 1730 | Mostly Sunny | 1 | 1 | 0 |
| 27 | 820 | Partly Cloudy | 0 | 0 | 0 |
| | 1640 | Partly Cloudy | 2 | 3 | 1 |
| 28 | 810 | Partly Cloudy | 2 | 0 | 0 |
| | 1735 | Partly Cloudy | 4 | 0 | 0 |
| 29 | 825 | Mostly Sunny | 1 | 0 | 0 |
| | 1705 | Cloudy | 2 | 0 | 0 |
| 30 | 805 | Rain | 2 | 0 | 0 |
| | 1730 | Cloudy | 1 | 0 | 0 |
| 31 | 730 | Cloudy | 0 | 0 | 0 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| June 2005 | | | | | |
| 1 | 730 | Rain | 0 | 0 | 0 |
| | 1730 | Rain | 0 | 0 | 0 |
| 2 | 800 | Rain | 0 | 0 | 0 |
| | 1430 | Cloudy | 2 | 0 | 0 |
| 3 | 1030 | Cloudy | 0 | 0 | 0 |
| | 1800 | Cloudy | 0 | 0 | 0 |
| 4 | 815 | Sunny | 0 | 2 | 0 |
| | 1730 | Sunny | 2 | 1 | 0 |
| 5 | 930 | Fog | 1 | 0 | 0 |
| | 1700 | Sunny | 2 | 2 | 0 |
| 6 | 1030 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 7 | 800 | Foggy | 0 | 0 | 0 |
| | 1800 | Cloudy | 2 | 1 | 0 |
| 8 | 1030 | Sunny | 2 | 0 | 0 |
| | 1715 | Sunny | 1 | 0 | 0 |
| 9 | 1420 | Sunny | 1 | 1 | 1 |
| | 1815 | Cloudy | 4 | 0 | 0 |
| 10 | 900 | Cloudy | 3 | 1 | 0 |
| | 1730 | Rain | 3 | 0 | 0 |
| 11 | 1000 | Clear | 0 | 0 | 0 |
| | 1700 | Cloudy | 4 | 0 | 0 |
| 12 | 730 | Cloudy | 2 | 0 | 0 |
| | 1600 | Cloudy | 1 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------------------|------|--------------------|----------------------------|--|------------------------|
| 13 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1700 | Sunny | 1 | 0 | 0 |
| 14 | 800 | Sunny | 0 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 0 |
| 15 | 730 | Sunny | 1 | 0 | 0 |
| | 1800 | Sunny | 1 | 0 | 1 |
| 16 | 900 | Sunny | 0 | 0 | 0 |
| | 1800 | Sunny | 3 | 0 | 0 |
| 17 | 1100 | Pt / Cldy | 2 | 0 | 0 |
| | 1520 | Sunny | 0 | 0 | 0 |
| 18 | 1030 | Sunny | 1 | 0 | 1 |
| | 1530 | Sunny | 0 | 0 | 0 |
| 19 | 1200 | Sunny | 3 | 0 | 2 |
| | 1800 | Cloudy | 0 | 1 | 0 |
| 20 | 1000 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 1 | 0 | 0 |
| 21 | 810 | Sunny | 0 | 0 | 0 |
| | 1405 | Partly Cloudy | 2 | 0 | 0 |
| 22 | 805 | Sunny | 2 | 0 | 0 |
| | 1555 | Partly Cloudy | 1 | 0 | 0 |
| 23 | 810 | Sunny | 0 | 0 | 0 |
| | 1730 | Partly Cloudy | 1 | 0 | 0 |
| 24 | 1045 | Sunny | 1 | 0 | 0 |
| | 1630 | Sunny | 0 | 0 | 1 |
| 25 | 800 | Sunny | 0 | 0 | 0 |
| | 1730 | Cloudy | 0 | 0 | 0 |
| 26 | 930 | Cloudy | 1 | 0 | 0 |
| | 1600 | Cloudy | 3 | 0 | 0 |
| 27 | 900 | Cloudy | 0 | 0 | 0 |
| | 1730 | Cloudy | 3 | 0 | 1 |
| 28 | 730 | Cloudy | 0 | 0 | 0 |
| | 1630 | Rain | 1 | 0 | 0 |
| 29 | 1000 | Rain | 0 | 0 | 0 |
| | 1745 | Sunny | 0 | 0 | 0 |
| 30 | 845 | Sunny | 0 | 0 | 0 |
| | 1816 | Sunny | 0 | 0 | 0 |
| July 2005 | | | | | |
| 1 | 730 | Clear | 1 | 0 | 0 |
| | 1600 | Clear | 1 | 0 | 0 |
| 2 | 805 | Foggy | 3 | 0 | 0 |
| | 1735 | Sunny | 0 | 0 | 0 |
| 3 | 805 | Partly Cloudy | 3 | 0 | 0 |
| | 1735 | Cloudy | 0 | 3 | 1 |
| 4 | 805 | Mostly Cloudy | 0 | 0 | 0 |
| | 1730 | Light Rain | 0 | 0 | 0 |
| 5 | 1000 | Clear | 0 | 0 | 0 |
| | 1730 | Clear | 2 | 0 | 0 |
| 6 | 930 | Clear | 2 | 0 | 0 |
| | 1730 | Cloudy | 0 | 0 | 0 |
| 7 | 1100 | Partly Cloudy | 2 | 0 | 0 |
| | 1500 | Partly Cloudy | 0 | 0 | 0 |
| 8 | 800 | Sunny | 0 | 0 | 0 |

| Date | Time | Weather Conditions | BL- Downstream of Spillway | BL- Downstream of Powerhouse Discharge | TIL- Downstream of Dam |
|------|------|--------------------|----------------------------|--|------------------------|
| | 1700 | Sunny | 2 | 0 | 0 |
| 9 | 915 | Sunny | 1 | 1 | 0 |
| | 1400 | Sunny | 0 | 1 | 0 |
| 10 | 800 | Foggy | 0 | 0 | 0 |
| | 1600 | Partly Cloudy | 1 | 0 | 1 |
| 11 | 1100 | Cloudy | 0 | 0 | 0 |
| | 1600 | Cloudy | 0 | 0 | 0 |
| 12 | 845 | Cloudy | 2 | 0 | 0 |
| | 1815 | Sunny | 0 | 0 | 0 |
| 13 | 630 | Sunny | 0 | 0 | 0 |
| | 1830 | Sunny | 0 | 0 | 0 |
| 14 | 730 | Sunny | 0 | 0 | 0 |
| | 1600 | Sunny | 1 | 0 | 0 |
| 15 | 700 | Cloudy | 1 | 0 | 1 |
| | 1700 | Cloudy | 0 | 0 | 0 |
| 16 | 930 | Cloudy | 3 | 0 | 1 |
| | 1630 | Cloudy | 0 | 0 | 0 |
| 17 | 1015 | Partly Cloudy | 0 | 0 | 0 |
| | 1430 | Cloudy | 1 | 2 | 0 |
| 18 | 800 | Cloudy | 0 | 0 | 0 |
| 19 | 815 | Sunny | 1 | 0 | 0 |
| | 1955 | Mostly Cloudy | 0 | 2 | 0 |
| 20 | 930 | Mostly Cloudy | 0 | 0 | 0 |
| | 1745 | Sunny | 1 | 0 | 0 |
| 21 | 645 | Cloudy | 0 | 0 | 0 |
| | 1745 | Cloudy | 0 | 0 | 0 |
| 22 | 945 | Partly Cloudy | 0 | 0 | 0 |
| | 1530 | Partly Cloudy | 0 | 0 | 0 |
| 23 | 900 | Cloudy | 0 | 0 | 4 |
| | 1800 | Partly Cloudy | 0 | 0 | 0 |
| 24 | 1000 | Partly Cloudy | 3 | 0 | 0 |
| | 1700 | Partly Cloudy | 2 | 0 | 0 |
| 25 | 900 | Sunny | 0 | 0 | 0 |
| | 2115 | Fair | 0 | 0 | 1 |
| 26 | 815 | Sunny | 0 | 0 | 0 |
| | 1740 | Mostly Sunny | 0 | 0 | 0 |
| 27 | 830 | Sunny | 1 | 0 | 0 |
| | 1755 | Partly Cloudy | 0 | 0 | 0 |
| 28 | 850 | Partly Cloudy | 1 | 0 | 0 |
| | 1735 | Partly Cloudy | 0 | 0 | 1 |
| 29 | 700 | Cloudy | 0 | 0 | 0 |
| | 1645 | Cloudy | 0 | 0 | 0 |
| 30 | 1000 | Cloudy | 0 | 1 | 0 |
| | 1330 | Cloudy | 1 | 1 | 0 |
| 31 | 830 | Rain | 0 | 0 | 0 |
| | 1745 | Rain | 0 | 0 | 0 |

APPENDIX E7-2
RECREATION NEEDS ASSESSMENT

**APPENDIX E7-2
RECREATION NEEDS ASSESSMENT**

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1.0 Methods and Analysis

The Recreation Needs Assessment provides a qualitative assessment, utilizing professional judgment of the Licensee of recreation needs. This assessment is based on the integration of findings two studies: Inventory and Assessment of Recreation Facilities and the Recreation Visitor and Resident Surveys. The assessment involved a four-step process in which relevant information on recreation trends were described; the Project area recreation opportunities were described, relevant Project area recreation issues and management plans were identified, and the potential actions to address Project-related issues were identified, and proposed. These steps are discussed below.

- **Step 1. Summary of regional recreation trends and relevant recreation plans:** The first step in the needs assessment was to provide an overview of national, regional, and where possible local recreation trends. This summary helps to contextualize recreation occurring within the Project area, as well as potential future trends in the region.
- **Step 2. Summary of Project-related recreation opportunities at recreation resource areas:** The second step in the needs assessment was to integrate recreation study findings into a summary of Project-related recreation opportunities at Lake Tillery and Blewett Falls Lake. The existing condition of the recreation opportunity as well as the likely condition of the opportunity over the license term is described. Parameters discussed include such items as activity participation rates, concerns, facility needs, regional significance, resource impacts, and existing and likely future capacity availability.
- **Step 3. Evaluation of the major recreation issues for each recreation resource area:** Based on the existing and projected license term and the conditions of recreation opportunities within each recreation resource area, the recreation issues within the recreation resource area were identified. This included items such as crowding, conflicts between user groups, likely facility needs over the license term, or various types of impacts resulting from recreation use.
- **Step 4. Identification of a set of reasonable possible actions to address Project-related issues:** A reasonable set of prioritized actions that address Project-related recreation issues will be developed. In some cases, several alternative actions are likely to be developed to address the same issue. The following criteria will be used to identify reasonable proposal actions and to prioritize these actions (Whittaker, Vaske, and Manfredro 2002):
 - **Effectiveness:** How effective is the proposal at addressing issues?
 - **Appropriateness:** How appropriate is the proposal for the given management setting (i.e. Recreation Opportunity Spectrum (ROS) class setting)?
 - **Public Acceptability:** How likely is it that recreation visitors will support the actions.
 - **Feasibility and Cost:** How feasible is it to implement the proposal given administrative policies, laws, land ownership, and costs?

2.0 Summary of Regional Recreation Trends and Relevant Recreation Plans

The following recreation plans and reports reflect trends occurring in the region, as well as needs defined by state and local groups, which may assist managers in determining the future recreation needs and subsequent strategies for meeting these needs. These plans provide a framework for assessing present recreation opportunities, their relationship to current recreation demand, as well as consideration for recreation trends in the future.

Outdoor Recreation in American Life: A National Assessment of Supply and Demand Trends (Cordell 1999)

One of the most comprehensive documents relative to market and trend analysis specific to outdoor recreation both nationally and regionally, is: *Outdoor Recreation in American Life: A National Assessment of Supply and Demand Trends (Cordell 1999)*. Within the text, Cordell et al. (1999) report trends and forecast demand for outdoor recreational activities at both national and regional levels. For the purposes of this analysis, an overview of the southern U.S. was utilized was appropriately utilized for this Project area.

Nationally, trends and future projections point toward continued increases in the number of participants, trips, and activity days for outdoor recreation across nearly all types of recreation activities. Land-based activities, rather than activities that occur on water or snow and ice, constituted the largest single category of outdoor recreational participation.

The study distinguishes between activity days, primary-purpose trips, and overall participation rates. Nationally the five fastest growing outdoor recreation activities through the year 2050 measured in activity days are expected to be: visiting historic places (116 percent growth), downhill skiing (110 percent growth), snowmobiling (99 percent growth), sightseeing (98 percent growth), and non-consumptive wildlife activity (97 percent growth). Activities expected to grow the slowest with regards to activity days, included fishing (27 percent growth), primitive camping (24 percent growth), cross country skiing (18 percent growth), off-road vehicle driving (7 percent growth), and hunting (minus 2 percent growth) (Cordell 1999, p. 349).

With respect to annual **primary-purpose trips**, the five fastest growing outdoor recreation activities through the year 2050 are expected to be: downhill skiing (122 percent growth), biking (116 percent growth), snowmobiling (110 percent growth), sightseeing (98 percent growth), and developed camping (80 percent growth). The five slowest growth activity areas as measured by primary-purpose trips are expected to be: hunting (6 percent growth), primitive camping (0 percent growth), off-road vehicle driving (minus 22 percent growth), family gatherings (minus 25 percent growth), and picnicking (minus 45 percent growth).

Lastly, the report summarized the five fastest and slowest growing outdoor recreation activities through the year 2050 as measured by the **number of participants**. The five fastest growing relative to numbers of participants are expected to be: cross-country skiing (95 percent growth), downhill skiing (93 percent growth), visiting historic places (76 percent growth), sightseeing (71 percent growth), and biking (70 percent growth). Subsequently, the five slowest growing outdoor recreation activities measured by number of participants are expected to be: rafting (26 percent growth), backpacking (26 percent growth), off-road vehicle driving (16 percent growth), primitive camping (10 percent growth), and hunting (minus 11 percent growth) (Cordell 1999, p. 349).

Overall **days spent** and **numbers of participants** in winter, water-based, and developed land-based activities will, in general, grow faster than the population (Cordell 1999, p. 349). Along with other dispersed land-based activities, hunting and fishing (consumptive use activities), are not expected to increase in both activity days and participation numbers as fast as population growth, with the exception of non-consumptive wildlife activities (both developed and dispersed).

For the Southern Region analysis which included North Carolina and South Carolina, Progress Energy examined activities by participant levels. The projected change in various recreational activities for the South region is summarized below in Table 1.

Table 1 Baseline (1995) and projected participation (population 16 years and older) Southern Region-2000 to 2050.

| Activities Occurring or Likely to occur at Lake Tillery/Blewett Falls Lake | Estimated No. of Participants (Millions) | | | | | | |
|---|--|------|------|------|------|------|------|
| | 1995 ¹ | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 |
| Canoeing | 4.20 | 1.03 | 1.07 | 1.11 | 1.16 | 1.23 | 1.34 |
| Motorboating | 15.50 | 1.04 | 1.13 | 1.24 | 1.33 | 1.45 | 1.59 |
| Non-pool swimming | 23.30 | 1.05 | 1.15 | 1.27 | 1.37 | 1.50 | 1.64 |
| Visiting Beach or waterside | 37.70 | 1.07 | 1.20 | 1.30 | 1.48 | 1.62 | 1.76 |
| Fishing | 20.20 | 1.04 | 1.11 | 1.19 | 1.24 | 1.31 | 1.38 |
| Hunting | 6.50 | 0.93 | 0.82 | 0.74 | 0.68 | 0.65 | 0.64 |
| Non-consumptive Wildlife Activity ² | 34.20 | 1.07 | 1.22 | 1.38 | 1.54 | 1.71 | 1.86 |
| Hiking | 11.30 | 1.05 | 1.17 | 1.32 | 1.45 | 1.61 | 1.78 |
| Primitive camping | 8.00 | 0.98 | 0.98 | 1.01 | 0.98 | 0.99 | 1.02 |
| Developed camping | 10.70 | 1.06 | 1.22 | 1.34 | 1.58 | 1.77 | 1.97 |
| Family gathering | 37.00 | 1.07 | 1.20 | 1.34 | 1.48 | 1.62 | 1.76 |
| Picnicking | 27.40 | 1.06 | 1.21 | 1.38 | 1.52 | 1.67 | 1.80 |
| Sightseeing | 33.90 | 1.08 | 1.25 | 1.43 | 1.61 | 1.79 | 1.96 |
| Walking | 40.00 | 1.03 | 1.07 | 1.11 | 1.16 | 1.23 | 1.34 |

¹ The 1995 baseline total for millions of participants.

² Non-consumptive wildlife activities included bird watching, photography, and other forms of wildlife viewing.
Source: Cordell 1999.

North Carolina Outdoor Recreation Plan

The Licensee reviewed the North Carolina Outdoor Recreation Plan (NCORP 2003-2008) prepared by the Division of Parks and Recreation to acquire information about recreation demand within the state. According to the NCORP, the population of North Carolina will grow approximately 18 percent from 8.05 million in 2000 to over 9.47 million by 2010. The median age in 2000 was 35.3 years, and this is expected to rise in the next decade as baby-boomers hit age 65.

Results of the North Carolina Outdoor Recreation Participation Survey (NCORPS) indicated that the most popular outdoor recreation activities in North Carolina can generally be: 1) enjoyed at a relatively low cost; 2) require limited physical exertion; and 3) require little in the way of expensive equipment or special skills. The most popular activities were focused on viewing and learning, and therefore can be enjoyed by almost anyone. Table 2 identifies North Carolina's top 15 outdoor recreation activities.

Table 2 Popular outdoor recreational activities in North Carolina.

| Rank | Activity | Percentage of Households Participating |
|------|---|--|
| 1 | Walking for pleasure | 75 |
| 2 | Driving for pleasure | 72 |
| 3 | Viewing scenery | 71 |
| 4 | Beach activities | 69 |
| 5 | Visiting historical sites | 62 |
| 6 | Swimming (in lakes, rivers, and oceans) | 54 |
| 7 | Visiting natural areas | 53 |
| 8 | Picnicking | 52 |
| 9 | Attending sports events | 52 |

| Rank | Activity | Percentage of Households Participating |
|------|-----------------------------------|--|
| 10 | Visiting zoos | 51 |
| 11 | Fishing – freshwater | 50 |
| 12 | Use of open areas | 41 |
| 13 | Swimming (in pools) | 40 |
| 14 | Fishing – saltwater | 38 |
| 15 | Attending outdoor cultural events | 35 |

Source: NCORP 2003-2008.

