

Grenada Lake and Camp McCain



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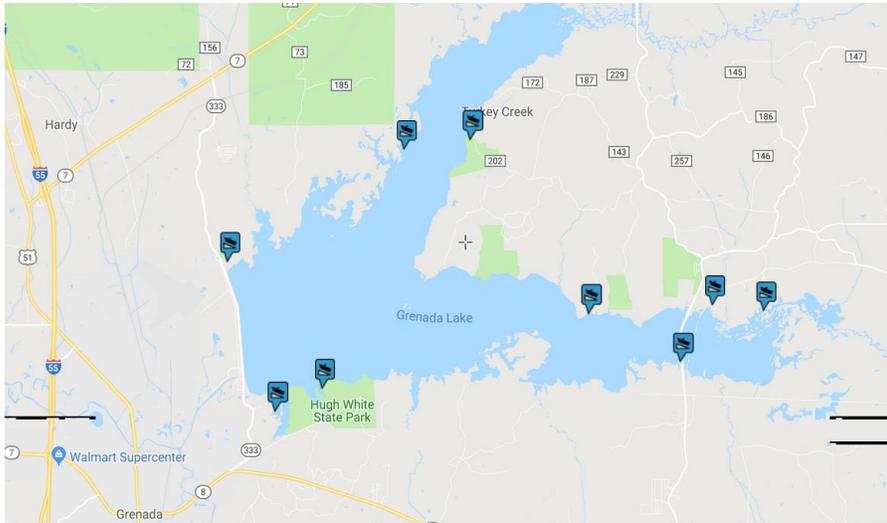
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Grenada Lake

Grenada Lake is a 148-mile shoreline reservoir on the Yalobusha River in Mississippi.

The lake was constructed and is owned by the U.S. Army Corps of Engineers and was originally constructed to help control flooding along the Yazoo River Basin (grenada.uslakes).

Map 1. Grenada Lake



Source: <http://grenada.uslakes.info/>

The lake has attracted visitors to its shore whom enjoy water-based and other outdoor recreational activities. The lake also hosts several fishing tournaments annually. The number of visitors (counted by cameras located at day-use areas around the lake) increased by 31.81 percent from 2015 to 2017 (personal conversation, February 20, 2018). The lake has shown double-digit growth over the last two years with 838,049 visitors in 2016, a 10.42 percent increase from 2015. Likewise, the 2017 visitor total of 1,000,381 was an increase of 19.37 percent compared to 2016. Visitors mainly arrived from all over the United States, Canada, the United Kingdom, Germany, etc.

Table 1. Visitors arrival to Grenada Lake

Year	Total	Change	% Change
2015	758,955	-----	-----
2016	838,049	79,094	10.42%
2017	1,000,381	162,332	19.37%

Source: Grenada Lake Field Office

Economic Impact of Grenada Lake in Grenada County and State of Mississippi

The most recent economic impact study of Grenada Lake was conducted between 2006 and 2008. The extensive study revealed valuable information that quantified the extent to which the lake supports jobs and businesses in the local economy, and an updated economic impact study would provide new insights for local planning purposes. Mississippi State University and Mississippi Cooperative Fish and Wildlife Research Unit completed a two-and-half year research of the economic impact of Grenada Lake. They collected the expense data from visitors who went fishing and participated in other activities associated with trips to Grenada Lake. Impact Analysis for Planning (IMPLAN) software was utilized to construct a model of the economy from January 1, 2006 to June 30, 2008.

After collecting the expenditure data, resident and non-resident expenditure profiles were developed to analyze in IMPLAN for the state and 3-county (Grenada, Yalobusha, Calhoun). While the economic impacts from fishing at Grenada Lake may seem limited relative to the state and 3-county economic impacts, they are still an important component of the economic base. For the 3-county region, 106 full and part-time jobs were supported, an important contribution for a rural region that supported less than 50,000 jobs in 2007. In conclusion, fishing was and still remains one of many activities on the lake and collectively all recreational activities. In addition

to the role used by the U.S. Army Corps of Engineers for impoundments, Grenada Lake is a vital economic, social and ecological component of the quality of life in this part of the state.

