

GLEN CANYON NATIONAL RECREATION AREA

VISITOR USE COUNTING AND REPORTING INSTRUCTIONS

Following are detailed instructions for collecting data and estimating visitor use statistics for **Glen Canyon National Recreation Area**. These instructions are effective the date of issuance and will continue in effect unless changed by agreement between the NPS Social Science Program and the Park Superintendent.

Recreation Visits

ANTELOPE POINT

A traffic counter is located on the road to Antelope Point.

BULLFROG

An inductive loop traffic counter is located on the entrance lane of Highway 276 near the junction of Burr Road. The total traffic count is reduced for non-reportable vehicles (0.02 percent) and non-recreation vehicles (see Table 2). The reduced vehicle count is multiplied by the PPV multiplier in Table 3.

ESCALANTE

1. A traffic counter (operated and maintained by BLM) is located on the Hole-in-the-Rock Road, just off State Highway 12 on BLM administered land. The traffic count is multiplied by 2.7 persons per vehicle.
2. Visitors entering through backcountry based on BLM permits.

HALLS CROSSING

1. An inductive loop traffic counter is located on the entrance lane of Highway 276 into the Halls Crossing District, one mile from the marina entrance. The total traffic count is reduced for non-reportable vehicles (see Table 1) and non-recreation vehicles (see Table 2). The reduced vehicle count is multiplied by the PPV multiplier in Table 3.
2. The number of San Juan River trip passengers taking out at Clay Hills based on BLM permits.
3. A magnetometer traffic counter is located on the road to Muley Point. The total traffic count is multiplied by the PPV multiplier in Table 3.

**Table 1
Non-reportable Vehicles by Month (Halls Crossing)**

MONTH	NON-REPORTABLE VEHICLES
January	61
February	61
March	61
April	63
May	150
June	180
July	180
August	180
September	162
October	108
November	61
December	61

HITE

1. An inductive loop traffic counter is located on the entrance lane of the Hite Access Road, off Highway 95. The total traffic count is reduced for non-reportable vehicles (0.02 percent) and non-recreation vehicles (see Table 2). The reduced vehicle count is multiplied by the PPV multiplier in Table 3.
2. An inductive loop traffic counter is located at Hite Overlook off Highway 95. The vehicle count is multiplied by the PPV multiplier in Table 3.
3. The number of river runners through Cataract Canyon based on permit counts from Canyonlands NP.
4. A magnetometer traffic counter is located on the road to Orange Cliffs. The traffic count is multiplied by the PPV multiplier in Table 3.

LEES FERRY

1. An inductive loop traffic counter is located on the entrance lane to the Lees Ferry District, off Alternate Highway 89. The traffic count is multiplied by the PPV multiplier in Table 3.
2. A trail counter is located at Horseshoe Bend.

WAHWEAP

1. A pneumatic tube traffic counter is located on Sunrise Point overlook road (Beer Can Hill).
2. An inductive loop traffic counter is located on North Lake Shore Drive.
3. An inductive loop traffic counter is located on the entrance lane at South Lake Shore Drive.
4. The number of vehicles on Smoky Mountain Road going to Warm Creek Bay and Alstrom Point. These vehicle counts are based upon traffic counts from BLM.

5. A pneumatic tube traffic counter is located on the dam overlook road.
6. A pneumatic tube traffic counter is located at the entrance to Chains. The traffic count is divided by two to account for entry and exit.
7. An inductive loop traffic counter is located on Lone Rock Road. The traffic count is divided by two to account for entry and exit.
8. A magnetometer traffic counter is located at the entrance to Beehives.

The sum of the traffic counts is reduced for the number of non-recreation vehicles (see Table 2) and non-reportable vehicles (0.02 percent). The reduced vehicle count is multiplied by the persons-per-vehicle (PPV) multiplier in Table 3.

**Table 2
Non-recreation Vehicle Multiplier by Month**

MONTHLY TIME PERIOD	NON-RECREATION VEHICLE MULTIPLIER
(March-May) (September-November)	0.02
(June-August)	0.01
(December-February)	0.03

**Table 3
Persons-Per-Vehicle Multiplier by Month**

MONTHLY TIME PERIOD	PPV MULTIPLIER WAHWEAP	PPV MULTIPLIER OTHER AREAS
(March-May) (September-November)	2	2.5
(June-August)	2.7	2.7
(December-February)	1.7	1.7

Non-Recreation Visits

1. A pneumatic tube traffic counter is located on Sunrise Point overlook road (Beer Can Hill).
2. An inductive loop traffic counter is located on North Lake Shore Drive.
3. An inductive loop traffic counter is located on the entrance lane at South Lake Shore Drive.
4. A pneumatic tube traffic counter is located on the dam overlook road.
5. A pneumatic tube traffic counter is located at the entrance to Chains. The traffic count is divided by two to account for entry and exit.
6. An inductive loop traffic counter is located on Lone Rock Road. The traffic count is divided by two to account for entry and exit.
7. An inductive loop traffic counter is located on the entrance lane of Highway 276 near the junction of Burr Road.