According to the NCORP, recreation activities rated as having ‘high’ future demand were: walking for pleasure, freshwater fishing, beach activities, tent or vehicle camping, bicycling for pleasure, picnicking, swimming in pools, and attending outdoor cultural events. Activities rated as having ‘high’ support for public funding were: walking for pleasure, tent and vehicle camping, picnicking, visiting historical sites, freshwater fishing, visiting natural areas, beach activities, visiting zoos, using play equipment, and attending outdoor cultural events.

With respect to the relationship between age and activities, fitness activities; activities involving small children, and water-oriented activities were more frequently participated in by younger respondents (25 to 44 years old) and included bicycling, jogging or running, use of play equipment, and swimming in lakes, rivers, and oceans. Respondents 55 years old and above participated more frequently in physically passive activities, including walking for pleasure, tent or vehicle camping, nature study, power boating, and salt water fishing.

According to NCORP, the demand for outdoor recreation areas and facilities has increased with the increase in the proportion of citizens participating in outdoor recreation activities. In 1982/83, 89 percent of people age 16 and over participated in at least one activity. This increased to 97.6 percent in 1999/2000. It is anticipated that future growth in demand will come from population growth and increased frequency of participation, particularly from the over-60 population. The NCORP also identified five categories of major park and recreation issues that need to be addressed in North Carolina over the next five years. These issues are listed in Table 3.

Table 3 Pertinent categories of issues included in the NCORP.

| Category | Issues |
|--|---|
| 1 Improved Outdoor Recreational Services - The need to provide improved outdoor recreational services to meet the needs of a growing and changing population. | <ul style="list-style-type: none"> ■ Need for adequate staffing for park areas ■ Dwindling open space for recreational use ■ Deteriorating park and recreation facilities ■ Need to keep parks safe and clean ■ Provide additional recreational programs and facilities ■ Assess demographics and public demands ■ Increasing liability insurance costs ■ Depreciative behavior ■ Greater public accessibility |
| 2 Conservation of Natural Resources - The need to conserve and protect important natural resources and open spaces in a rapidly developing state. | <ul style="list-style-type: none"> ■ Expanded protection of important natural resources ■ Deterioration of park resources due to overuse ■ Resource degradation caused by increased development ■ Outdoor recreation in appropriate settings ■ More interpretation and education programs |
| 3 Funding - The need to ensure a stable and adequate source of funding to provide for the outdoor recreation needs of current and future generations. | <ul style="list-style-type: none"> ■ Federal Land and Water Conservation Fund (LWCF) funding ■ North Carolina has created several dedicated funds ■ Natural Heritage Trust Fund (NHTF) ■ Parks and Recreation Trust Fund (PRTF) ■ Clean Water Management Trust Fund (CWMTF) |

| Category | Issues |
|--|--|
| 4 Partnerships - The need to create effective partnerships between all parties interested in outdoor recreation so they may pursue common interests more effectively. | <ul style="list-style-type: none"> ■ Increasing awareness and appreciation <ul style="list-style-type: none"> - North Carolina’s Outdoor Heritage - The benefits of outdoor recreation - Education - Role of the State Parks System - Park information - Advocates and partners ■ Public/private cooperation to expand recreational opportunities ■ Coordination among public providers ■ Use of volunteers |
| 5 The State Parks System - The need to improve the North Carolina state parks system. | <ul style="list-style-type: none"> ■ System-wide plan for the state parks system |

Source: NCORP 2003-2008.

Comprehensive Wildlife Conservation Strategy

The North Carolina Wildlife Diversity Plan (2005) provides a broad overview of the needs and direction of conservation education and recreation for the North Carolina Wildlife Resources Commission (NCWRC). It identifies both conservation education priorities and recreation priorities as listed in Tables 4 and 5.

Table 4 North Carolina Wildlife Resources Conservation education priorities.

| | |
|--------------------------------|--|
| Wildlife Nature Centers | <ul style="list-style-type: none"> ■ Develop Commission-owned wildlife nature centers in each physiographic region and support projects at existing centers. ■ Develop materials and traveling displays for use across the state at schools, universities, science museums and aquariums to increase awareness of wildlife concerns. |
| Wildlife Education Programs | <ul style="list-style-type: none"> ■ Improve the Commission’s capabilities to provide instructor training in Project Wild and CATCH and coordinate support for other state environmental awareness programs. ■ Develop and improve guides for construction/development of outdoor classrooms. ■ Develop demonstration projects for wildlife education programs. |
| Wildlife Educational Materials | <ul style="list-style-type: none"> ■ Develop and distribute wildlife educational materials to the public school systems. ■ Develop public informational materials on wildlife species, management programs, and habitat conservation. |
| Wildlife Education Grants | <ul style="list-style-type: none"> ■ Encourage development of educational materials and programs on fish and wildlife through an annual Wildlife Education Grants program. |

Source: Comprehensive Wildlife Conservation Strategy.

Table 5 North Carolina Wildlife Resources recreation priorities.

| | |
|--------------------|---|
| Watchable Wildlife | <ul style="list-style-type: none"> ■ Promote the North Carolina Watchable Wildlife Viewing Program through development of highway map guides and informational materials for significant public sites. ■ Develop guides, informational materials, and workshops on wildlife photography. ■ Develop structures and stations for fish and wildlife viewing and photography. ■ Encourage commercial guided trips through development of training programs and informational materials. |
|--------------------|---|

| | |
|----------------------------|--|
| Paddling | <ul style="list-style-type: none"> ■ Develop and maintain canoe, kayak, and whitewater paddling access points. ■ Develop and maintain marked canoe trails along major streams and rivers. ■ Encourage commercial guided trips through development of wildlife training programs and informational materials. |
| Hiking | <ul style="list-style-type: none"> ■ Support and assist with maintenance to the State Trails and Rails to Trails systems. ■ Develop and maintain hiking trails on state-owned game lands. |
| Camping | <ul style="list-style-type: none"> ■ Develop and maintain hiking trails and viewing sites associated with state-maintained camp grounds, picnicking areas, and visitor centers. ■ Develop wildlife-related displays and educational materials at state-owned campgrounds, picnicking areas, and visitor centers. ■ Produce wildlife-related educational programs at state-owned campgrounds, picnicking areas, and visitor centers. |
| Birding | <ul style="list-style-type: none"> ■ Develop and maintain Coastal, Piedmont, and Mountain Birding trails development projects. ■ Assist with the organization, promotion, and operation of local Birding Festivals. ■ Develop Birding Guides to North Carolina species and Birding Lists for significant public-owned properties. |
| Diving | <ul style="list-style-type: none"> ■ Develop guides and materials for recreational diving. |
| Wildlife Recreation Grants | <ul style="list-style-type: none"> ■ Encourage development of fish and wildlife-related recreation programs through an annual Wildlife Recreation Grants program to promote nature tourism and wildlife viewing. |

Source: Comprehensive Wildlife Conservation Strategy.

1998 North Carolina State Trail and Greenway Survey

In 1998, a study was conducted to provide information necessary for planning and developing trails and greenways across North Carolina. Results of the study identified that:

- over 50 percent of all adult North Carolinians used or wanted to use a trail or greenway in the past 12 months;
- walking for pleasure is the most popular trail and greenway activity based on numbers participating (and annual participation rates), followed by hiking, bicycling, off-road vehicles, canoeing/kayaking, and horseback riding;
- nearly 75 percent felt it was important to have trails available in North Carolina;
- a majority felt that trails are important in providing aesthetic beauty, health and fitness, public recreation opportunities, undeveloped open space, public education about nature and the environment, community pride, and tourism and business development;
- trails and greenway use is expected to grow, since over three-quarters of those interviewed are planning to use a trail or greenway in the next five years;
- willingness to invest in trails is strong - North Carolinians, overall, reported that they are willing to pay for trail use (average, \$12 per year) because they value their trails and greenways highly;
- the estimated total direct expenditures made on trail-related trips in North Carolina were approximately \$91,883,000 annually and in-state residents reported that they spent approximately \$10 per day on their most recent trail trip;
- North Carolinians want more trails, and they would like the trails closer to their homes;
- there is a need for more adequate trail information from sources such as trail brochures, the internet, and parks and recreation offices; and
- there is a strong desire for better access to drinking water, restrooms and other trailside services.

Uwharrie National Forest - A Strategic View

Infrastructure changes are expected to impact Uwharrie users in the future — these changes may also impact users of other recreation facilities close to the Uwharrie National Forest. The infrastructure changes include (Uwharrie National Forest 2005):

- Highway 49 from Charlotte, North Carolina to Burlington, Virginia, which touches the edges of the proclamation boundary at Badin Lake on its way to Asheboro, has been identified by the state as a “North Carolina Strategic Corridor” in the next 10-year horizon. This means it is likely to be widened to four lanes of traffic.
- Interstate 73/74 which skims the eastern edge of the Uwharrie is expected to be extended south to connect to Interstate 95, making this extension a likely major travel route with possible associated secondary developments.
- Highway 52 that connects Salisbury to Albemarle and beyond is currently being four-laned. Although not within or touching the proclamation boundary, it may still serve to improve access to the forest.
- Widening of Highway 24/27 is in the initial planning stages.

Current recreation facilities and trails at Uwharrie National Forest:

- 50 miles of hiking trails;
- Badin Lake Horse trails - 40 miles;
- Cane Brake Horse Camp - 29 camp sites;
- Mountain Bike Trails - 16.6 miles in the Woodrun part of the district;
- 1 OHV Trail System - 16 miles;
- 2 developed picnic areas;
- Arrowhead Campground;
- Badin Lake Campground;
- Badin Lake Horsecamp - camping;
- East Morris Mountain - camping;
- Uwharrie Hunt Camp - camping;
- West Morris Mountain - camping; and
- Yates Place - camping.

Table 6 Popular activities within the Uwharrie National Forest market area.

| Activity | Percent Participation |
|---|-----------------------|
| Walk for pleasure | 83.8 |
| Family gathering | 74.2 |
| View/photograph natural scenery | 54.1 |
| Visit nature centers, nature, museums, etc. | 53.4 |
| Sightseeing | 52.7 |
| Driving for pleasure | 51.3 |
| Picnicking | 47.5 |
| Visit historic site | 44.5 |
| Bicycling | 31.8 |
| Boating | 30.7 |
| Motorboating | 22.6 |

Source: Uwharrie Conditions and Trends 2005.

Table 7 Uwharrie participation rate of growth in selected activities.

| Activity | Percent change in number of participants 1995-2001 |
|---|---|
| View or photograph fish | +79.8 |
| Drive off-road | +76.2 |
| View wildlife | +49.6 |
| Warm water fishing | +43.4 |
| View birds | +28.8 |
| Swimming in streams, lakes, ponds, or the ocean | +16.9 |
| Horseback riding | +16.7 |
| Horseback riding on trails | +12.1 |
| Day hiking | +10.2 |
| Primitive camping | +3.0 |
| Developed camping | -1.2 |
| Small game hunting | -10.1 |
| Big game hunting | -11.1 |
| Backpacking | -25.3 |

Source: Uwharrie Conditions and Trends 2005.

North Carolina Central Park: Assessing Tourism and Outdoor Recreation in the Uwharrie Lakes Region (September 1999).

This report contains the results of an inventory of seven counties (Davidson, Rowan, Randolph, Stanly, Troy, Anson, and Richmond). The inventory includes a description of the region, natural resources, cultural resources, outdoor recreation resources, destination attractions, and infrastructure (pg. 3).

Results indicated that urban consumers were most likely to do weekend trips or mini vacations — with strong consumer support outdoor recreation and the “central park concept”, yielding a large urban market less than a two-hour drive from the region. The report also indicated that ‘baby boomers’ will be the most significant target market for the central park concept, with travel and active lifestyle remaining important. Findings also suggest a significant interest in second homes or retirement homes in the region, due the clean environment, culture, and affordability. Report findings indicate a strong consumer interest in nature-based tourism, outdoor recreation, agritourism, and festivals. The report also offers suggestions to enhance the region and meet consumer demand, these include: provide more resources to fund and improve existing attractions, parks and open spaces; expansion of hospitality services including lodging, food service outlets, and shopping (including the sale of recreational equipment); market driving and sightseeing tours of scenic natural areas; and, expand festival and concert events in the region (pg. 24).

Summary of Population Trends

■ **Justification for Selected Counties**

Recreation research has shown that demographic factors such as age, race or ethnicity, gender, income, education, and previous experience influence recreation behavior (Bowker et al. 1999). While all these factors play a role in estimating recreation participation, Bowker et al. (1999) state that the greatest changes taking place in the next 50 years are increases in population and real income. To assist in the understanding of visitors to Lake Tillery and Blewett Falls Lake, state trends are reported by the North Carolina Department of Finance below, which have also been reported on national and regional levels specifically relative to recreation.

The State of North Carolina Department of Finance reports demographic information at state and county levels. Based on the visitor surveys performed by Progress Energy in 2004 to 2005, the majority of people who visit the Project area were residents of North Carolina. Additionally, the survey results indicated that the majority of visitors surveyed at Lake Tillery reside in Stanly (28 percent) or Montgomery (15 percent) Counties (Tables 8 and 9). For Blewett Falls Lake, the majority of visitors surveyed reside in Richmond (51 percent) or Anson Counties (18 percent). Therefore, projected population growth for the entire state as well as these counties is relevant to the discussion of projected recreation demand in the region.

Table 8 Summary of Lake Tillery visitor's primary residence 2004 to 2005.

| Location of Origin | Count | Percent % |
|---------------------------|--------------|------------------|
| Stanly County | 343 | 28.4 |
| Montgomery County | 179 | 14.8 |
| Cabarrus County | 87 | 7.2 |
| Mecklenburg County | 82 | 6.8 |
| Union County | 66 | 5.5 |
| Other NC County | 372 | 30.8 |
| Out of State | 30 | 2.5 |
| Did not address | 50 | 4.1 |
| Total | 1,209 | 100.0 |

Table 9 Summary of Blewett Falls Lake visitor's primary residence 2004 to 2005.

| Location of Origin | Count | Percent % |
|---------------------------|--------------|------------------|
| Richmond County | 361 | 50.8 |
| Anson County | 125 | 17.6 |
| Scotland County | 45 | 6.3 |
| Union County | 31 | 4.4 |
| Montgomery County | 21 | 3.0 |
| Other NC County | 67 | 9.4 |
| Out of State | 17 | 2.4 |
| Did not Address | 44 | 6.2 |
| Total | 711 | 100.0 |

Population Projections for Primary Resident Counties

Between April 2000 and April 2030, North Carolina's population is expected to grow by 4 million people (50 percent), reaching 12.1 million by the end of the 30-year period. Over 61 percent of this growth, 2.5 million people, will be the result of net migration into the state¹. Based on the counties most often reflected by Lake Tillery and Blewett Falls Lake visitors, county growth projections for 2000 to 2010 and 2010 to 2020 are included (Tables 8 and 9). For Lake Tillery visitors, Stanly (28 percent), Montgomery (15 percent), Cabarrus (7 percent), Mecklenburg (7 percent), and Union (5 percent) were the top five counties respondents identified as their primary county of residence. For Blewett Falls Lake, the top five counties respondents identified as their primary residence included Richmond (51 percent), Anson (18 percent), Scotland (6 percent), Union (4 percent), and Montgomery (3 percent). Projected growth rates for these counties are provided in Table 10.

¹ North Carolina State Demographics (retrieved September 5, 2005, <http://demog.state.nc.us/>).

Table 10 Projected growth rates for counties of residence by visitors to Lake Tillery.

| Lake Tillery Visitor’s Top Five Counties of Residence | 2000-2010 | 2010-2020 |
|---|------------------|------------------|
| Stanly (28% of visitors) | 6.2% | 7.7% |
| Montgomery (15% of visitors) | 5.9% | 8.2% |
| Cabarrus (7% of visitors) | 28.7% | 24% |
| Mecklenburg (7% of visitors) | 27% | 23% |
| Union (5% of visitors) | 49% | 32% |
| Blewett Falls Lake Visitors Top Five Counties of Residence | 2000-2010 | 2010-2020 |
| Richmond (51% of visitors) | .2% | .6% |
| Anson (18% of visitors) | 4.8% | 4.4% |
| Scotland (6% of visitors) | 5.2% | 3.4% |
| Union (4% of visitors) | 49.1% | 32% |
| Montgomery (3% of visitors) | 5.9% | 8.2% |

Source: North Carolina State Demographics.

3.0 Summary of Project-Related Recreation Opportunities

Lake Tillery

Visitors to Lake Tillery are primarily repeat visitors and day trippers. The majority of respondents visiting Lake Tillery have visited the lake previously. Most respondents visited more than six times per year, with just over one-third visiting one to five times per year. Respondents (n=1201) were generally repeat visitors to each access location. Norwood Access respondents reported a high frequency of visitation, with a majority visiting over 11 times per year; the majority of Stony Mountain Access visitors reported over six times per year, similar to Swift Island Access, Lilly’s Bridge, Tillery Access, Tillery Canoe Portage, and the Informal Access Area visitation; Morrow Mountain State Park was different from all the other locations, with the majority of respondents reporting visitation between one to five visits. Stony Mountain Access, Swift Island Access, Lilly’s Bridge Access, Tillery Canoe Portage, and the Informal Access Area visitors follow a similar consistent pattern of 15 to 20 percent of visitors reporting across the one to five to 21 to 50 visitation ranges.

In 2004 to 2005, slightly over half of the respondents identified spending between one and four hours at Lake Tillery (54 percent). Thirty-seven percent identified spending four to eight hours, and 9 percent identified spending more than eight hours at the Lake. Fourteen percent of respondents spent one or more nights at Lake Tillery. Of those people spending at least one night, 38 percent of the respondents spent one night, 34 percent spent two nights, and 15 percent spent three nights.

In summary, visitors to Lake Tillery generally utilize day-use facilities and are repeat visitors. Of those surveyed, only 14 percent spent at least one or more nights at Lake Tillery, with a majority of those spending one to three nights maximum.