On the state level for the 2007-2008 fishing season, the total sales impact was \$11.77 million in Table 2, which supported 192 full and part-time jobs. The Social Accounting Matrix (SAM) multiplier for this analysis was 1.32, meaning that for every dollar spent in the state on fishing related expenditures at Grenada Lake there was an economic impact return of \$1.32. For the state-level analysis, the manufacturing sector had the highest sales impact (\$6.58 million) and included fishing equipment, clothes, food, and boating expenses. The manufacturing sector supplied the largest portion of the value-added (\$3.38 million) to Mississippi. Value-added impacts included employee compensation, proprietary income (e.g., income by the self-employed), other property income (e.g., interest), and indirect business taxes (e.g., sales, excise, and property taxes). The services sector had the second largest total sales impact and value-added in the state, estimated at \$4.49 million and \$2.18 million, respectively. This group included retail sales and hotel, lodging, and other accommodation expenses.

Table 2. 2006/2007 Total economic impacts based on state-wide expenditures from resident and non-resident anglers fishing at Grenada Lake, Mississippi during the fishing season

Industry	Direct Impacts	Secondary Impacts	Total Sale Impacts	Value Added	Employment #
AG, FORESTRY & FISHERIES	\$684	\$66,960	\$67,644	\$33,676	0
MINING	\$0	\$225,637	\$225,637	\$127,966	1
CONSTRUCTION	\$0	\$358	\$358	\$47	0
MANUFACTURING	\$4,605,824	\$1,975,135	\$6,580,959	\$3,388,892	105
TRANSP, COMM & UTILITIES	\$18,129	\$177,777	\$195,906	\$97,568	2
TRADE	\$0	\$147,090	\$147,090	\$81,262	2
Fi.I.R.E. ^a	\$0	\$63,773	\$63,773	\$30,333	1

SERVICES	\$3,423,073	\$1,069,092	\$4,492,165	\$2,188,495	80
	\$8,047,710	\$3,725,822	\$11,773,532	\$5,948,239	192

F.I.R.E. ^a Finance, insurance, and real-estate.

Source: A Social and Economic Analysis of the Recreational Fisheries in Mississippi Flood Control Reservoirs

Hugh White State Park

Map 2. Hugh White State Park



Source: <http://grenada.uslakes.info/POI/Golf-Courses/>

Hugh White State Park is located adjacent to the south side of Grenada Lake and provides facilities for recreational activities. There are many campgrounds located around the lake. The Dogwoods Golf Course is another attractive amenity to Hugh White State Park and also located near Grenada Lake. The golf course is touted as one of the best courses in the southeast. The average number of visitors to the Dogwoods Golf Course is 13,000 per year, of which 80% are from in-state and the left 20 percent is from out-state.

Visitors to Hugh White State Park increased by 8.85 percent in 2016 reaching a total of 38,183 (see Table 3) when compared to 2015 of 35,034 visitors. In-state visitors represented 62.60 percent of arrivals and out-state visitors account for 37.40 percent. In-state visitor arrivals contributed an estimated \$1.2 million to the economy in 2016. There was an 8.72 percent growth with in-state visitors in 2016 (23,902) when compared to 2015 (21,984). In the meantime, out-

state visitors have increase 9.43 percent in 2016 (14,281) when compared to 2015 (13,050) (personal conversation, February 20, 2018).

Table 3. Visitors arrival to Hugh White State Park

Year	In-State Visitors	Out-State Visitors	Total	Total Change	Total % Change
2015	21,984	13,050	35,034	-----	-----
2016	23,902	14,281	38,183	3,149	8.85%

Source: Mississippi State Parks Office

Camp McCain

Camp McCain is a Mississippi National Guard training site on 13,000 acres near Elliott. It annually provides training, administrative, engineering and operational support for units conducting individual and annual training for some 72,000 military personnel from all over the country. The facilities include tank maneuver areas and artillery ranges. In times of natural disaster or emergency, the camp also becomes a logistical base for defense support to civil authorities.