8. An inductive loop traffic counter is located on the entrance lane of the Hite Access Road, off Highway 95.
9. An inductive loop traffic counter is located on the entrance lane of Highway 276 into the Halls Crossing District, one mile from the marina entrance.

The sum of the traffic counts for 1 through 8 is reduced for non-reportable vehicles (0.02 percent); the traffic count in 10 is reduced for non-reportable vehicles in Table 1. The reduced traffic counts are converted to non-recreation vehicles using the factors in Table 2. The adjusted traffic count is multiplied by 2 persons per vehicle.

Recreation Visitor Hours

1. The total number of recreation visits, except for Navajo Bridge Interpretive Center and Horseshoe Bend, is multiplied by 6 hours per visit.
2. Visits to Horseshoe Bend are multiplied by 3 hours per visit.
3. Overnight stays at Wahweap, Bullfrog, Halls Crossing and Hite are multiplied by 21 hours per stay.
4. Overnight stays at Lees Ferry and Escalante are multiplied by 12 hours per stay.

Non-Recreation Visitor Hours

Non-recreation visits are multiplied by 12 hours per visit.

Overnight Stays

Concessioner Lodging – the number of overnight stays as reported by the concession operator

Antelope Point

- Houseboat rentals at Antelope Point Marina

Bullfrog

- Defiance House Lodge
- Stand-alone Family Units
- Houseboat rentals at Bullfrog Marina

Halls Crossing

- Stand-alone Family Units

Wahweap

- Lake Powell Resort at Wahweap
- Houseboat rentals at Wahweap Marina

Concessioner Camping – the number of overnight stays as reported by the concession operator

Antelope Point

- Lake Powell RV Park at Antelope Point Marina

Bullfrog

- Bullfrog RV Park & Campground

Halls Crossing

- Halls Crossing RV Park & Campground

Hite

- Ticaboo Resort Campground(s)

Wahweap

- Wahweap RV Park & Campground

NPS Campgrounds

Bullfrog

- The number of RV sites occupied at Stanton Creek Primitive Campground based on Iron Ranger registrations is multiplied by the PPV multiplier in Table 3

Hite

- The number of RV sites occupied at Iron Rangers Dirty Devil 1, 2, 3, and Farley Canyon primitive camping is multiplied by the PPV multiplier in Table 3

Lees Ferry

- The number of tent and RV sites occupied at Lees Ferry Campground is multiplied by the PPV multiplier in Table 3

Wahweap

- The number of RV sites occupied at Beehives Campground based on Iron Ranger registrations is multiplied by PPV multiplier in Table 3
- The number of tent and RV overnight stays at Lone Rock Beach Primitive Campground based on permits
 - Total overnight stays multiplied by 0.5 to estimate tent overnights
 - Total overnight stays multiplied by 0.5 to estimate RV overnights

NPS Backcountry

Escalante

- Overnight stays from backcountry permits

Hite

- Overnight stays at Orange Cliffs based on counts from Hans Flat Ranger Station in Canyonlands NP

NPS Miscellaneous

Antelope Point

- Private boat overnight stays – The number of private boats at Antelope Point based on AIS Ramp Surveys is multiplied by the persons per vehicle multiplier for Wahweap in Table 3 to estimate the number of visitors who stay overnight. The estimate of people staying overnight is multiplied by 2 nights per person November through February and 7 nights per person March through October.

Bullfrog

- Private boat overnight stays – The number of private boats at Bullfrog based on AIS Ramp Surveys is multiplied by the persons per vehicle multiplier for Wahweap in Table 3 to estimate the number of visitors who stay overnight. The estimate of people staying overnight is multiplied by 2 nights per person November through February and 7 nights per person March through October.

Wahweap

- Private boat overnight stays – The number of private boats at Wahweap Main launch ramp and Stateline launch ramp based on AIS Ramp Surveys is multiplied by the persons per vehicle multiplier for Wahweap in Table 3 to estimate the number of visitors who stay overnight. The estimate of people staying overnight is multiplied by 2 nights per person November through February and 7 nights per person March through October.

Halls Crossing

- Overnight stays by San Juan River runners at Clay Hills based on BLM permits