■ **Recreation Activities at Lake Tillery**

Visitors to Lake Tillery enjoy a range of activities from boat fishing to camping, wildlife viewing to hiking, and other water related opportunities. Of those surveyed by Progress Energy during 2004 to 2005, 37 percent of respondents identified boat fishing as their primary recreational activity or reason for visiting Lake Tillery. Bank fishing was second (30 percent), followed by motor boating (15 percent). Boat fishing was reported most frequently by respondents at Swift Island and Lilly’s Bridge Access Areas. For bank fishing, respondents from the Informal Access area reported the

highest number, while Swift Island Access was the most frequently mentioned area for motor boating. The next most frequently mentioned primary activity was camping (6 percent), followed closely by hiking (5 percent), jet skiing (4 percent), picnicking (4 percent), and swimming (4 percent). Hunting, sightseeing, river canoeing and sunbathing were identified as being the least common primary recreation activities or reasons for visiting Lake Tillery, each being identified by less than 1 percent of the respondents.

■ Participation Rates

Respondents were consistent with previously reported primary activities and activities participated in over last 12 months, with boat fishing (34 percent) as the most frequently identified, followed by bank fishing (31 percent), and motor boating (13 percent). Swift Island and Norwood Access Areas, has the highest number of respondents reporting boat fishing activity, and the largest number of respondents reporting bank fishing were from the Informal Access area. The majority of Respondents reporting motor boating and swimming came from Swift Island Access. Hunting was the least identified recreation activity, with only 0.1 percent of respondents identifying participating in hunting on the day they were interviewed.

Other activities that were identified by respondents as being participated in or were going to be participated in at Lake Tillery were:

- Bass tournament
- Bike riding
- Attending Church
- Dog swimming/training/walking
- Duck hunting
- Enjoying peace and quiet/relaxing
- Kayaking
- Sightseeing, enjoying scenery
- Motorcycling
- Pick up rocks for geology lesson
- Tubing
- Water fireworks

■ Night Time Activities

Night time activities were popular with approximately half (49 percent) of all respondents (n=1081) at Lake Tillery, and at all access points to the Lake. Night time activities were reported by 50 percent or higher of respondents at Norwood, Stony Mountain, Swift Island, and Tillery Access Areas. Respondents reported 42 to 47 percent participation in night time activities at Lilly's Bridge, Tillery Canoe Portage, and the Informal Access Areas. Additionally, the types of activities engaged in during the night time by respondents included boat fishing, bank fishing and camping. Boat fishing was mentioned by the majority of respondents from Norwood (78 percent), Stony Mountain (34 percent), Swift Island (56 percent), and Lilly's Bridge (50 percent); bank fishing was mentioned by the majority of respondents at Tillery Access (84 percent), Tillery Canoe Portage (68 percent), and the Informal Access Area (58 percent). Camping was the second most popular night time activity for respondents located at Tillery Access and the Tillery Canoe Portage, and third for respondents located at the Stony Mountain Access Area.

Blewett Falls Lake

■ **Recreation Activities at Blewett Falls Lake**

Similar to Lake Tillery, of those surveyed by Progress Energy, bank fishing (41 percent), followed closely by boat fishing (40 percent) and motor boating (11 percent), were the primary activities identified most frequently by visitors to Blewett Falls Lake. Specifically, bank fishing was reported most frequently by respondents at the Blewett Tailwater Access Area and Informal Tailrace Access Site. For boat fishing, respondents from Pee Dee and Grassy Islands Access Areas reported the highest frequency, while Pee Dee Access Area was the most frequently mentioned area for motor boating. The next most frequently mentioned primary activity was swimming (8 percent), followed closely by camping (7 percent), picnicking (5 percent), and wildlife viewing, and jet skiing and sunbathing (4 percent).

Hunting and water skiing were identified by 3 percent of respondents, and hiking by 1 percent of respondents, river canoeing and lake canoeing were identified as the least common primary recreation activities or reasons for visiting Blewett Falls Lake, identified by less than 1 percent of the respondents.

When asked about activities participated in during the past 12 months, again, boat fishing, bank fishing, and motor boating were the most common recreational activities identified by respondents. Other activities that were identified by respondents as being participated in or were going to be participated in at Blewett Falls Lake were:

- Fun
- Motorcycling
- Relaxing
- Riding around
- Visiting family

■ **Night Time Activities**

More than half (59 percent) of all respondents (n=615) at Blewett Falls Lake participated in night time activities. Night time activities are popular at all access areas surveyed, with 50 percent or higher of respondents reporting participating in night time activities at all access areas at Blewett Falls Lake. Informal SR 1744 and Grassy Islands Access Areas reported the greatest number of respondents participating in night time activities, with 73 percent and 69 percent of all respondents respectively. As with Lake Tillery, the types of activities most popular by respondents at night at Blewett Falls Lake were boat fishing (54 percent), bank fishing (50 percent) and camping (35 percent).

4.0 Summary of Recreation Issues for Lake Tillery

Overall, the majority of respondents on Lake Tillery (67 percent) did not experience conditions that interfered with their recreation experience. However, for those that did say they experienced conditions that interfered with their recreation experience (33 percent), each individual access was

assessed and the results expressed evaluate each access area by level of concern by respondents for crowded conditions, limited access, trash and litter, and lake water levels.

To understand facility capacity at each access area, spot counts were utilized to calculate the maximum number of vehicles per weekend day, week day, and holiday for each access area by month. The results of these spot counts indicate that public access areas in general reach their maximum capacity during very specific times of year. Generally, estimates were calculated based on dimensions of an access parking area and that a vehicle with a boat trailer took up two to three times more space than an individual vehicle. Therefore, the capacity for vehicles with boat trailers was less than the capacity for individual vehicles. The number of vehicles and vehicles with boat trailers at each facility was counted on random days, three times per day over the course of 12 months. These values were averaged and used to calculate the percent of capacity reached at each facility. In order to obtain an estimate measurement of facility capacity reached, the number of vehicles with boat trailers was multiplied by the ratio of vehicles to vehicles with boat trailers actually calculated for the area under study. For example, if vehicle capacity at a facility is 100, and vehicle with boat trailer capacity is 50, the ratio between the two vehicles capacities is 2:1. Continuing with the example, if there were five individual vehicles at the facility and 10 vehicles with boat trailers, the number of vehicles with boat trailers (10) was multiplied by two and this value was added to the number of individual vehicles (5) to get a total use value of 25. Therefore, capacity reached at the facility was 25 percent (if vehicle capacity = 100), as opposed to 15 percent if the ratio between the facility capacities for the two vehicles was not taken into consideration.

The estimated facility capacity was reached or exceeded at some access areas during the spring and summer seasons. For Lake Tillery, Norwood Access Area reached over 100 percent capacity during one weekend day in April; two weekend days in June; and on the July 4 holiday. Stony Mountain Access Area reached over 100 percent capacity during one April fishing weekend day; the Informal Access Area reached over 100 percent capacity during one October weekday (Table 136).

For Blewett Falls Lake, facility capacity levels on an annual basis were rarely reached or exceeded. Generally, the majority of the access areas experienced increased visitation during April fishing weekends, Memorial Day weekend in May, July weekdays and the 4th of July holiday. Specifically, Grassy Islands Access Area exceeded capacity during two April fishing weekend days, the Memorial Day weekend day (31st), and one July weekday. The Blewett Falls Canoe Portage Access also exceeded facility capacity during one weekday in April and on Memorial Day. The Informal SR 1744 Access Area exceeded facility capacity during one April weekday and approached capacity during one weekend day in May; and facilities approached reaching capacity during the April and June weekends, and throughout July. The Pee Dee Access Area exceeded capacity on two April fishing weekends; during two weekend days in May; one weekend day in June; one weekend day in August; and twice in July, the 4th holiday, and one weekend day. With these exceptions, access areas at Blewett Falls Lake rarely neared their current facility capacity levels (Table 137).

Norwood Access

The access at Norwood is a gravel parking lot with 100 spaces for vehicle parking and 75 spaces for vehicle with boat trailer parking. The boat ramp is two lanes with a wooden dock that can accommodate up to three boats at a time. The shoreline around the cove provides access to bank fishing and is in fair condition. All other facilities were identified as in good condition.

■ **Conditions Interfering with Experience**

Of those that responded to whether or not they experienced conditions that interfered with their recreation experience (n=109), a majority of respondents surveyed (64 percent; n=70) did not experience conditions that interfered with their recreation experience. With respect to crowded conditions, 26 respondents expressed some level of concern, with a majority (54 percent; n=14) expressing a low level of concern overall. Limited access, again of the small percentage that did respond, 70 percent had a low level of concern for limited access. Regarding trash and litter, of those responding, a majority (78 percent; n=28) did have medium to high concern with improper disposal of litter or trash. Thirty-six respondents addressed their level of concern for water levels at Lake Tillery. Of those, 25 percent (n=9) had a low level of concern, 36 percent (n=13) had a medium level of concern, and 39 percent (n=14) had a high level of concern.

■ **Adequacy of Facilities**

In response to facilities identified as ‘not adequate’, respondents expressed the need for toilets at the ramp area, handicap access for parking and pier access, upgraded dock (worn and nails sticking up), lessen the gradient on the boat ramp, and a fishing pier. Trash was also identified as a significant problem. With respect to safety concerns, respondents suggested more buoys and signage to warn of the no-wake zone, and distance from the shoreline, which affects bank fishing (Table 24).

■ **Activities or Services Currently Not Available**

Respondents at this access commented primarily on the need for additional services and some facility improvements, including toilets at the access, lights in the parking lot, dock repairs, an additional dock, benches and picnic tables, vending machines when marinas are closed, and a public camping area (Table 24).

■ **Facility Capacity**

The Norwood access exceeded facility capacity levels with respect to vehicle and vehicle with boat trailer parking on three occasions, these being fishing weekend in April (143 percent), weekend in June (113 percent), and 4th of July holiday (130 percent). Table 11 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Norwood reaches above 50 percent capacity during July weekend (63 percent) and August weekend (59 percent), and almost 50 percent capacity Labor Day holiday in September. The rest of the year, facility capacity at Norwood is below 50 percent.

Table 11 Norwood facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 90 | 50 | 3 | 3 | 9.3 |
| | WE | 90 | 50 | 7 | 6 | 19.8 |
| Feb 05 | WD | 90 | 50 | 3 | 3 | 9.3 |
| | WE | 90 | 50 | 8 | 7 | 22.9 |
| Mar 05 | WD | 90 | 50 | 7 | 6 | 19.8 |
| | WE | 90 | 50 | 12 | 11 | 35.3 |

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Apr 04 | WD | 90 | 50 | 11 | 10 | 32.2 |
| | WE | 90 | 50 | 48 | 45 | 143.3 ¹ |
| May 04 | WD | 90 | 50 | 10 | 9 | 29.1 |
| | WE | 90 | 50 | 14 | 13 | 41.6 |
| | Hol | 90 | 50 | 17 | 15 | 48.9 |
| Jun 04 | WD | 90 | 50 | 11 | 8 | 28.2 |
| | WE | 90 | 50 | 39 | 35 | 113.3 ² |
| Jul 04 | WD | 90 | 50 | 11 | 11 | 34.2 |
| | WE | 90 | 50 | 24 | 18 | 62.7 |
| | Hol | 90 | 50 | 52 | 36 | 129.8 ³ |
| Aug 04 | WD | 90 | 50 | 8 | 6 | 20.9 |
| | WE | 90 | 50 | 21 | 18 | 59.3 |
| Sep 04 | WD | 90 | 50 | 7 | 6 | 19.8 |
| | WE | 90 | 50 | 13 | 11 | 36.4 |
| | Hol | 90 | 50 | 14 | 14 | 43.6 |
| Oct 04 | WD | 90 | 50 | 9 | 9 | 28.0 |
| | WE | 90 | 50 | 14 | 13 | 41.6 |
| Nov 04 | WD | 90 | 50 | 6 | 6 | 18.7 |
| | WE | 90 | 50 | 11 | 10 | 32.2 |
| Dec 04 | WD | 90 | 50 | 5 | 4 | 13.6 |
| | WE | 90 | 50 | 4 | 4 | 12.4 |

¹ Facility capacity was exceeded on April 24.

² Facility capacity was exceeded on June 05 and June 19.

³ Facility capacity was exceeded on July 04 Holiday.

Stony Mountain Access

The Stony Mountain Access has a two-lane paved boat ramp facility in good condition, with a wooden dock that can accommodate up to three boats. Bank fishing access is in fair condition, with excessive litter sighted as a primary problem. There are primitive campground facilities which accommodate 5 to 10 sites and are in poor condition with excessive litter. The multi-use trail is also reported to be in good condition with the exception of excessive littering.

■ Conditions Interfering with Experience

In general, of the 75 respondents surveyed at Stony Mtn. access, a majority (59) said that there were conditions that interfered with their recreation experience. The level of concern for crowding at Stony Mtn. access was low overall. Of the 26 respondents expressing a concern for level of crowding, a majority (73; n=19) expressed a low level of concern, with some (19; n=5) expressing a medium level of concern, and even less expressing a high level of concern (8; n=2). Limited access, again of the small percentage that did respond (n=26), 81 had a low level of concern for limited access. Regarding trash and litter, of those responding, a majority had medium to high concern with improper disposal of litter or trash (76). Twenty-eight respondents expressed some level of concern for water levels, of which 50 (n=14) were low; 21 (n=6) were medium; and 29 (n=8) were high.

■ Adequacy of Facilities

Respondents to this access area suggested a need for a toilet facility, campground and information on where camping was and was not allowed, a fishing pier and trash cans to improve facilities at this access point (Table 24).

■ Activities or Services Currently Not Available

Respondents suggested a need for waste receptacles, shoreline maintenance, docks for bank anglers, a place to eat, increased law enforcement and security for both water-based activities such as jet skis getting too close to shore, going into restricted areas, and land-based enforcement to reduce vandalism and theft, and restaurant and rental area at Cook's marina (Table 24).

■ Facility Capacity

Stony Mountain access exceeded facility capacity levels with respect to vehicle and vehicle with boat trailer parking during April fishing weekend (110 percent). Table 12 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Stony Mountain reaches greater than 50 percent capacity on July weekend (84 percent), with the rest of the year reaching less than 50 percent of facility capacity.

Table 12 Stony Mountain facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 150 | 60 | 5 | 4 | 10.0 |
| | WE | 150 | 60 | 3 | 2 | 5.3 |
| Feb 05 | WD | 150 | 60 | 0 | 0 | 0.0 |
| | WE | 150 | 60 | 4 | 3 | 7.7 |
| Mar 05 | WD | 150 | 60 | 1 | 1 | 2.3 |
| | WE | 150 | 60 | 8 | 6 | 15.3 |
| Apr 04 | WD | 150 | 60 | 8 | 3 | 10.3 |
| | WE | 150 | 60 | 52 | 45 | 109.7 ¹ |
| May 04 | WD | 150 | 60 | 5 | 3 | 8.3 |
| | WE | 150 | 60 | 5 | 4 | 10.0 |
| | Hol | 150 | 60 | 10 | 7 | 18.3 |
| Jun 04 | WD | 150 | 60 | 7 | 5 | 13.0 |
| | WE | 150 | 60 | 17 | 13 | 33.0 |
| Jul 04 | WD | 150 | 60 | 7 | 3 | 9.7 |
| | WE | 150 | 60 | 38 | 35 | 83.7 |
| | Hol | 150 | 60 | 26 | 14 | 40.7 |
| Aug 04 | WD | 150 | 60 | 3 | 3 | 7.0 |
| | WE | 150 | 60 | 13 | 11 | 27.0 |
| Sep 04 | WD | 150 | 60 | 2 | 2 | 4.7 |
| | WE | 150 | 60 | 6 | 5 | 12.3 |
| | Hol | 150 | 60 | 7 | 4 | 11.3 |
| Oct 04 | WD | 150 | 60 | 3 | 2 | 5.3 |
| | WE | 150 | 60 | 6 | 3 | 9.0 |
| Nov 04 | WD | 150 | 60 | 2 | 2 | 4.7 |
| | WE | 150 | 60 | 2 | 2 | 4.7 |
| Dec 04 | WD | 150 | 60 | 1 | 1 | 2.3 |
| | WE | 150 | 60 | 1 | 1 | 2.3 |

¹ Facility capacity was approached on April 24 and exceeded on April 25.

Swift Island

The Swift Island Access has a four-lane paved boat ramp, wooden dock which can accommodate up to 8 to 10 boats, limited shoreline fishing, and gravel parking facilities. The parking and access facilities at Swift Island are generally in good condition.

■ **Conditions Interfering with Experience**

Of the 249 respondents answering whether the level of concern for conditions that interfered with their recreation experience at Swift Island access, the majority (65 percent; n=161) said 'no'. Of the 54 respondents expressing a concern for level of crowding, the majority were low and medium levels of concern (43 percent; n=23 for both), with some (15 percent; n=8) expressing a high level of concern. With respect to concern for limited access, again of the small percentage that did respond (n=47), 66 percent had a low level of concern, and 28 percent had a medium level of concern. Regarding trash and litter, of those responding, a majority had medium to high concern with improper disposal of litter or trash (63 percent; n=43). Sixty-four respondents expressed some level of concern for water levels, of which 33 percent (n=21) were low; 33 percent (n=21) were medium; and 34 percent (n=22) were high.

■ **Adequacy of Facilities**

Respondents to this access area suggested a need for a toilet facility, campground has too much trash, marked and identifiable parking area, signage on highway, improved access, public phone, beach area for families, a fishing pier, lighting increased at the parking area, and trash cans to improve facilities at this access point (Table 24).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included the provision of a toilet facility, trash receptacles, additional camp sites and potable water, managed parking (identifiable spaces), access for watchable wildlife, public food place/restaurants, increased law enforcement for land and water-based activities (including restrictions on jet skis), and swimming area or beaches (Table 24).

■ **Facility Capacity**

With respect to capacity, Swift Island does not exceed facility capacity levels with respect to vehicle and vehicle with boat trailer parking. Table 13 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Swift Island reaches the greatest capacity (65 percent) once a year on an April fishing weekend. The rest of the year is less than 50 percent of parking facility capacity.