Garrison Commander
 Colonel Michael Cleveland
 He has a Bachelor of Science Degree from the University of Southern Mississippi

During World War II, the base covered over 42,000 acres in Grenada County. The facilities served as a prisoner of war camp and an Air Force bombing range. Most of the former site is now forest land within the Holly Springs National Forest.

Natural resource management has been a concern for the base. They have worked to address erosion on the tank and artillery training sites. Over the last 10 years they have implemented erosion control practices such as seeding and fertilization. Both techniques have proved effective to enhance wildlife habitat.

Base Realignment & Closure Commission (BRAC) is a concern. In 2005, the BRAC panel considered the closing of the Army National Guard Camp McCain training center in Grenada. In 2016, the readiness center in Grenada was selected for closure. As a result of the concerns of defense cutbacks, the Governor reestablished the Mississippi Military Communities Council to address concerns from BRAC.

Today, Camp McCain employs 155 and has an annual payroll of \$5.5 million. The camp provides ongoing positive economic impact to the regional economy by purchasing fuel, rations, and other supplies from area businesses throughout the year.

Map 3. Camp McCain



According to EMSI, the number of jobs increased by 5 from 2013 to 2017 in the industry of Federal Government, Civilian, Excluding Postal Service as shown in Table 4. Although this increase may include the average earnings (wages and benefits) is \$82,837 per job which is two times of the average earnings (\$40,684) in Grenada County (EMSI).

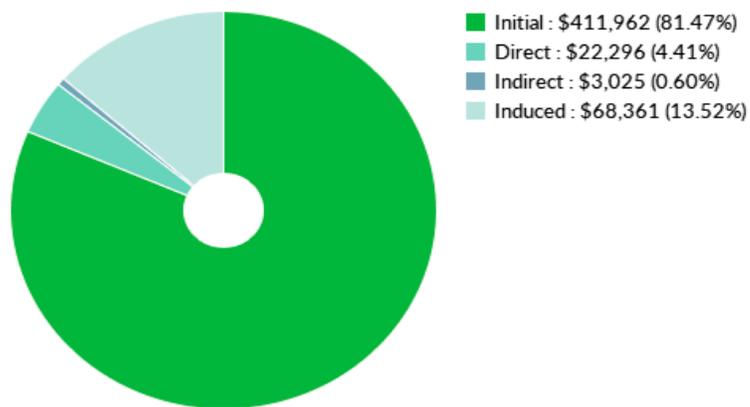
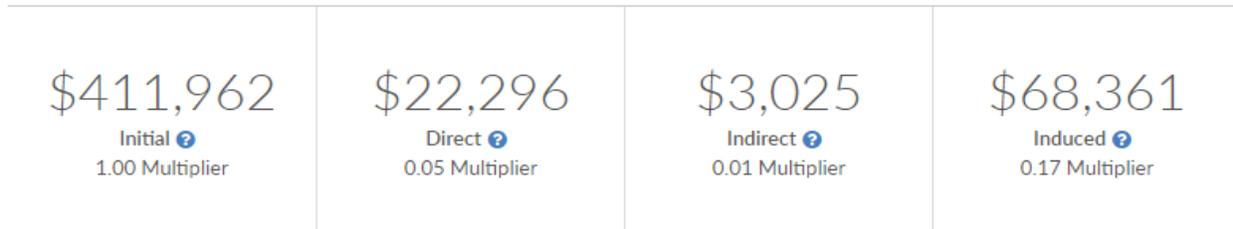
Table 4. Job change in Federal Government, Civilian, Excluding Postal Service

NAICS	Description	2013 Jobs	2017 Jobs	2013 - 2017 % Change	2017 Location Quotient	2017 Payrolled Business Locations	Avg. Earnings Per Job	Competitive Effect
901199	Federal Government, Civilian, Excluding Postal Service	150	155	3%	0.94	8	\$82,837	3

Source: EMSI

By adding 5 jobs in Federal Government, Civilian, Excluding Postal Service, effect on earnings will increase by \$505,642 which can breakdown into initial change (\$411,962), direct change (\$22,296), indirect change (\$3,025), and induced change (\$68,361) as shown in chart 1.