Table 13 Swift Island facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|-------------------------------------|---------------|----------------------------------|-----------------------------|
| Jan 05 | WD | 600 | 240 | 2 | 2 | 1.2 |
| | WE | 600 | 240 | 6 | 5 | 3.1 |
| Feb 05 | WD | 600 | 240 | 4 | 4 | 2.3 |
| | WE | 600 | 240 | 7 | 7 | 4.1 |
| Mar 05 | WD | 600 | 240 | 6 | 6 | 3.5 |
| | WE | 600 | 240 | 31 | 26 | 16.0 |
| Apr 04 | WD | 600 | 240 | 11 | 10 | 6.0 |
| | WE | 600 | 240 | 122 | 107 | 64.9 |
| May 04 | WD | 600 | 240 | 45 | 39 | 23.8 |
| | WE | 600 | 240 | 58 | 50 | 30.5 |
| | Hol | 600 | 240 | 33 | 26 | 16.3 |
| Jun 04 | WD | 600 | 240 | 20 | 16 | 10.0 |
| | WE | 600 | 240 | 62 | 56 | 33.7 |
| Jul 04 | WD | 600 | 240 | 27 | 24 | 14.5 |
| | WE | 600 | 240 | 68 | 63 | 37.6 |
| | Hol | 600 | 240 | 100 | 65 | 43.8 |
| Aug 04 | WD | 600 | 240 | 8 | 7 | 4.3 |
| | WE | 600 | 240 | 63 | 46 | 29.7 |
| Sep 04 | WD | 600 | 240 | 5 | 5 | 2.9 |
| | WE | 600 | 240 | 30 | 24 | 15.0 |
| | Hol | 600 | 240 | 16 | 16 | 9.3 |
| Oct 04 | WD | 600 | 240 | 17 | 13 | 8.3 |
| | WE | 600 | 240 | 43 | 41 | 24.3 |
| Nov 04 | WD | 600 | 240 | 7 | 6 | 3.7 |
| | WE | 600 | 240 | 17 | 15 | 9.1 |
| Dec 04 | WD | 600 | 240 | 8 | 8 | 4.7 |
| | WE | 600 | 240 | 11 | 10 | 6.0 |

Lilly's Bridge Access

The Lilly's Bridge Access has a two-lane paved boat ramp, wooden dock which can accommodate up to six boats, limited shoreline fishing, an old bridge and pier, and gravel parking facilities. The parking and access facilities at Lilly's Bridge have all been rated as generally in good condition.

■ Conditions Interfering with Experience

Of the 197 respondents answering whether the level of concern for conditions that interfered with their recreation experience at Lilly's Bridge access, the majority (72 percent; n=141) said 'no'. Of the 36 respondents expressing a concern for level of crowding, the majority were low (58 percent, n=21) and medium (28 percent, n=10) levels of concern, with a minority (14 percent; n=5) expressing a high level of concern. With respect to concern for limited access, again of the small percentage that did respond (n=27), 89 percent had a low level of concern, and 7 percent (n=2) had a medium level of concern, and one respondent expressed a high level of concern. Regarding trash and litter, of those responding (n=35), 34 percent had a low level of concern, with 26 percent responding with medium level of concern, and 40 percent responding with high concern for the improper disposal of litter or trash. Thirty-three respondents expressed some level of concern for water levels, of which 58 percent (n=19) were low; 27 percent (n=9) were medium; and 15 percent (n=5) were high.

■ Adequacy of Facilities

Respondents to this access area suggested a need for a toilet facility, improved access to the fishing pier (currently dusty, etc. due to highway construction), signage to identify shoreline fishing, signage is for the fishing pier is hidden by construction; trash cans to improve facilities at this access point (Table 24).

■ Activities or Services Currently Not Available

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included improving the trash problem, perhaps providing additional trash receptacles; the provision of a toilet facility, additional camp sites and potable water, managed parking (identifiable spaces), better lighting around docks, parking, by posted rules, navigational buoys on Norwood side of the lake, playground for children at beach access, public food place/restaurants, increased law enforcement for land and water-based activities (including restrictions on jet skis), and swimming area or beaches (Table 24).

■ Facility Capacity

With respect to parking capacity, Lilly's Bridge access rarely approached facility capacity levels with respect to vehicle and vehicle with boat trailer parking. Table 14 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Lilly's Bridge access reaches the greatest capacity (83 percent) once a year on July 4 weekends. During April weekends, it is estimated that Lilly's Bridge reaches approximately 52 percent of capacity, with the rest of the year reaching less than 50 percent of parking facility capacity.

Table 14 Lilly's Bridge facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 200 | 80 | 6 | 6 | 10.5 |
| | WE | 200 | 80 | 3 | 2 | 4.0 |
| Feb 05 | WD | 200 | 80 | 7 | 6 | 11.0 |
| | WE | 200 | 80 | 6 | 5 | 9.3 |
| Mar 05 | WD | 200 | 80 | 5 | 3 | 6.3 |
| | WE | 200 | 80 | 13 | 11 | 20.3 |
| Apr 04 | WD | 200 | 80 | 6 | 6 | 10.5 |
| | WE | 200 | 80 | 31 | 29 | 51.8 |
| May 04 | WD | 200 | 80 | 10 | 8 | 15.0 |
| | WE | 200 | 80 | 18 | 16 | 29.0 |
| | Hol | 200 | 80 | 10 | 9 | 16.3 |
| Jun 04 | WD | 200 | 80 | 9 | 5 | 10.8 |
| | WE | 200 | 80 | 30 | 24 | 45.0 |
| Jul 04 | WD | 200 | 80 | 8 | 6 | 11.5 |
| | WE | 200 | 80 | 17 | 15 | 27.3 |
| | Hol | 200 | 80 | 51 | 46 | 83.0 |
| Aug 04 | WD | 200 | 80 | 5 | 4 | 7.5 |
| | WE | 200 | 80 | 12 | 8 | 16.0 |
| Sep 04 | WD | 200 | 80 | 5 | 4 | 7.5 |
| | WE | 200 | 80 | 8 | 7 | 12.8 |
| | Hol | 200 | 80 | 9 | 7 | 13.3 |

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Oct 04 | WD | 200 | 80 | 5 | 5 | 8.8 |
| | WE | 200 | 80 | 11 | 8 | 15.5 |
| Nov 04 | WD | 200 | 80 | 6 | 4 | 8.0 |
| | WE | 200 | 80 | 8 | 8 | 14.0 |
| Dec 04 | WD | 200 | 80 | 4 | 4 | 7.0 |
| | WE | 200 | 80 | 5 | 4 | 7.5 |

Tillery Access-SR 1740/1745

The Tillery Access has a one-lane primitive boat ramp rated in poor condition; shoreline access along a road, rated in fair condition with excessive litter; a small beach at low water, also rated as fair; two-lane access in good condition; and small gravel vehicle parking areas rated as fair with excessive litter.

■ **Conditions Interfering with Experience**

Of the 31 respondents answering whether the level of concern for conditions that interfered with their recreation experience at Lilly's Bridge access, 61 percent (n=19) said 'no'. Of the 12 respondents expressing a concern for level of crowding, 100 percent (n=12) had a low level of concern. With respect to concern for limited access, again of the small percentage that did respond (n=14), 57 percent had a low level of concern, and 36 percent (n=5) had a medium level of concern, and 1 respondent expressed a high level of concern. Regarding trash and litter, of those responding (n=5), 36 percent had a low level of concern, with 21 percent (n=3) responding with medium level of concern, and 43 percent (n=6) responding with high concern for the improper disposal of litter or trash. Fifteen respondents expressed some level of concern for water levels, of which 73 percent (n=11) were low; 13 percent (n=2) expressed medium and high levels of concern.

■ **Adequacy of Facilities**

Respondents to this access area suggested a need for a toilet facility, better signage to identify access, additional fishing piers and docks, and trash cans to improve facilities at this access point (Table 24).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included improving the trash problem, perhaps providing additional trash receptacles; the provision of a toilet facility; picnic tables, clean area for swimming; more pier access; trail markers that correspond with a map; and better access to the road and ramp (Table 24).

■ **Facility Capacity**

Tillery Access-SR 1740/1745 did not approach facility capacity levels with respect to vehicle and vehicle with boat trailer parking. Table 15 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, Tillery Access reached the greatest capacity (53 percent) during April weekends. June weekends were estimated at 37 percent capacity, October weekends

were estimated at 33 percent capacity, while during Memorial Day holiday, facility capacity reached 30 percent. The rest of the year reached less than 30 percent of parking facility capacity.

Table 15 Tillery Access-SR 1740/1745 facility capacity estimate.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 30 | 10 | 1 | 1 | 13.3% |
| | WE | 30 | 10 | 0 | 0 | 0.0 |
| Feb 05 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | WE | 30 | 10 | 1 | 0 | 3.3 |
| Mar 05 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | WE | 30 | 10 | 2 | 0 | 6.7 |
| Apr 04 | WD | 30 | 10 | 4 | 0 | 13.3 |
| | WE | 30 | 10 | 10 | 2 | 53.3 |
| May 04 | WD | 30 | 10 | 2 | 0 | 6.7 |
| | WE | 30 | 10 | 2 | 0 | 6.7 |
| | Hol | 30 | 10 | 6 | 1 | 30.0 |
| Jun 04 | WD | 30 | 10 | 2 | 1 | 16.7 |
| | WE | 30 | 10 | 5 | 2 | 36.7 |
| Jul 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | WE | 30 | 10 | 1 | 0 | 3.3 |
| | Hol | 30 | 10 | 3 | 1 | 20.0 |
| Aug 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | WE | 30 | 10 | 2 | 1 | 16.7 |
| Sep 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | WE | 30 | 10 | 1 | 0 | 3.3 |
| | Hol | 30 | 10 | 2 | 0 | 6.7 |
| Oct 04 | WD | 30 | 10 | 1 | 0 | 3.3 |
| | WE | 30 | 10 | 7 | 1 | 33.3 |
| Nov 04 | WD | 30 | 10 | 2 | 0 | 6.7 |
| | WE | 30 | 10 | 2 | 0 | 6.7 |
| Dec 04 | WD | 30 | 10 | 0 | 0 | 0.0 |
| | WE | 30 | 10 | 0 | 0 | 0.0 |

Tillery Canoe Portage Access

The Tillery Canoe Portage has a two-lane gravel road access in fair condition. There are clearings along shore that can accommodate 25 to 30 people, with some litter problems. The vehicle parking area is dirt and is in fair condition with some litter. The canoe portage to the tailrace is also in fair condition.

■ Conditions Interfering with Experience

Of the 36 respondents answering whether the level of concern for conditions that interfered with their recreation experience at the Tillery Canoe Portage access, 53 percent (n=19) said “yes”. Of the 14 respondents expressing a concern for level of crowding, 71 percent (n=10) had a low level of concern, with two persons each responding with a medium or high level of concern. With respect to concern for limited access, again of the small percentage that did respond (n=16), 56 percent had a low level of concern, and 38 percent (n=6) had a medium level of concern, and 1 respondent

expressed a high level of concern. Regarding trash and litter, of the 17 responding to this concern, 53 percent had a high level of concern, with 24 percent (n=4) each responding with medium and low levels of concern for improper disposal of litter and trash. Twelve respondents expressed some level of concern for water levels, of which 75 percent (n=9) were low; 17 percent (n=2) expressed medium level of concern; with one person expressing a high levels of concern.

■ Adequacy of Facilities

Respondents to this access area suggested that fishing piers needed protection for small children, who could fall under the fence at the access below the dam on the west bank; signage and/or information should be provided in Spanish; interest in a marina on the Stanly County side of the lake; and, buoys and signage are needed to protect the people near Morrow Mountain (Table 24).

■ Activities or Services Currently Not Available

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included having more places to camp, fish from shoreline and picnic; a sound device (e.g., horn) to alert visitors before the dam begins generation; public boating access areas provide bank fishing and swimming opportunity (Table 24).

■ Facility Capacity

The Tillery Canoe Portage approached an estimated facility capacity level during the Memorial Day weekend end, with an estimated of 65 percent of maximum capacity. Table 16 depicts estimated use levels based on year round spot counts. Based on the estimated use levels, the Tillery Canoe Portage reached 30 percent of capacity during May weekdays. July 4 weekend was estimated at 35 percent of capacity, with the rest of the year reaching less than 30 percent of parking facility capacity.

Table 16 Tillery Canoe Portage facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 20 | 10 | 0 | 0 | 0.0 |
| | WE | 20 | 10 | 0 | 0 | 0.0 |
| Feb 05 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 0 | 0 | 0.0 |
| Mar 05 | WD | 20 | 10 | 0 | 0 | 0.0 |
| | WE | 20 | 10 | 1 | 0 | 5.0 |
| Apr 04 | WD | 20 | 10 | 2 | 0 | 10.0 |
| | WE | 20 | 10 | 4 | 0 | 20.0 |
| May 04 | WD | 20 | 10 | 2 | 0 | 10.0 |
| | WE | 20 | 10 | 6 | 0 | 30.0 |
| | Hol | 20 | 10 | 13 | 0 | 65.0 |
| Jun 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 3 | 0 | 15.0 |
| Jul 04 | WD | 20 | 10 | 0 | 0 | 0.0 |
| | WE | 20 | 10 | 2 | 0 | 10.0 |
| | Hol | 20 | 10 | 7 | 0 | 35.0 |
| Aug 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 3 | 0 | 15.0 |

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Sep 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 1 | 0 | 5.0 |
| | Hol | 20 | 10 | 3 | 0 | 15.0 |
| Oct 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 3 | 0 | 15.0 |
| Nov 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 0 | 0 | 0.0 |
| Dec 04 | WD | 20 | 10 | 1 | 0 | 5.0 |
| | WE | 20 | 10 | 1 | 0 | 5.0 |

Informal Access Area - TW

The Informal Access Area has one one-lane primitive boat ramp in poor condition. The shoreline fishing access is in good condition, with some litter, accommodating approximately 50 to 100 bank fishermen. The power plant road is a two-lane and paved road access in good condition. There are four parking areas which are gravel or clearings, and all are considered to be in good condition.

■ **Conditions Interfering with Experience**

Of the 94 respondents answering whether the level of concern for conditions that interfered with their recreation experience at the Tillery Canoe Portage access, 67 percent (n=63) said “no”. Of the 22 respondents expressing a concern for level of crowding, 68 percent (n=15) had a low level of concern, with 27 percent (n=6) with a medium level of concern. One respondent expressed a high level of concern. With respect to concern for limited access, again of the small percentage that did respond (n=25), 60 percent (n=15) had a low level of concern, and 24 percent (n=6) had a medium level of concern, with 16 percent (n=4) responding with a high level of concern. Regarding trash and litter, of the 28 responding, 39 percent had a low level of concern, with 29 percent (n=8) responding with medium level of concern, and 32 percent (n=9) responding with a high level of concern. Twenty-four respondents expressed some level of concern for water levels, of which 46 percent (n=11) were low; 21 percent (n=5) expressed medium level of concern; with 33 percent (N=8) expressing a high level of concern.

■ **Adequacy of Facilities**

Respondents to this area expressing that facilities were not adequate, suggested a range of improvements. The provision of toilets and picnic areas were suggested, as well as better facilities for boat access. Respondents commented that access for bank fishermen was limited, and saw fishing piers as an important addition. Suggestions regarding boat ramps were also made, including maintaining the condition of the ramp for two wheel drive vehicles and moving big rocks out of the way. In addition, some respondents mentioned the need for increased patrolling on the lake and better facilities so that the elderly as well as young people can access the lake (Table 24).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included having more places to camp, fish from

shoreline and picnic; a sound device (e.g., horn) to alert visitors before the dam begins generation; public boating access areas provide bank fishing and swimming opportunity (Table 24).

■ Facility Capacity

With respect to facility capacity, the Informal Access Area exceeded its capacity level once during the weekday in October with 124 percent capacity. The rest of the estimates demonstrate less than 50 percent capacity, with most months between 20 and 50 percent capacity (Table 17).

Table 17 Informal Access - TW facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 45 | 12 | 2 | 1 | 12.8 |
| | WE | 45 | 12 | 1 | 1 | 10.6 |
| Feb 05 | WD | 45 | 12 | 3 | 1 | 15.0 |
| | WE | 45 | 12 | 3 | 1 | 15.0 |
| Mar 05 | WD | 45 | 12 | 2 | 1 | 12.8 |
| | WE | 45 | 12 | 5 | 4 | 44.4 |
| Apr 04 | WD | 45 | 12 | 7 | 1 | 23.9 |
| | WE | 45 | 12 | 8 | 2 | 34.4 |
| May 04 | WD | 45 | 12 | 4 | 2 | 25.6 |
| | WE | 45 | 12 | 8 | 3 | 42.8 |
| | Hol | 45 | 12 | 7 | 1 | 23.9 |
| Jun 04 | WD | 45 | 12 | 7 | 2 | 32.2 |
| | WE | 45 | 12 | 6 | 4 | 46.7 |
| Jul 04 | WD | 45 | 12 | 4 | 3 | 33.9 |
| | WE | 45 | 12 | 6 | 2 | 30.0 |
| | Hol | 45 | 12 | 9 | 1 | 28.3 |
| Aug 04 | WD | 45 | 12 | 5 | 4 | 44.4 |
| | WE | 45 | 12 | 6 | 2 | 30.0 |
| Sep 04 | WD | 45 | 12 | 2 | 0 | 4.4 |
| | WE | 45 | 12 | 7 | 2 | 32.2 |
| | Hol | 45 | 12 | 5 | 0 | 11.1 |
| Oct 04 | WD | 45 | 12 | 11 | 12 | 124.4 ¹ |
| | WE | 45 | 12 | 10 | 2 | 38.9 |
| Nov 04 | WD | 45 | 12 | 6 | 2 | 30.0 |
| | WE | 45 | 12 | 7 | 3 | 40.6 |
| Dec 04 | WD | 45 | 12 | 3 | 2 | 23.3 |
| | WE | 45 | 12 | 4 | 1 | 17.2 |

¹ Facility capacity was exceeded on October 6.

5.0 Summary of Recreation Issues for Blewett Falls Lake

Informal Tailrace Access

At the Informal Tailrace Access site there is one concrete and two dirt one-lane boat ramps, each in fair to poor condition. There is capacity for 50 vehicles and 20 boat trailers in the gravel and dirt parking lot which is in fair condition with some erosion damage. There are some clearings along the shoreline which provide fishing access for 20 to 25 people, and there is a swimming beach in fair condition which becomes exposed at low water.

■ **Conditions Interfering with Experience**

Of the 95 respondents who answered whether they had experienced conditions that interfered with their recreation experience at Informal Tailrace Access Site, two-thirds (66 percent; n=63) said “yes”. Thirty-two respondents expressed a concern for crowded conditions. Of these, 66 percent (n=21) was low concern, 28 percent (n=9) was medium concern, and 6 percent (n=2) was high concern. Of the 40 respondents who expressed concern for limited access at the Informal Tailrace Access Site, 40 percent (n=16) was low concern, 35 percent (n=14) was medium concern, and 25 percent (n=10) was high concern. With respect to the improper disposal of trash or litter, of the forty-two respondents, 24 percent (n=10) expressed low concern, 31 percent (n=13) expressed medium concern, and almost half (45 percent; n=19) expressed high concern. Fifty respondents expressed some level of concern for water levels, of which 22 percent (n=11) were low, 32 percent (n=16) were medium, and 46 percent (n=23) were high.

■ **Adequacy of Facilities**

Respondents at this access area suggested a need for a toilet facility, improvements to the boat ramps and parking lot (grading and repair), camping facilities open to the public, signage (particularly “no drinking” signs), more public fishing areas, bumper guards on the dock, and trash facilities (Table 25).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included extending the boat ramp, lights at the tail water camp and along the river, improved access (around the lake and into the river channel), increased security, toilets, trash cans, camping areas, picnic tables, hiking trails, removing debris and maintaining the roads, and providing public access to the pumping schedules (Table 25).

■ **Facility Capacity**

With respect to the estimated facility capacity, the Informal Access facility reached 50 percent of capacity on two occasions throughout the year, these being the fishing weekend in April (52 percent) and May weekday (52 percent). Throughout the remainder of the year, facility capacity was generally between 15 and 40 percent during the warmer months, and below 10 percent during the colder months (Table 18).

Table 18 Informal Access facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 50 | 20 | 0 | 0 | 0.0 |
| | WE | 50 | 20 | 2 | 2 | 14.0 |
| Feb 05 | WD | 50 | 20 | 1 | 0 | 2.0 |
| | WE | 50 | 20 | 1 | 1 | 7.0 |
| Mar 05 | WD | 50 | 20 | 5 | 2 | 20.0 |
| | WE | 50 | 20 | 6 | 4 | 32.0 |
| Apr 04 | WD | 50 | 20 | 15 | 2 | 40.0 |
| | WE | 50 | 20 | 16 | 4 | 52.0 |

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| May 04 | WD | 50 | 20 | 11 | 6 | 52.0 |
| | WE | 50 | 20 | 8 | 2 | 26.0 |
| | HOL | 50 | 20 | 8 | 2 | 26.0 |
| Jun 04 | WD | 50 | 20 | 7 | 4 | 34.0 |
| | WE | 50 | 20 | 9 | 4 | 38.0 |
| Jul 04 | WD | 50 | 20 | 5 | 2 | 20.0 |
| | WE | 50 | 20 | 4 | 2 | 18.0 |
| | HOL | 50 | 20 | 6 | 1 | 17.0 |
| Aug 04 | WD | 50 | 20 | 4 | 2 | 18.0 |
| | WE | 50 | 20 | 3 | 1 | 11.0 |
| Sep 04 | WD | 50 | 20 | 2 | 1 | 9.0 |
| | WE | 50 | 20 | 7 | 3 | 29.0 |
| | HOL | 50 | 20 | 2 | 0 | 4.0 |
| Oct 04 | WD | 50 | 20 | 6 | 2 | 22.0 |
| | WE | 50 | 20 | 5 | 2 | 20.0 |
| Nov 04 | WD | 50 | 20 | 1 | 0 | 2.0 |
| | WE | 50 | 20 | 1 | 1 | 7.0 |
| Dec 04 | WD | 50 | 20 | 2 | 2 | 14.0 |
| | WE | 50 | 20 | 1 | 1 | 7.0 |

Blewett Falls Canoe Portage

The Blewett Falls Canoe Portage access site is generally in poor to fair condition with excessive litter and holes in the access roads and parking areas. The site has parking for 20 vehicle and 8 boat trailers in a cul-de-sac and small clearing off the gravel access road. There is a small beach around the portage cove used for swimming, and the shoreline is used for fishing for up to 20 people.

■ **Conditions Interfering with Experience**

Of the 65 respondents who answered whether they had experienced conditions that interfered with their recreation experience at the Blewett Falls Canoe Portage, more than half (57 percent; n=37) said “yes”. Of the 17 respondents who expressed concern for crowded conditions, 77 percent (n=13) was low concern, and 23 percent (n=4) was medium concern. Twenty-one respondents expressed concern for limited access at Blewett Falls Canoe Portage. Of these, one-third (33 percent; n=7) expressed low concern, and 67 percent (n=14) expressed medium to high concern. With respect to the improper disposal of litter or trash, of those responding, 86 percent (n=24) expressed a high to medium level of concern. Twenty-five respondents expressed concern for water levels, of which 52 percent (n=13) were low, 16 percent (n=4) were medium, and 32 percent (n=8) were high.

■ **Adequacy of Facilities**

Respondents to this access area suggested a need for a toilet facility, garbage cans, improved parking areas, public camping areas, picnic tables, steps up to the bank to improve safety, and better signage (Table 25).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included opening a landing for access below Blewett

Falls, providing a bait shop, adding picnic tables, toilets and a water fountain, improving landings, allowing camping at traditional camping locations, and providing a mountain bike course with bike and boat rentals (Table 25).

■ Facility Capacity

The estimated facility capacity for the Blewett Falls Canoe Portage exceeded capacity on two occasions throughout the year, the average April weekday (153 percent) and the Memorial Day holiday in May (113 percent). Other times where the facility approached maximum capacity were the July 4th holiday (90 percent), June weekend (70 percent), April fishing weekend (63 percent) and August weekend (63 percent). For the remainder of the year, the facility generally had a capacity of 20 percent or less (Table 19).

Table 19 Blewett Falls Canoe Portage facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|--|------------------|-------------------------------------|-----------------------------------|
| Jan 05 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | WE | 20 | 8 | 0 | 0 | 0.0 |
| Feb 05 | WD | 20 | 8 | 0 | 0 | 0.0 |
| | WE | 20 | 8 | 1 | 0 | 5.0 |
| Mar 05 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | WE | 20 | 8 | 1 | 0 | 5.0 |
| Apr 04 | WD | 20 | 8 | 8 | 9 | 152.5 ¹ |
| | WE | 20 | 8 | 10 | 1 | 62.5 |
| May 04 | WD | 20 | 8 | 3 | 0 | 15.0 |
| | WE | 20 | 8 | 6 | 0 | 30.0 |
| | HOL | 20 | 8 | 20 | 1 | 112.5 ² |
| Jun 04 | WD | 20 | 8 | 4 | 0 | 20.0 |
| | WE | 20 | 8 | 14 | 0 | 70.0 |
| Jul 04 | WD | 20 | 8 | 4 | 0 | 20.0 |
| | WE | 20 | 8 | 1 | 0 | 5.0 |
| | HOL | 20 | 8 | 18 | 0 | 90.0 |
| Aug 04 | WD | 20 | 8 | 2 | 0 | 10.0 |
| | WE | 20 | 8 | 10 | 1 | 62.5 |
| Sep 04 | WD | 20 | 8 | 2 | 0 | 10.0 |
| | WE | 20 | 8 | 5 | 0 | 25.0 |
| | HOL | 20 | 8 | 6 | 0 | 30.0 |
| Oct 04 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | WE | 20 | 8 | 3 | 0 | 15.0 |
| Nov 04 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | WE | 20 | 8 | 2 | 0 | 10.0 |
| Dec 04 | WD | 20 | 8 | 1 | 0 | 5.0 |
| | WE | 20 | 8 | 1 | 0 | 5.0 |

¹ Facility capacity was exceeded on April 7.

² Facility capacity was exceeded on Memorial Day holiday.

Grassy Islands Access Area

The Grassy Islands Access Area has a one-lane concrete boat ramp in fair condition, a grassy area along the bank for fishing access, a two-lane gravel access road, and a gravel parking lot for up to 30 vehicles and 12 boat trailers. Generally, the access area is in good condition.

■ **Conditions Interfering with Experience**

Of the 62 respondents who answered whether they had experienced conditions that interfered with their recreation experience at Grassy Islands Access Area, the majority (82 percent; n=51) said “yes”. Twenty respondents expressed concern for crowded conditions. Of these, 65 percent (n=13) was low concern, 30 percent (n=6) was medium concern, and 5 percent (n=1) was high concern. With respect to concern for limited access, of the small percentage that did respond (n=18), half (50 percent; n=9) expressed low concern, with the other half expressing medium to high concern. Of those that responded to the level of concern for the improper disposal of litter or trash (n=19), 37 percent (n=7) expressed low concern, 42 percent (n=8) expressed medium concern, and 21 percent (n=4) expressed high concern. Forty-six respondents expressed concern for water levels, of which 24 percent (n=11) were low, and 76 percent (n=35) were medium to high.

■ **Adequacy of Facilities**

Respondents at the Grassy Islands Access suggested a need for more campgrounds, increased law enforcement personnel, a toilet facility, and navigation buoys for stumps. They also suggested that the boat ramps were not adequate due to low water levels (Table 25).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included increasing camping opportunities, providing the public with a phone or access to water level information/pumping schedules, a toilet facility, the addition of migratory fish in the lake, updated signage at boat ramp, trash cans, lighting in parking lots, improved access to the lake and river, and better grass cutting at the ramp (Table 25).

■ **Facility Capacity**

For the Grassy Islands Access, there were three occasions throughout the year where the estimated facility capacity was exceeded. These were the Memorial Day holiday in May (155 percent), the fishing weekend in April (153 percent), and July weekday (117 percent). Additional occasions where capacity was greater than 50 percent were May weekday (85 percent), July 4 holiday (62 percent), July weekend (58 percent), November weekend (57 percent), and May weekend (50 percent). Throughout the remainder of the year, capacity levels were less than 50 percent (Table 20).

Table 20 Grassy Islands facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|-------------------------------------|---------------|----------------------------------|-----------------------------|
| Jan 05 | WD | 30 | 12 | 2 | 2 | 23.3 |
| | WE | 30 | 12 | 2 | 1 | 15.0 |
| Feb 05 | WD | 30 | 12 | 1 | 1 | 11.7 |
| | WE | 30 | 12 | 2 | 1 | 15.0 |
| Mar 05 | WD | 30 | 12 | 3 | 2 | 26.7 |
| | WE | 30 | 12 | 3 | 3 | 35.0 |
| Apr 04 | WD | 30 | 12 | 5 | 4 | 50.0 |
| | WE | 30 | 12 | 16 | 12 | 153.3 ¹ |
| May 04 | WD | 30 | 12 | 8 | 7 | 85.0 |
| | WE | 30 | 12 | 5 | 4 | 50.0 |
| | HOL | 30 | 12 | 14 | 13 | 155.0 ² |
| Jun 04 | WD | 30 | 12 | 4 | 3 | 38.3 |
| | WE | 30 | 12 | 4 | 4 | 46.7 |
| Jul 04 | WD | 30 | 12 | 10 | 10 | 116.7 ³ |
| | WE | 30 | 12 | 5 | 5 | 58.3 |
| | HOL | 30 | 12 | 6 | 5 | 61.7 |
| Aug 04 | WD | 30 | 12 | 3 | 3 | 35.0 |
| | WE | 30 | 12 | 4 | 3 | 38.3 |
| Sep 04 | WD | 30 | 12 | 3 | 2 | 26.7 |
| | WE | 30 | 12 | 3 | 3 | 35.0 |
| | HOL | 30 | 12 | 2 | 2 | 23.3 |
| Oct 04 | WD | 30 | 12 | 2 | 2 | 23.3 |
| | WE | 30 | 12 | 6 | 2 | 36.7 |
| Nov 04 | WD | 30 | 12 | 3 | 2 | 26.7 |
| | WE | 30 | 12 | 7 | 4 | 56.7 |
| Dec 04 | WD | 30 | 12 | 3 | 1 | 18.3 |
| | WE | 30 | 12 | 2 | 1 | 15.0 |

¹ Facility capacity was exceeded on April 4 and 18.

² Facility capacity was exceeded on Memorial Day holiday.

³ Facility capacity was exceeded on July 5 (a portion of the holiday weekend).

Informal SR 1744

The access at Informal SR 1744 Site has a one-lane, informal/unpaved boat ramp in fair condition, a swimming beach which is exposed when the water is low, and a grassy and dirt open parking area that can accommodate 25 vehicles and 10 boat trailers. The parking area is in fair condition, and there is excessive litter along the shoreline fishing and shade trees/grass areas.

■ Conditions Interfering with Experience

Of the 75 respondents who answered whether they had experienced conditions that interfered with their recreation experience at Informal SR 1744 Site, the majority (72 percent; n=54) said “yes”. Thirty-two respondents expressed concern for crowded conditions. Of these, 59 percent (n=19) expressed low concern, 28 percent (n=9) expressed medium concern, and 13 percent (n=4) expressed high concern. Thirty-four respondents at Informal SR 1744 Site expressed concern for limited access. Of these, 35 percent (n=12) expressed low concern, and 65 percent (n=22) expressed medium to high concern. Of those that responded to the level of concern for the improper disposal of litter or trash, 23 percent (n=10) expressed low concern, with 77 percent (n=33) expressing

medium to high concern. Forty-four respondents expressed concern for water levels, of which 30 percent (n=13) were low, 39 percent (n=17) were medium, and 32 percent (n=14) were high.

■ Adequacy of Facilities

Respondents to this access area suggested a need for a toilet facility, the trash cans be returned, a better boat ramp, camping facilities, improvements to the parking lot (leveled and filled), disabled access, a fishing pier, and additional signage for anglers (Table 25).

■ Activities or Services Currently Not Available

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included the provision of a toilet facility, lights at the launch site, trash cans, extending the boat ramp, additional camping areas, a public beach access, and stumps and snags marked or removed (Table 25).

■ Facility Capacity

The estimated facility capacity at SR 1744 reached 50 percent capacity or greater on numerous occasions throughout the year. Over 100 percent capacity was reached on April weekday (110 percent) and May weekend (118 percent), with 84 percent capacity reached April fishing weekend, 80 percent June weekend, 80 percent July 4th holiday, 70 percent July weekend, 66 percent July weekday, 58 percent May weekday, and 54 percent on the Memorial Day holiday in May. The remainder of the capacity reached throughout the year was 28 percent or less (Table 21).

Table 21 Informal SR 1744 facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|-------------------------------------|---------------|----------------------------------|-----------------------------|
| Jan 05 | WD | 25 | 10 | 0 | 0 | 0.0 |
| | WE | 25 | 10 | 0 | 0 | 0.0 |
| Feb 05 | WD | 25 | 10 | 1 | 0 | 4.0 |
| | WE | 25 | 10 | 2 | 2 | 28.0 |
| Mar 05 | WD | 25 | 10 | 1 | 0 | 4.0 |
| | WE | 25 | 10 | 1 | 1 | 14.0 |
| Apr 04 | WD | 25 | 10 | 15 | 5 | 110.0 ¹ |
| | WE | 25 | 10 | 16 | 2 | 84.0 |
| May 04 | WD | 25 | 10 | 7 | 3 | 58.0 |
| | WE | 25 | 10 | 17 | 5 | 118.0 |
| | HOL | 25 | 10 | 11 | 1 | 54.0 |
| Jun 04 | WD | 25 | 10 | 5 | 0 | 20.0 |
| | WE | 25 | 10 | 15 | 2 | 80.0 |
| Jul 04 | WD | 25 | 10 | 14 | 1 | 66.0 |
| | WE | 25 | 10 | 10 | 3 | 70.0 |
| | HOL | 25 | 10 | 15 | 2 | 80.0 |
| Aug 04 | WD | 25 | 10 | 1 | 1 | 14.0 |
| | WE | 25 | 10 | 6 | 0 | 24.0 |
| Sep 04 | WD | 25 | 10 | 1 | 0 | 4.0 |
| | WE | 25 | 10 | 2 | 0 | 8.0 |
| | HOL | 25 | 10 | 3 | 1 | 22.0 |
| Oct 04 | WD | 25 | 10 | 1 | 1 | 14.0 |
| | WE | 25 | 10 | 3 | 0 | 12.0 |

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Nov 04 | WD | 25 | 10 | 0 | 0 | 0.0 |
| | WE | 25 | 10 | 2 | 1 | 18.0 |
| Dec 04 | WD | 25 | 10 | 0 | 0 | 0.0 |
| | WE | 25 | 10 | 0 | 0 | 0.0 |

¹ Facility capacity was exceeded on April 16.

Pee Dee Access Area

There are four two-lane boat ramps at the Pee Dee Access Area, all in good condition. There are three boat docks that can accommodate 6 to 10 boats, and there is shoreline fishing banks accessible from the lot. The parking areas are gravel with cable dividers and can accommodate 95 vehicles and 70 boat trailers.

■ **Conditions Interfering with Experience**

Of the 161 respondents who answered whether they had experienced conditions that interfered with their recreation experience at Pee Dee Access Area, more than half (60 percent; n=97) said “yes”. Forty-three respondents expressed concern for crowded conditions. Of these, 74 percent (n=32) expressed a low concern, 14 percent (n=6) expressed medium concern, and 12 percent (n=5) expressed high concern. Of the 42 respondents who expressed concern for limited access, 67 percent (n=28) were low levels of concern, and 33 percent (n=14) were medium or high levels of concern. The majority (83 percent; n=45) of the 54 respondents who expressed concern for the improper disposal of litter or trash expressed medium to high concern. The remainder (17 percent; n=9) expressed a low level of concern. Eighty-seven respondents expressed concern for water levels, of which the majority (82 percent; n=75) expressed medium to high levels of concern.

■ **Adequacy of Facilities**

Respondents to Pee Dee suggested a need for a toilet facility, a marina, graded parking lots, an extended boat ramp, beach and recreation areas, handicapped access, bigger signs leading to the access area, and trash containers. They were also concerned that when the water level is low it can become dangerous on the docks (Table 25).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included the addition of a camping area, a toilet facility, trash cans, a marina, lighting around the parking lot to increase security, designated parking areas, improved boat ramps, the removal of debris around the ramps, marking stumps, planting fish, regulating and limiting jet ski use, handicapped fishing access, and having a game warden check in to maintain and presence (Table 25).

■ **Facility Capacity**

There were six occasions where the Pee Dee facility exceeded the estimated maximum capacity; July 4 holiday (135 percent), April weekend (133 percent), July weekday (131 percent), August

weekend (129 percent), June weekend (124 percent), and May weekend (113 percent). The facility reached 78 percent capacity April weekday, 72 percent capacity July weekend, and 63 percent May weekday. The Memorial Day holiday in May was estimated at 44 percent capacity, with the remainder of the year reaching 28 percent capacity or less (Table 22).