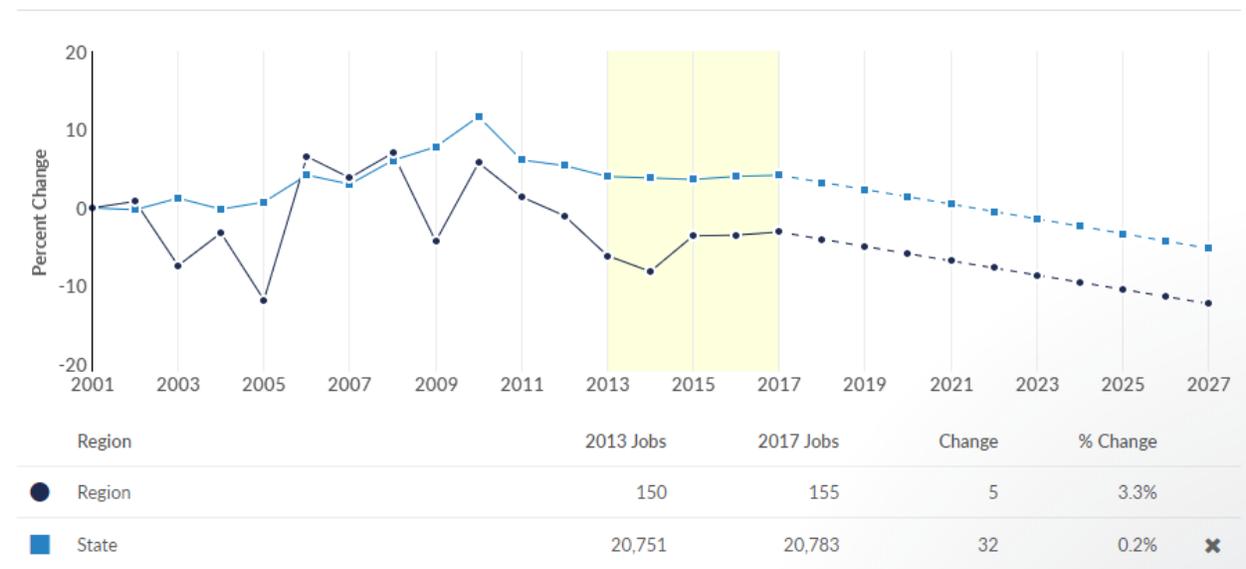
Chart 1. Effect on earnings from adding 5 jobs to Federal Government, Civilian, Excluding Postal Service



Source: EMSI

Chart 2 illustrates the industry of Federal Government, Civilian, Excluding Postal Service (NAICS 901199) performance data with state of Mississippi. Overall, this is a positive trend for Grenada, MS. The graph indicates during the period 2013-2017 Federal Government, Civilian, Excluding Postal Service jobs grew by 5-jobs or over 3.3 percent throughout Grenada, MS. In contrast, the total Federal Government, Civilian, Excluding Postal Service job growth in Mississippi is only about 0.2 percent.

Chart 2. Regional Trends of Industry (NACIS 901199)



References

1. Economic Modeling Software (2018)
2. <http://grenada.uslakes.info/>
3. <http://www.prweb.com/releases/2013/11/prweb11318416.htm>
4. <http://ms.ng.mil/resources/generalstaff/g6/daphotos/Documents/CpMcCain%20Directions.pdf>
5. Report: A Social and Economic Analysis of the Recreational Fisheries in Mississippi Flood Control Reservoirs