Table 22 Pee Dee Access facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 95 | 70 | 1 | 1 | 2.5 |
| | WE | 95 | 70 | 2 | 2 | 5.0 |
| Feb 05 | WD | 95 | 70 | 1 | 1 | 2.5 |
| | WE | 95 | 70 | 4 | 4 | 9.9 |
| Mar 05 | WD | 95 | 70 | 6 | 5 | 13.5 |
| | WE | 95 | 70 | 5 | 5 | 12.4 |
| Apr 04 | WD | 95 | 70 | 35 | 29 | 78.3 |
| | WE | 95 | 70 | 58 | 50 | 132.5 ¹ |
| May 04 | WD | 95 | 70 | 29 | 22 | 62.0 |
| | WE | 95 | 70 | 57 | 37 | 112.9 ² |
| | HOL | 95 | 70 | 19 | 17 | 44.3 |
| Jun 04 | WD | 95 | 70 | 12 | 10 | 26.9 |
| | WE | 95 | 70 | 68 | 37 | 124.4 ³ |
| Jul 04 | WD | 95 | 70 | 62 | 46 | 131.0 ⁴ |
| | WE | 95 | 70 | 36 | 24 | 72.2 |
| | HOL | 95 | 70 | 66 | 46 | 135.2 ⁵ |
| Aug 04 | WD | 95 | 70 | 8 | 7 | 18.4 |
| | WE | 95 | 70 | 61 | 45 | 128.5 ⁶ |
| Sep 04 | WD | 95 | 70 | 3 | 3 | 7.4 |
| | WE | 95 | 70 | 12 | 10 | 26.9 |
| | HOL | 95 | 70 | 6 | 6 | 14.9 |
| Oct 04 | WD | 95 | 70 | 6 | 6 | 14.9 |
| | WE | 95 | 70 | 8 | 8 | 19.8 |
| Nov 04 | WD | 95 | 70 | 3 | 2 | 6.0 |
| | WE | 95 | 70 | 12 | 11 | 28.3 |
| Dec 04 | WD | 95 | 70 | 1 | 1 | 2.5 |
| | WE | 95 | 70 | 8 | 8 | 19.8 |

¹ Facility capacity was exceeded on April 10 and 18.

² Facility capacity was exceeded on May 9.

³ Facility capacity was exceeded on June 20.

⁴ Facility capacity was exceeded on July 5 (weekday).

⁵ Facility capacity was exceeded on July 4 holiday.

⁶ Facility capacity was exceeded on August 8.

Blewett Falls Access Area/Power Plant

The Blewett Tailwater Access Area has a private, one-lane gravel boat ramp in fair condition used only by Progress Energy, a concrete fishing pier, approximately 100 yards of shoreline fishing access, and a paved parking lot. The access area is generally in good condition, with some litter observed at the pier, along the shoreline, and the shady area along the river.

■ **Conditions Interfering with Experience**

Of the 137 respondents who answered whether they had experienced conditions that interfered with their recreation experience at Blewett Access Area, just over half (56 percent; n=76) said “no”. Of the 32 respondents who expressed concern for crowded conditions, 72 percent (n=23) was low concern, 19 percent (n=6) was medium concern, and 9 percent (n=3) was high concern. Thirty-four respondents expressed concern for limited access at Blewett Access Area. Of these, 47 percent (n=16) were low, 35 percent (n=12) were medium, and 18 percent (n=6) were high levels of concern. Regarding trash and litter, of those responding, a majority had medium to high concern with improper disposal of trash or litter (71 percent; n=32). Fifty-two respondents expressed concern for water levels, of which 25 percent (n=13) were low, 27 percent (n=14) were medium, and 48 percent (n=25) were high.

■ **Adequacy of Facilities**

Respondents to Blewett Falls Access Area suggested that the toilet facilities (or lack thereof) were “not adequate”, that a camping facility should be provided, that the pier should be extended to the elevation marker, the ramps should be extended, and there should be trash cans (Table 25).

■ **Activities or Services Currently Not Available**

Respondents mentioned several services and facilities that they felt would improve their recreation experience from this access point. Comments included the provision of a toilet facility, easier access to the river bank and a fishing pier, the addition of picnic tables and benches, lighting at the parking area to protect vehicles, a boat ramp at the pump house, public access to a pumping schedule, and more places to camp (Table 25).

■ **Facility Capacity**

The estimated facility capacity at the Blewett Access was not greater than 38 percent capacity throughout the entire year. An estimated capacity of 38 percent was reached Labor Day holiday in September, with 34 percent in July weekend, 30 percent in May weekday, and 30 percent in July weekday (Table 23).

Table 23 Blewett Access facility capacity estimates.

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jan 05 | WD | 50 | 10 | 2 | 0 | 4.0 |
| | WE | 50 | 10 | 1 | 0 | 2.0 |
| Feb 05 | WD | 50 | 10 | 2 | 0 | 4.0 |
| | WE | 50 | 10 | 3 | 0 | 6.0 |
| Mar 05 | WD | 50 | 10 | 6 | 1 | 22.0 |
| | WE | 50 | 10 | 4 | 1 | 18.0 |
| Apr 04 | WD | 50 | 10 | 11 | 0 | 22.0 |
| | WE | 50 | 10 | 9 | 0 | 18.0 |
| May 04 | WD | 50 | 10 | 10 | 1 | 30.0 |
| | WE | 50 | 10 | 11 | 0 | 22.0 |
| | HOL | 50 | 10 | 12 | 0 | 24.0 |
| Jun 04 | WD | 50 | 10 | 11 | 0 | 22.0 |
| | WE | 50 | 10 | 11 | 0 | 22.0 |

| Month | Type of Day | Vehicle Capacity | Vehicle w/ Boat Trailer Capacity | Vehicle Count | Vehicle w/ Boat Trailer Count | Percent of Capacity Reached |
|--------|-------------|------------------|----------------------------------|---------------|-------------------------------|-----------------------------|
| Jul 04 | WD | 50 | 10 | 15 | 0 | 30.0 |
| | WE | 50 | 10 | 12 | 1 | 34.0 |
| | HOL | 50 | 10 | 7 | 0 | 14.0 |
| Aug 04 | WD | 50 | 10 | 8 | 0 | 16.0 |
| | WE | 50 | 10 | 13 | 0 | 26.0 |
| Sep 04 | WD | 50 | 10 | 3 | 0 | 6.0 |
| | WE | 50 | 10 | 6 | 0 | 12.0 |
| | HOL | 50 | 10 | 19 | 0 | 38.0 |
| Oct 04 | WD | 50 | 10 | 13 | 0 | 26.0 |
| | WE | 50 | 10 | 5 | 0 | 10.0 |
| Nov 04 | WD | 50 | 10 | 3 | 0 | 6.0 |
| | WE | 50 | 10 | 7 | 0 | 14.0 |
| Dec 04 | WD | 50 | 10 | 1 | 0 | 2.0 |
| | WE | 50 | 10 | 5 | 0 | 10.0 |

6.0 Residents Recreation Activities

Overall Lake Tillery residents spend a majority of their time wildlife viewing, with respondents reporting an overall average of eight days per month engaged in this activity. Motor boating was the next most frequent activity with respondents reporting an average of five days of motor boating per month. Swimming was popular, with an average of four days per month, followed by jet skiing and bank fishing each with an average of three reported days per month (Table 86 [located in Appendix E7-1]).

Summary of comments on recreation activities by Lake Tillery residents:

- Jet skis
 - We enjoy our jet ski very much
 - We used our jet ski every day the water level was up
 - I hate these jet skis
 - Jet skis interfere with all other lake activities
 - There is a need to control jet skis!
 - The river level too low for jet skis
 - There are too many jet skis on the lake
- Swimming
 - Enjoy swimming all summer
 - Cannot swim because of algae
 - Kids swim often
 - Poor swimming, due to grass growing on bottom
 - Swim usually weekends
- Boat Fishing
 - Fish every day the water level was up
 - Fish every morning
 - Did not fish when lake was down
 - Need to restock striper and crappie
 - Not too lucky
 - There is poor fishing

- Too crowded with boats
- Weather permitting
- Bank Fishing
 - Fish for catfish
 - Bank fish daily
 - I dock fish
 - Enjoy very much
 - This is my favorite pastime
 - I enjoy fishing off my pier
 - Fun and relaxing.
 - It is good-calm
 - Good crappie fishing.
 - The lake level low when temp warm
 - Nearby lakes have a better fishing
 - Need to restock lake
 - No fish
 - Bank fishing is not good
 - Poor fishing overall
 - The lake is too crowded with boats
- Hunting
 - I hunt for duck/goose
 - I hunt ducks
 - I hunt in Thicketing Creek
 - I hunt at the lake house near farm
 - I hunt other land
 - Should be prohibited on recreational lakes due to danger posed to visitors and residents. This is an ongoing and growing problem.
 - Waterfowl
- Wildlife Viewing
 - I always watch for birds, snakes, deer, etc.
 - Amazing to see a bald eagle swoop and sweep a blue heron from eagle's waters. Disheartening to see the myriad of muskrats eating foliage.
 - Anytime I happen to see any.
 - Bird feeding and watching
 - Birds, bees, night critters know it's Spring.
 - Birds, muskrats; especially eagles and pileated woodpecker.
 - Birds, squirrels, herons, turtles.
 - Eagle, and other critters
 - I enjoy very much
 - I like fish feeding
 - Is highly appreciated
 - I enjoy seeing the great blue herons, kingfisher, mallards, Canada geese, Bluebirds, pileated woodpeckers
 - Mallard hunting needs to be banned before they become extinct.
 - Saw a bald eagle attack a great blue heron. WOW!
 - We saw several muskrats, fish and ducks
 - We sit in the AM & PM in my backyard with Bino's looking at eagles, ospreys, G. Blue herons and other birds

- Too many deer and squirrels! Feeding ducks and seagulls.
- Watch wildlife all the time.
- I enjoy watching & feeding seagulls
- We look at Morrow Mountain across the lake. We love Lake Tillery.

Similar to Lake Tillery residents, Blewett Falls Lake a majority of residents identified wildlife viewing, reporting an overall average of six days per month engaged in this activity. Residents spent an average of five days per month doing “other” activities, which were specified as “living on the Lake and enjoying the Lake everyday.” Bank fishing, picnicking, motor boating, and hiking were the next most frequent activities with respondents reporting an average of two days per month participating in these activities. There were no additional comments by residents of Blewett Falls Lake on recreational activities.

7.0 Reasonable Possible Actions to Address Project-Related Issues

Several recreation activities and needs were identified by both Tillery and Blewett Falls Lakes visitors consistent with national and statewide outdoor recreation trends. National outdoor recreation trends and use patterns have indicated sightseeing, non-consumptive wildlife activities are fast growing activities across North America. The North Carolina Outdoor Recreation Plan noted several activities with high future demand, including walking for pleasure, freshwater fishing, beach activities, tent or vehicle camping, bicycling and picnicking (NCORP 2003-2008). The Comprehensive Wildlife Conservation Strategy identified nature centers and educational information, watchable wildlife opportunities, including opportunities for paddling, hiking, camping, and birding as priorities. Similarly, the 1998 NC State Trail and Greenway Survey found that respondents identified walking for pleasure, hiking, bicycling, and canoe and kayaking were the most popular activities; and 75 percent felt it was important to have trails and information on trails, as well as trails close to home. Within the region and proximity of Tillery and Blewett Lakes, the Uwharrie Conditions and Trends report (2005), reported the fastest growing activities for the forest as wildlife viewing, fishing, viewing birds, swimming, day hikes, and primitive camping.

Similar to trends occurring at a state and regional level, Lake Tillery visitors identified interest in the availability of more camping facilities, increased shoreline fishing opportunities via docks or fishing piers, swimming areas, trail markers and maps, watchable wildlife access areas, playground and picnic areas. Visitors at Blewett Falls Lake had similar activities noted they would like to see available, including canoe rentals, picnic areas, information (water levels, wildlife), bicycle trails, camping, handicap accessible fishing access, and increased shoreline fishing access areas.

In addition to noting several outdoor recreation activity trends, the NCORP also identified outdoor recreation needs for the state. Similar to needs identified by participants, NCORP stated a need for improved recreational services, such as space for recreation use, keeping parks safe and clean, need for adequate staffing for park areas, need for recreational programs and facilities, need to manage depreciative behaviors. For Lake Tillery, visitors identified better management of parking areas, toilet facilities, shoreline and dock or pier access, management of boaters and parking areas (e.g., lighting, signage), as ways to improve the adequacy of facilities. Similarly, Blewett Falls Lake visitors had similar comments, adding increased information on lake levels.

Considering the NCORP’s report, which stated the demand for outdoor recreation areas has increased in proportion to the citizens participating, the population of the counties contributing the

most visitors to Tillery and Blewett Lakes were identified. For the counties contributing most visitors to Lake Tillery, Stanly and Montgomery County population increases are between 7 to 8 percent. Other contributory counties (approximately 20 percent of visitors) show substantial increases of 23 to 32 percent. With respect to Blewett Falls Lake, most visitors were from Richmond (51 percent) and Anson counties (18 percent), which has an expected population growth of .6 percent and 4.4 percent respectively, by 2020. Through an examination of population trends, a limited understanding of increased use and visitor pressure for facilities combined with needs identified in state and regional plans provides a snapshot of future recreational needs.

Based on survey data and spot count observations, and a summary of recreation trends in the region, Progress Energy has identified the following considerations for both Lake Tillery and Blewett Falls Lake to improve the overall recreational experience of both residents and visitors:

1. Installation of sanitary facilities;
2. Lighting and increased security in parking areas;
3. Managed parking spaces to increase parking capacity;
4. Increase shoreline access and handicap access for fishing;
5. Hiking trail and trail information;
6. Wildlife viewing areas;
7. Educating boaters and jet skiers for awareness; and
8. Management of trash/litter.

The results of the recreation needs assessment identified certain improvements that primarily related to the behavior of specific groups of recreationists. Realistically, there is little that can be done by Progress Energy to modify or control the behavior. Detailed measures proposed by Progress Energy to improve the use and enjoyment of recreation resources at the Project are discussed in Section 7.12.

8.0 References

Appalachian State University. 1999. North Carolina's Central Park: Assessing Tourism and Outdoor Recreation in the Uwharrie Lakes Region. Appalachian State University, September 1999.

Moore, R.L., Siderelis, C., Lee, J-H., Ivy, M.I. and Bailey, G. 1999. 1998 North Carolina Statewide Trail and Greenway Survey. The North Carolina Department of Environment and Natural Resources, Division of Parks and Recreation. Retrieved September 13, 2005, from: <http://www.ncsparks.net/trails/>

North Carolina Division of Parks and Recreation. *Undated*. Statewide Comprehensive Outdoor Recreation Plan: North Carolina Outdoor Recreation Plan 2003-2008. Retrieved September 13, 2005, from <http://www.ils.unc.edu/parkproject/resource/scorp.html>

North Carolina Wildlife Resources Commission. *Undated*. A Wildlife Action Plan for North Carolina: The Comprehensive Wildlife Conservation Strategy. Retrieved September 13, 2005, from http://216.27.49.98/fs_index_07_conservation.htm

Uwharrie Conditions and Trends. 2005. Retrieved September 13, 2005, from http://www.cs.unca.edu/nfsnc/uwharrie_plan/planning_documents.htm. August 2005.

Table 24 Explanation/comments of respondents describing facilities as “not adequate” at Lake Tillery.

| Location | Area of Concern | Comments |
|-----------------------------|--------------------|---|
| Norwood Access Area | Toilets | Need second dock; need toilets; need more fishing piers; signage needs to be more obvious My wife and kids could use a restroom facility to make the trip more enjoyable Need toilets at ramps; need more fishing piers Toilets would make the trip for my wife and kids much more enjoyable Need toilets at ramps The only access that has piers or toilets is Morrow Mountain. That should change. Bathrooms are not adequate but they would be hard and expensive to maintain Need some toilets at ramps; fishing piers good for bank anglers |
| | Safety | Need more buoys, no wake buoys; signs about distance skiers can go to bank and fishermen |
| | Boat ramp | Boat ramps and parking lot need to be redone. Boat ramp too steep |
| | Marinas | Marinas don't provide much low end |
| | Parking | Too many nails sticking up on Norwood dock; parking should be more organized; need some toilets; need more fishing piers |
| | Dock | Dock at Norwood is too small for the use it gets and it needs repair. Nails are sticking out and rubber edge needs replacing. |
| | Trash | Need trash can |
| | Access | Need handicapped parking and pier access and more toilets. |
| Stony Mountain Access | Trash | Too much trash Too much litter |
| | Toilets | Toilets allow users the opportunity to stay for long periods of time One port-a-potty would do the job Need toilets; need more fishing piers; need more signage especially for out-of-towners who are less familiar with area Need toilets; need more fishing piers No toilets Need places for women to use the restroom. Need toilets |
| | Campground | Provide areas to camp; place trash pick-up areas. Need more campgrounds; need more fishing piers. More areas to fish and camp; need toilets at ramp if checked often; need public fishing piers, even if a fee was charged Need to know where camping is allowed and where it is not; not enough campgrounds; need toilets; need more fishing piers |
| | Pier/dock | No fishing piers are provided for the public Nice if they added a few fishing piers around the lake Need more fishing piers Piers are needed for handicapped and elderly |
| | Fishing/fish stock | Bank anglers do not have enough fishing opportunities around the lake. |

| Location | Area of Concern | Comments |
|------------------------|--------------------------------------|---|
| Swift Island Access | Toilets | <p>Toilets</p> <p>Restrooms not readily available for women</p> <p>No toilets</p> <p>Women like myself have a hard time on the lake all day without anywhere to use the restroom.</p> <p>Need toilets to keep things clean</p> <p>At least provide a port-a-john</p> <p>Females need a bathroom</p> <p>Toilets would be nice.</p> <p>Toilets only acceptable because we have a house</p> <p>Not adequate for women users</p> <p>Port-a-john would be nice</p> <p>Would be nice to have the option</p> <p>Nice to have toilets</p> <p>Most close</p> <p>There isn't a restroom at any of the public ramps, other than the state park.</p> <p>Toilet is a must for women</p> <p>Would be nice to have toilets</p> <p>There are no toilets</p> <p>Port-a-johns would be nice for women</p> <p>Need more bathrooms</p> <p>Nice if a port-a-john was available</p> |
| | Trash | Places to camp have too much trash and no trash cans |
| | Parking | Swift Island parking lot is very big but gets cluttered because it is not marked off into parking spots. The public needs a restroom especially for fishermen bringing families |
| | Access | <p>Need more river access between dam and Highway 109; More signs on Highway's</p> <p>Need more public access to support sustainable economic tourism and local businesses</p> <p>Improvement to access</p> |
| | Lighting | Lighting around the parking lot needs to be increased |
| | Picnic/BBQ/ recreation facilities | <p>Beach; public phones; courtesy phone</p> <p>Public beach area would be nice for families.</p> |
| | Lake water levels/ fluctuations | Water is too low to use boat ramps sometimes. |
| | Pier/dock | Need more fishing piers |
| | Restaurant/bait shop/store | I want to be able to stop and eat and relax |

| Location | Area of Concern | Comments |
|-------------------------------|-----------------|--|
| Lilly's Bridge Access | Trash | Need trash cans to dispose of waste - people would use them. |
| | Boat ramp | Pave ramps and clean up trash. |
| | Toilets | Need toilets Bathrooms for users convenience Need toilets Public toilet Need a bathroom for access areas. No toilets Public could use an area for relief when they are on the lake all day. I have had difficulty finding several access points because the signs are too few. Docks need padding; Facilities are needed for women and children (toilets) Would be nice if public would be responsible and maintain toilets Women need toilets Women need a place to use the restroom when they come Bathrooms at boat launch |
| | Safety | Horseshoe Bend lake area - buoy is not in right place - still hit rocks in the area |
| | Access | Not good access to fishing pier due to new highway construction. Less dusty - more gravel or paved. |
| | Parking | Parking lot is far away |
| | Signage | Signs don't tell where public fishing/bank fishing is located. New highway construction obscures Lilly's Bridge Pier Signs need to be posted further away from the lake. Toilets are needed for women and children. Women don't use the lake because of the restroom situation. |
| | Marinas | Open marina |
| | Pier/dock | No steps down to fishing pier, public toilets needed, need signs about bank fishing facilities |
| Informal SR 1740 & SR 1745 | Trash | Too much litter Clean up trash Trashy |
| | Pier/dock | Need more fishing piers. Need more piers |
| | Signage | "If you do not know your way around signs" don't help. |
| | Toilets | Need toilets at access areas; need more fishing piers Need toilets at boat ramps; need more fishing piers; need more signage and warning signs |

| Location | Area of Concern | Comments |
|----------------------------|----------------------------------|---|
| Morrow Mountain State Park | Signage | When you are looking for picnicking areas, there are no signs telling you about the area at the boat rental. Family camper sign not large enough Need better maps of the park located in more areas. No trail maps on signs, maps are paper and hard to find in the park. Each trail should be mapped at trailhead |
| | Boat ramp | More room at ramp More space at boat ramp Use one more ramp; more hot water; repaint signage Need more ramp space, more ramps |
| | Toilets | Toilets closed for Winter. Showers are bad MMSP bath house not always open during day Need toilets closer to ramp Last time we came, the campground bathrooms were kinda gross. Bathrooms need to be bigger, more signs for direction, bait for sale on site Bathrooms could be cleaner Toilet not clean |
| | Parking | Parking lot by boat ramp is too small and people will block you in sometimes Parking lot could be bigger Cars take space that boaters could use |
| | Pier/dock | Fix the pier from hurricane damage Fishing pier not adequate due to the repairs needed, but generally acceptable Fishing pier is damaged and off limits after the hurricanes Pier is damaged and off limits after hurricanes Need fish pier maintenance |
| | Picnic/BBQ/recreation facilities | Need electrical hookups at Morrow Mountain State Park; need toilets closer to ramp |
| | Debris/maintenance | Need more cleaning |
| | Lighting | Light on pier |
| | Access | Need more boat access |
| | Marinas | Not many marinas on this lake |

| Location | Area of Concern | Comments |
|-----------------------|-------------------------------------|---|
| Tillery Canoe Portage | Pier/dock Signage Marinas | Fishing piers need more protection for small children – could fall under fence at access below dam on west bank; need more Hispanic signs. Dock would be nice to increase bank fishermen area to fish. Buoys and signs to protect people up near Morrow Mountain Would be nice if marina was placed on Stanly County side of lake; steel bridge |
| Informal Access Area | Toilets | Toilets and fishing piers need to be built at the hydro facility No toilets Females need a place to go, can't always go in bushes It would be nice to have toilets. Women and children really need toilets to make fishing experience more relaxing Need bathrooms, right now using the woods and that isn't legal if caught. Bathrooms; Shelters for bad weather and picnicking |
| | Picnic/BBQ/recreation facilities | Picnic area; grill to cook fish/food These facilities do not match many of the access points on other lakes. |
| | Access | Need better facilities and more facilities for boat access; more access for public; prices too high at marinas. Road entrance is rough; access ramp needs work; picnic table would be nice. Need a catwalk at the informal Tillery Access to allow for disabled use Access for bank fishermen is limited so building fishing piers in these areas would make it much nicer for bank anglers. Road in poor condition to access |
| | Boat ramp | Two wheel drives can't use ramp. Need to maintain roads and ramp at informal access; water washes stone away. Ramp needs work |
| | Safety | Move big rocks |
| | Marinas | Too expensive for marinas. Elderly and women need somewhere to go to the bathroom. |
| | Law enforcement/security | Not enough game wardens circling lake |

| Location | Area of Concern | Comments |
|--|------------------------------------|--|
| Lake Tillery – Activities listed to enhance recreation experience | | |
| Norwood Access Area | Toilets | Bathrooms Toilets Bathrooms Need toilets Toilets need to be added in case of emergencies Restrooms |
| | Lighting | Lights in parking lot Lighting around Norwood Access should be increased to help with vehicle security Update lighting around the access Lighting around the Norwood Access needs to be improved and increased Lights in parking lot |
| | Pier/dock | Minor repairs to the rubber bumper and boards are needed on the dock here at Norwood New wood around docks, nails sticking out that can scratch boats Update padding around the dock to prevent damage on boats and jet skis Rubber the dock around the edge so boats aren't damaged as they tie up when loading and unloading. Rubber needs to be added around the Norwood dock. Provide 2 docks and a water ramp for higher volume periods during the summer The dock at the Norwood Access needs maintenance repair |
| | Toilets and trash cans | Toilets would be nice and trash cans are needed to prevent users from trashing the beautiful lake. |
| | Safety | Marking dangerous areas above 24/27 is needed |
| | Lake water levels/ fluctuations | Poor communication of Progress Energy regarding water levels |
| | Boat ramp | Less gravel on boat ramp Increase width of ramp to allow multiple users Less gravel Power and water |
| | Parking | Parking at the Norwood Access should be designated allowing trailers to park closer to ramp and eliminate single cars taking spaces. |
| | Trash | Make lake info available on website Trash cans |
| | Facilities | Need benches and picnic tables |
| | Restaurant/bait shop/store | Vending machines open when marina closed |
| | Campground | Public camping areas |
| Jet ski | Jet ski conflicts at times | |

| Location | Area of Concern | Comments |
|-----------------------|-----------------------------|--|
| Stony Mountain Access | Trash | Trash pickups would be nice Trash cans around the access points would help reduce lake litter and pollution Trash cans are needed at public fishing areas |
| | Fishing | Need more fish – fishing not as good as in the past |
| | Maintenance | Fallen tree removed from banks |
| | Pier/dock | Provide more docks for bank anglers |
| | Access | Another access closer to bridge, because boat can't get under swift bridge |
| | Restaurant/bait shop/store | Two places to eat (no more than) |
| | Law enforcement/security | More shore patrol by police to reduce vandalism and theft Law requiring boats to stay a certain distance from shore |
| | Toilets and trash cans | Need toilets and trash cans |
| | Jet skis | Regulation of jet skis to keep them out of backwater areas. |
| | Recreation equipment rental | Rental area located at Cook's Marina would be nice for users. |
| | Boat ramp | More ramps |
| Swift Island Access | Toilets | Toilets Just restrooms Toilets would be nice for convenience. Toilets, lighting at ramps Toilets Toilets Port-a-potty at boat ramps Restroom Toilets would be nice for women. I bring my wife and she has nowhere to use the bathroom. Bathrooms or running water Bathrooms Mark off parking lot for designated spots Bathrooms would be nice Restrooms |
| | Trash | Dumpsters or trash cans needed Trash cans and a marked parking lot Trash cans Trash cans at boat ramps to put trash in Trash is a problem This place just needs some trash cans. Providing trash cans for users Place trash cans at access points to give users a place to get rid of trash Provide trash cans Trash cans Need trash cans Trash cans; port-a-john |
| | Campground | More camping sites; bathrooms (port-a-potties); water (drinking) Need more places to camp and clean up litter |

| Location | Area of Concern | Comments |
|-----------------------|----------------------------------|--|
| Swift Island Access | Parking | Mark parking lot for better use of space. More info about campgrounds and other facilities at launch areas. Marking parking spots at Swift Island. Parking lot would be more efficient if it was updated, sectioned off into parking spaces. The parking lot would be better improved if it had designated parking spots. |
| | Access | A public park, food establishments, staging for concerts Bigger parking lot Put a wildlife access if possible on the Montgomery side upstream of 24/27 bridge. More ATV trails |
| | Fishing/fish stock | More fish stocking |
| | Lighting | Lighting around parking lot for night use. |
| | Jet skis | Restrictions on jet skiers and their usage needed More law enforcement for jet skiers Enforcement of jet skies and limiting them to main channels |
| | Picnic/BBQ/recreation facilities | Picnic tables and portable toilets Beach or recreation swimming areas would be nice. Picnic table in the shade |
| | Debris/maintenance | Need to mark tree trunks and rocks; port-a-johns |
| | Pier/dock | A fishing pier |
| | Restaurant/bait shop/store | Need a restaurant Somewhere to eat on water other than snack food Restaurant and restrooms More restaurants |
| Lilly's Bridge Access | Trash | Trash cans Trash everywhere and no trash cans Clean up debris and trash in water New fishing pier needs a trash can Need trash cans here and benches. Trash cans at access area New pier is good but it needs a trash can Trash cans at boat ramps Garbage cans at facilities Need garbage cans but it was nice for the city to turn the bridge into a pier |
| | Boat ramp | More boat ramps at access areas |
| | Restaurant/bait shop/store | Eating facilities Restaurants on water More restaurants/marinas on the lake Restaurant needed on lake Store at Lilly's bridge needs to open Restaurant that is accessible from the water would be nice Food services/restaurants on the lake |
| | Restaurant/bait shop/store | More facilities on lake to purchase gas Bait store Store/restaurant on the lake |

| Location | Area of Concern | Comments |
|-----------------------|--------------------------------------|---|
| Lilly's Bridge Access | Toilets | Need restroom for public facilities Restroom facilities needed Bathroom facilities at boat ramps Bathrooms at launch facilities Toilet Toilets Restrooms needed and police boats to enforce law Restrooms needed More trash cans are needed for users Bathrooms at access points Bathrooms at boat launch |
| | Debris/ maintenance | Remove trees floating in lake Maintaining the path to the fishing dock would be nice |
| | Lighting | Better lighting around all of docks Another light in parking lot. Light; posted rules. Need lighting for access areas, particularly bank fishing areas. Light for boat ramp facilities, no fishing from bank at boat ramps at night. |
| | Safety | Navigational buoys need replacing on rest side of lake (Norwood side) |
| | Campground | More campgrounds open to public More public campgrounds, use of public lands Add camping, picnic areas. Need more camping Better camping facilities around the lake |
| | Picnic/BBQ/ recreation facilities | Swimming areas for public Picnic areas and swimming areas for public use at access areas Playground for children at a public beach access would be really nice. |
| | Parking | Paving lot for parking |
| | Signage | Need better signs for bank fishing, better access on other side of road, for handicapped. |
| | Law enforcement/ security | More patrol by law Policing is great! Enforce no wake zone; jet ski. |
| | Marinas | Another public marina on lower lake Marinas open on Mondays for public More marinas available to public for food and gas |
| | Jet skis | Too many jet skiers |
| | Lake water levels/ fluctuations | Water could be higher |

| Location | Area of Concern | Comments |
|----------------------------------|--------------------------------------|--|
| Informal SR 1740 & SR 1745 | Trash | Pave informal time Litter everywhere Clean up the garbage people have dumped here Less trash Too much litter here Need more trash cans |
| | Pier/dock | More pier access Repair dock at Lilly's Bridge Adding a few public fishing piers would really help out the bank anglers |
| | Picnic/BBQ/ recreation facilities | Picnic tables would be great out here Picnic tables and a clean area for swimming. |
| | Access | Better access, road to ramp |
| Morrow Mountain State Park | Signage | Trail markers to ID which trail you are on |
| | Boat ramp | Leave park ramp open |
| | Toilets | More bathrooms Restrooms not always open There is running water and bathrooms but no water fountains |
| | Parking | Increase the size and change the arrangement of parking at Morrow Mountain Access. Parking access and marked areas for fishing from bank should be more accessible |
| | Pier/dock | Build a new pier More fishing piers Additional fishing piers at other location on the lake Bridge to island. More fishing piers. |
| | Picnic/BBQ/ recreation facilities | Playground for kids/museum was closed Biking trail Electrical and water hookups; Kayaks for rent Play area for children Playground for kids Playground, swing, slide, seesaw Playground for kids – need ash trays/butt disposal Designated swimming area Benches along water and trail Playground for kids Volleyball, horseshoes, golf course Need swimming area More picnic tables; benches along trails Volleyball recreation; horse shoe pits More children (playground etc.) Playground at Morrow Mountain Swimming area with waterslide A public swimming beach here Playground for kids Need swimming area on lake |

| Location | Area of Concern | Comments |
|----------------------------|--|---|
| Morrow Mountain State Park | Picnic/BBQ/recreation facilities | Paddle boats, swimming beach, grills, tackle at snake house Playground at Morrow Mountain Playground Swimming beach, store with bait Playground for kids Designated swimming area Access to water fountains Area for swimming Summer membership to swimming pool Benches along trails |
| | Restaurant/bait shop/store | Local bait availability Live bait sales at Morrow Mountain. Concession stand open. Grills available. A store Cheesecake factory Hotdog stand Restaurants on lake Restaurant More bait shops Sell bait at campground so people don't have to leave Restaurant Firewood for sale, ice available after hours Need a general store, add bait to canoe rental Store More snacks available |
| | Campground | Electric campsites, hookups, and bait availability, keep boat rental open late Reservations for camping; Playground for kids Designated bike trails would be nice to have in the campground. Electricity in campsites; designated swimming area Power at campsites, water More campgrounds, some on lake Need campsites by water |
| | Fishing/fish stock | Better bank fishing area |
| | Debris/maintenance | Tree debris cleanup around camps and in sight. |
| | Trash | Clean up trails Trash cans on trail |
| | Lighting | Lights could be added to access points |
| | Access | Provide public beach and swimming access |
| | Recreation equipment rental | Add paddle boats Bike rentals, horseback riding Fishing boat rental Canoe boat/paddle boat rentals |
| | Jet skis | Separate jet skis and fishing days Limit amount of boats on lake; ban jet skis Rent jet skis |
| Safety | More danger buoys to mark hazards up near dam upstream | |

| Location | Area of Concern | Comments |
|-----------------------|--------------------------------------|--|
| Tillery Canoe Portage | Picnic / BBQ / recreation facilities | More places to fish, camp, picnic |
| | Lake water levels / fluctuations | A horn should be provided and blown before dam starts generating |
| | Campground | I would like if they would allow camping again It would be nice if they allowed camping again |
| | Trash | Need trash cans |
| | Access | It would be nice if public boating access areas had bank fishing and swimming opportunities |
| Informal Access Area | Toilets | Port-a-potty Restroom; smoother access; pave road Need toilets |
| | Picnic/BBQ/ recreation facilities | It would be nice to place a soda machine and snack machine at the parking area for the informal access users. Picnic tables |
| | Pier/dock | Fishing pier along bank b/c the rocks are slippery |
| | Access | Better road access Limited access for boats Walkway up to the dam for fishermen |
| | Boat ramp | Pave ramp for boat entry, cut a canal to access the turbine area by boat better. Updating and improving the ramp at the Tillery Dam Fixing boat ramp at tailrace with a diversion wail |
| | Trash | Need to provide trash cans, so it doesn't end up in river |
| | Lake water levels/ fluctuations | Improve water level Provide the public with a pumping schedule. A generation schedule for the public |
| | Fishing/fish stock | Fishing only |

Table 25 Explanation/comments of respondents describing facilities as “not adequate” at Blewett Falls Lake.

| Location | Area of Concern | Comments |
|---------------------|-----------------|---|
| Blewett Access Area | Toilets | <p>No bathrooms; No toilets; Toilets are needed for fishermen, ladies and children so they don't use the corner; Toilets; Toilets would be nice for women - I don't bring my daughter as much because there is no restroom; The nearest restroom is 3 miles away. The users really need something here at the pump house; Toilets are really needed for convenience. Now I have to go up to HWY 74 to use the restroom; Toilets are needed to stop fisherman from using the powerhouse wall; Need restroom as women can't go when at the lake; You have no toilets for the women nor men to use; Toilets would be nice; Toilets are needed to keep tail-water fishermen from using the wall; We need toilets at this location; No toilets; No toilets; Port-a-john to keep fishermen from using the wall No restrooms, no piers on the lake, wheel house ramp is excellent Place for relief and running water would be nice. You need port-a-johns for women & men Would like port-a-johns Women need facilities. There is not a restroom facility provided for the public. No where to use the bathroom No toilets. Need toilets bad. Need places for bank fishermen so they don't have to use the "woods". If someone didn't know the area, signs wouldn't get them here. Women use Blewett Access and need access and facilities; Drinking fountain is also needed for fisherman in general Toilets are needed for obvious reasons; People use the dam wall to urinate and that needs to be changed. A public fishing area such as this that attracts the number of people it does should have a restroom.</p> |
| | Campground | <p>Camping is an activity that many people participate in during the summer and since public camping has been closed around the lake the locals have nowhere to go. Fishermen here need toilets because they have only the woods or have to drive back to town.</p> |
| | Pier/dock | <p>Extend pier to elevation marker, more no trash signs, port-a-johns for men & women</p> |
| | Boat ramp | <p>Ramps are too narrow, litter on banks parking limited It would be nice if the left-hand boat ramp were extended so they can be used during low water periods. The parking lot here washes out about every 2 months and needs more attention to keep it smooth.</p> |
| | Trash | <p>Lots of trash.</p> |

| Location | Area of Concern | Comments |
|---------------------|-----------------------------------|---|
| Blewett Access Area | Lake water levels/ fluctuations | More stable lake levels - had \$13,000 worth of damage. Trash dumpsters at ramp. Would like bathrooms - more no trash signs Lake fluctuation affects fishing and boating. Not enough signage in tail-waters areas. |
| | Law enforcement/ security | People should not drink. |
| | Marinas | No marinas on lake or piers. |
| Pee Dee Access Area | Campground | There needs to be a campground to cut down on litter all over the river. |
| | Toilets | More boat ramps, some toilets, some piers Bathrooms would be nice, but probably not cost effective. Not enough. No toilets. Lack of toilet facilities makes it very hard on female lake users. No toilets. Women especially need a restroom We need a port-a-john at least |
| | Marinas | Need a marina |
| | Parking | Parking lot needs car without trailers (parking) Parking lot is washing away Holes in parking lot and at bottom of ramp Parking lot needs to be graded Lighting in parking lot. |
| | Boat ramp | One ramp is too steep. Extend ramp for low water. No private docks or marinas – leave as is. Would like fishing piers for folks to stay off of docks When water is down ramp is too short. Holes at the bottom of ramp. Boat ramp needs to be extended to allow for use when water level is extremely low. Holes at the bottom of the ramp; debris all over the ramp and dock; no toilets; no fishing pier Boat ramps acceptable except during low water periods; it needs to be extended for those times. Ramp could be longer. Extending the ramp for low water periods is needed. When water is low sharp drop off is found at the end of ramp. Dig out around boat ramp-big hole at end of boat ramp Improve boat ramp Need to run concrete further out on ramp for low lake levels. Move right hand ramp at Pee Dee Access to a flatter position for entrance. Rubber bumpers on docks. Holes behind ramps. Screws and nails sticking out. |
| | Picnic/BBQ/ recreation facilities | Need to add beach and recreation area on the lake. |
| | Lake water levels/ fluctuations | Not deep enough When water levels are low docks become dangerous. Too shallow around ramps No water. |
| | Trash | Trash containers. Boat ramp on Richmond County side. Trash cans are needed so people will use them. |

| Location | Area of Concern | Comments |
|-----------------------------|-----------------------------------|---|
| Pee Dee Access Area | Access | Lot needs to be bigger, handicapped fishing pier Lot too small |
| | Signage | Signs could be bigger leading to access point |
| Grassy Islands Access Area | Campground | More lights at docks. Need more campgrounds; need toilets at docks Camping area are not adequate for number of users. After camping was shutdown at the dam and other places, campers without boats don't have anywhere to go. More campgrounds. Maps need to point to current location and name ramps. No camping or trash cans Campgrounds need more space; need port-a-john |
| | Lake water levels/ fluctuations | Not enough water sometimes |
| | Law enforcement/ security | Increase law enforcement personnel. |
| | Toilets | Would like to see a port-a-john This access is 10-15 minutes from the nearest public restroom so it needs at least a port-a-john. No toilets at camping facilities. Need port-a-john if clean Need toilets for ladies; need fishing piers on lake; can't camp on grassy islands anymore since last years No bathrooms. No bathroom at all - Port-a-john. Have no toilets, fishing piers, signage Toilets would be nice for women and children or emergencies. |
| | Safety | Navigation buoys for stump field need to be better. |
| | Boat ramp | Boat ramps not adequate due to water levels; need toilets for ladies; need more fishing piers. Need 2 boat ramps during peak use. Does not state if you can bank fish |
| Blewett Falls Canoe Portage | Access | Too small. Need more access to usable facilities. |
| | Picnic/BBQ/ recreation facilities | Tables and steps up bank; safer. |
| | Trash | Need garbage cans at parking area - keep clear show where to get in access area Too much trash and glass. Cleanliness. Restroom or port-a-johns Mud holes and trash. |
| | Toilets | Toilets are an obvious need for all users Need port-a-johns or buildings; need fishing piers above and below dam. Blewett "grave" ramp needs work and parking lot; need port-a-johns There is not a marina (or) campground, public toilet, or public fishing pier |

| Location | Area of Concern | Comments |
|-----------------------------------|------------------------------------|--|
| Blewett Falls Canoe Portage | Boat ramp | Ramp below dam needs grading; camping now illegal; need port-a-johns; need piers in river on east side Tailrace ramp needs work; signs - others may need more direction |
| | Parking | More parking Needs gravel and fill in holes. More parking Need to improve parking lot drive area with gravel/paving No parking lot Parking lot should be bigger |
| | Campground | No allowing camping at all of the public access points really isn't fair because everybody in the area has camped around here for years. If it is going to be prohibited at least provide a place that we can. Public camping areas are not adequate since camping has been stopped at most public access |
| | Lake water levels/ fluctuations | Not enough water |
| | Safety | The public needs a safer place that is convenient for fishing |
| | Signage | Need more directions and travel guides for newcomers. Signs are very few and misleading. |
| U.S. Highway 74 Site | Toilets | Toilets would be nice Would be nice to have toilets There are not any in the area. At 74 only one ramp now; need toilets at power plant fishing bridge |
| | Boat ramp | Boat ramps not properly managed, bad holes. Parking lots: not enough lights for night-fishing. Need another ramp at this facility. Only 1 ramp is available |
| Informal Tailrace Access | Boat ramp | Needs to be dug deeper for easier boat launch during low water Better boat ramp. Parking area needs improvement Need tailrace ramp; parking lot too rough The ramp here at the informal access area needs serious work so it can be used at all water levels. The parking area here is also extremely washed out and needs some attention. Ramp needs to be paved again. Poor ramp in tail-water; parking lot very curvy (off-roading); need port-a-johns; need fishing piers at east side. Boat ramps/docks and parking lot are not adequate at the informal access but ok at the new boat ramp on the lake Does not go into river far enough. |
| | Access | No access below dam on Anson Side. Single access point at Pee Dee access needs leveling out. |
| | Toilets | The public anglers at this lake do not have piers or toilets; it would be nice if this lake could be updated like the other area lakes. No toilets. No toilets. Need port-a-johns; need fishing piers on east side; ramp below dam is poor; need better description of portage routes. Toilets would be nice but not a problem No toilets. Don't have any toilets. Women have to leave and return to Rockingham if they need to go. |

| Location | Area of Concern | Comments |
|--------------------------|---------------------------------|--|
| Informal Tailrace Access | Toilets | <p>Would like restroom No bathrooms. No toilet facilities at Powerhouse. Would like to not have to leave the area to go to restroom Would be nice to have (toilet) in case of emergency Toilets except for women. Toilets and fishing piers are not provided therefore they are not adequate. All three (toilets, fishing pier and signs) do not exist for users at this lake. Toilets are needed around the Blewett access to prevent users from using the wall No public piers or restrooms are provided</p> |
| | Trash | Less trash |
| | Campground | <p>Public not allowed to camp on river anymore! Needs to be opened to public to camp. Need better facilities for camping; especially in and around the lake.</p> |
| | Parking | <p>Parking lot needs better grading; need campgrounds allowed somewhere The parking area and ramp need filling in and repair. The end of the ramp should be dug out so it can be used at periods of low water</p> |
| | Lake water levels/ fluctuations | Too low sometimes on Richmond County side. |
| | Signage | Did not see any informational signs. |
| | Fishing/ fish stock | More public fishing areas. Put up no drinking signs & enforce them, add on to walkway - extend out to water level indicator on east side of tailrace |
| | Pier/dock | Need bumper guards on docks; need better/more areas/cleaner campgrounds; need swimming/diving area |
| Informal SR 1744 Site | Toilets | <p>There are no toilets, no fishing piers and no trash cans. No facilities, needs dumpsters. Not enough boat trailer parking at old boat landing. No toilets period. Water levels are ridiculous. Need facilities for women and older folks. No toilets. Toilets are needed because women like myself cannot use the woods easily. Need toilets during active season Restrooms would be nice; signs saying no trash dumping; would like fishing pier. Women need a place to use the bathroom Need port-a-johns. Need to increase opportunities for elderly people who can't walk far. Signs are not adequate to find your way around if you don't know the area. Elderly people use this lake access and they need a restroom area.</p> |
| | Trash | Trash cans need to be put back because we will use them if they were here |
| | Boat ramp | <p>Some too steep. Not adequate for the old & new boat ramps (SR 1744) Boat ramp silted in and needs better ramp for unloading/loading boats</p> |
| | Campground | <p>We need to be able to camp like we used to Locals need more areas to camp; camping has been eliminated to boaters and that is not fair There is not a campground on this lake and it needs one. Same goes for toilets.</p> |

| Location | Area of Concern | Comments |
|---|-----------------------------------|---|
| Informal SR 1744 Site | Campground | Not enough camping areas No camping facilities, too much trash Not enough campgrounds and/or not right one's chose. Not enough camp areas. |
| | Parking | Parking lots washed out and needs to be leveled and filled; camping has been shut down to the public that doesn't have a boat and that's not right Roots; people just parking any way they please and most of them don't even care about if you can stay or not! As long as they get what they want Parking lot needs improvement |
| | Access | Needs to provide more places that bank fisherman can utilize. Disabled people cannot walk very far. |
| | Fishing/ fish stock | Would like fishing pier |
| | Signage | Needs additional signage for anglers |
| | Lake water levels/ fluctuations | Not good facilities for loading unloading boats – too shallow |
| Highway 109 | Parking | Very muddy parking and drive area at landing. Needs parking or crush and run rocking. |
| | Toilets | Need a toilet at boat ramp |
| | Campground | Need areas that are convenient for camping. |
| <i>Blewett Falls Lake – Activities Listed to Enhance Recreation Experience</i> | | |
| Blewett Access Area | Toilets | Toilets Need toilets at Powerhouse Rod holders fixed on safety rail for fisherman Bathrooms Need a boat ramp here on Hanson County side below Blewett Access. Bathrooms Provide public access to general generation times would help tail-water fishermen. This spot needs bathrooms so people won't urinate on the pier. Provide a bathroom to reduce open use or the wall or in the bushes. Restrooms/water Bathroom for kids and ladies Bathrooms |
| | Access | Easier access to river bank Access around to east side for pier fishing, toilets Fishing pier access is nice but it would be nice to get access to far point. |
| | Picnic/BBQ/ recreation facilities | Bathrooms and benches, picnic tables Drink machines would be convenient picnic tables Picnic tables along the water Picnic tables in the shade would be nice |
| | Lighting | Lights needed at boat ramp parking to protect vehicles |
| | Boat ramp | Put in boat ramp downstream m of the PH on Anson County side marina Add boat ramp at pump house or just downstream of it Boat ramp on Richmond County side of lake. |

| Location | Area of Concern | Comments | |
|------------------------|--|--|--|
| Blewett Access Area | Lake water levels/ fluctuations | For lake, designated camping area accessible for vehicles and on foot. Provide public access to pumping schedule Water. Provide pumping schedule so we know when to come fish A generating schedule would be nice for fishermen who plan their fishing around pumping schedules. | |
| | Campground | More camping places | |
| Pee Dee Access Area | Campground | Camping Better camping areas and toilets. | |
| | Toilets | Trash cans and toilets. Bathrooms are needed; lake is several miles from the nearest restroom Toilets, picnic tables. No toilets. Bathrooms | |
| | Marinas | Marinas Marina for food and gas. | |
| | Lighting | | Lighting around the parking lot would increase security Lights and garbage cans Lights in parking lot |
| | | | Add lights to parking lot Lighting around the parking lot needs to be improved to reduce theft. Lights around the access would be nice for security at night Lights in parking lot would increase safety Lights in this parking lot Lights in parking lot |
| | | | |
| | Parking | Parking lot could be bigger for holiday times Clean up some debris Parking in the Pee Dee access is out of order, spots need to be designated Lights in parking lot. | |
| | Boat ramp | When the water is low we need better ramps. Maintain water levels for spawning season. A light in the parking lot Fix holes on ramp; remove debris; add toilets; add fishing pier. Extend the ramp so that it can be used when the lake is low. The ramps need to be extended so they are usable during low water periods. It would be nice if the ramps would be kept clean of debris, as much as the water rises and falls debris clogs the ramps. | |
| | Debris/ maintenance | Clean up some of the floating debris (trees and trash). Mark stumps | |
| | Lake water levels/ fluctuations | Keep water up | |
| Fishing/fish stock | Plant fish in lake No improvements for recreation other than fishing. Keep it natural | | |
| Jet skis | Regulate the jet skis and limit them to main lake areas | | |
| Trash | Trash cans should be placed at boat ramps Trash cans Trash cans | | |

| Location | Area of Concern | Comments |
|----------------------------------|--------------------------------|---|
| Pee Dee Access Area | Access | Lot needs to be bigger, handicapped fishing pier Ramp access should be increased at the Pee Dee access during peak periods. Ramp access is too crowded Handicap access for wheelchair. |
| | Law enforcement/security | Have game warden check in occasionally to maintain a presence. Maybe more no trash signs. Regulate jug fisherman |
| Grassy Islands Access Area | Campground | Control water level for spawning and access Increase camping opportunities. |
| | Lake water levels/fluctuations | Phone number to find out about generation schedule Please provide the public with power production schedule so we can use the lake. Provide a pump schedule or a water level that fishermen can access before they make a trip to the lake. A pumping schedule that is accessible by the public and will not drop the lake levels to extreme levels Keep lake levels up Make water levels maintain a more constant level at this access point. Access to water level information would be nice. This access is not usable when the dam is generating – we need to know beforehand |
| | Pier/dock | Boat dock nearer Little River to get away from juggers; no more juggers |
| | Toilets | Would like to see a port-a-john Toilets would be a nice addition Water level fluctuations |
| | Fishing/ fish stock | Migratory fish passages/stock fish (baitfish) in lake. |
| | Signage | Update sign at boat ramp when outages occur |
| | Access | Deeper channel River bank need to be open to the public for fishing and over night camping |
| | Trash | Trash cans. Trash cans at boat ramp. Port-a-johns Trash cans |
| | Lighting | Lights in parking lot. Raise water level. |
| | Parking | Parking lot needs a light that is bulletproof |
| | Boat ramp | Better river/lake access (more points); better grass cutting at ramp |
| | Canoe Portage | Access |
| Restaurant/bait shop/store | | Bait shop |
| Picnic/BBQ/recreation facilities | | Grills, diving board, picnic tables Toilets; picnic tables; grills Water fountain; picnic facilities Concessions, drink machines (park), benches |
| Trash | | Trash cans Clean up area and add trash cans. Trash cans Provide trashcans to allow people places to dispose of trash. Trash cans. Trashcans Somewhere for people to dispose their trash. |

| Location | Area of Concern | Comments |
|-----------------------------------|--|---|
| Canoe Portage | Toilets | Bathrooms, easier access, picnic tables, parking lot |
| | Boat ramp | Marina on Blewett Falls, bathrooms here Improve landings |
| | Campground | Allowing camping at places that were traditional local camping sites Public camping areas need to be increased even if it would cost the users. More camping facilities. |
| | Recreation equipment rental | Trash cans; mountain bike course, bike & boat rentals; public park |
| Highway 74 | Fishing/ fish stock | Private fishing areas. |
| | Parking | During summer months parking lot is very crowded. |
| | Toilets | Port-a-johns, fix boat landing at dam |
| | Boat ramp | Work on boat ramp, better accessibility, trash cans |
| | Debris/ maintenance | Logs removed. |
| | Lake water levels/ fluctuations | Is there (a number) to call (when they are) to turn on the wheel at the dam |
| | Trash | Trash cans are needed Dumpsters. |
| | Recreation equipment rental | Canoe rentals |
| | Campground | Camping should not be regulated as much as it is |
| Picnic/BBQ/ recreation facilities | Something for kids. Picnic tables, port-a-john | |
| Tailrace | Boat ramp | Bad ramp; reopen other ramp at 74 bridge; trash cans Extend boat ramp Lights at tailwater camp and down along river |
| | Access | Maintaining this public access even if a small fee is needed; most public access around the lake is in bad shape. More access Trees and cover needs to be cut back so we can have enough bank access Opening a small passage from informal access to main river channel when water is low would be nice. Dredge a small 50ft opening. Please bring in back hoe to dig out the end of the informal access. It has filled with sediment in the past few years. Increase security around all access points. Progress Energy needs to open the tailrace walkway so users can have access to the opposite bank and adjacent point. |
| | Toilets | Bathroom Bathrooms and lights. Toilets Restrooms, lengthen the walkway to campsite on lake (as in build them) |
| | Trash | Add trash cans |
| | Campground | Designated camping area More camping opportunities. Camping |

| Location | Area of Concern | Comments |
|----------------|--------------------------------------|--|
| Tailrace | Lake water levels/ fluctuations | Sounding a horn when generating is about to begin will alert fishermen of changing water levels. Provide the public away to check the water levels and pumping schedule so they can use this resource. It would be nice to have a way to get the water levels before I drive out here to fish Water levels should not fluctuate to the extremes that they do. Provide generating schedule for the public so they will know when the water will be up or down |
| | Picnic/BBQ/ recreation facilities | Need some tables to eat on. Hiking trails |
| | Debris/ maintenance | Cleaning brush back and maintaining the roads would be a nice improvement. |
| SR 1744 | Toilets | Toilets. Bathrooms – showers Toilets and lights would be nice at every launch site. |
| | Trash | Trash cans are needed to keep people from dumping trash Trash cans. Trash cans need to be provided so the public has a place to dump trash Take care of trash |
| | Boat ramp | Boat ramp; dock; trash cans; toilets Extend the ramp at Pee Dee access so it can be used when water is extremely low |
| | Campground | Campsites available near boating facilities More camping areas Camping areas are needed for the public. Bath house; Camping, picnic areas you know like they've got at Morrow Mountain. We all know the river should be enjoyed not abused. |
| | Access | A public beach access would be nice for summer recreation. |
| | Debris/ maintenance | Have stumps marked better or removed. Make the lake a lot safer and more enjoyable. |
| Highway 109 | Boat ramp | Boat ramp between hydro dam and 109 bridge. |
| | Debris/ maintenance | Remove Snags |